# Honeywell

# **Vocollect Hardware Summary**

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### **Published By**

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# Chapter

# Introduction

### **Topics:**

- General Safety Guidelines
- Cleaning Procedures for Honeywell Equipment
- Contact Information
- Patents and Intellectual Property

The Honeywell Hardware Documentation and Product Guides contain comprehensive information about hardware products and peripherals.

This document includes the following information:

- Safety information
- Hardware specifications
- Installation procedures, and basic operating instructions for Honeywell hardware and/or third party devices that are compatible with Honeywell software
- Part numbers
- Regulatory and compliance statements
- Troubleshooting guidance

### Audience

This document is intended to be used as a reference resource by authorized resellers, sales representatives, customers, and users of the hardware.

### **General Safety Guidelines**

Follow these guidelines when working with Honeywell electrical equipment:

- Grounded equipment must be plugged into an outlet, properly installed, and grounded in accordance with all codes and ordinances.
- Never remove the grounding prong or modify the plug in any way.
- Do not use plug adapters.
- Check with an approved tester or qualified electrician if you believe an outlet may not be properly grounded.
- Keep all electrical connections dry and off the ground.
- Do not expose electrical equipment to rain or wet conditions.
- Do not touch plugs or tools with wet hands.
- Do not abuse the cords; do not carry equipment by its cord and never pull a cord to remove its plug from an outlet. Keep the cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately.
- Use only approved extension cords.

When using a scanning device or imager, do not look directly into the beam.

### **Statement of Agency Compliance**

Honeywell Vocollect Solutions devices and wireless headsets are designed to be compliant with the rules and regulations in the locations into which they are sold and are labeled as required. Honeywell devices are type approved and do not require the user to obtain license or authorization before using them. Changes or modifications not expressly approved by Honeywell could void the user's authority to operate the equipment.

### **Honeywell Battery Safety**

Improper use of the battery may cause heat, fire, explosion, damage, or reduced battery capacity. Read and follow the handling instructions for the battery before and during use.

The following are general cautions and guidelines only, and as such may not include every possible usage scenario. The manufacturer will not be liable for actions taken or accidents caused by any use not documented below.

### Warning:

- Do not disassemble, open, drop (mechanical abuse), crush, bend, deform, puncture, or shred a battery.
- Do not modify or remanufacture, attempt to insert foreign objects into a battery, immerse or expose to water or other liquids, or expose to fire, excessive heat including soldering irons, or put in a microwave oven.
- Only use a battery in the device for which it is specified.
- Improper battery use may result in a fire, explosion or other hazard.
- Do not short-circuit the battery or allow metallic or conduction objects to touch any of the battery contacts simultaneously.
- Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard.
- Always replace a battery in a clean, dry environment.
- Unit should be turned off when replacing its battery.
- In the event of a battery leak, do not allow the liquid to come in contact with skin or eyes. If contact is made, flush the affected area with large amounts of water and seek immediate emergency medical advice and care.
- Seek medical advice immediately if a battery is swallowed.
- If at any time you witness a battery starting to distend or swell, smoke, or become hot to the touch, discontinue the charging process immediately and disconnect the battery and charger. Observe it from a safe place, preferably outside of any building or vehicle for approximately 15 minutes.

- Dispose used batteries promptly according to the local, state and/or federal regulations. Requirements and options vary greatly in different countries and in different parts of the United States. Many locations have facilities or companies set up for receipt of old batteries.
- Honeywell batteries should not be used by children.
- Honeywell shall not be held responsible for any damages caused by equipment malfunction when used with non-Honeywell batteries.
- Honeywell shall not be held responsible for any damages caused by equipment malfunction when using a non-Honeywell charger.

### **CAUTION:**

- When a battery is expected not to be used for a long period of time, take it out the equipment or device and store at room temperature with normal humidity.
- Do not leave a battery connected to the charger for long periods of time. It may cause degradation of battery performance, such as a shortening of battery life. It should be removed from the charger and stored as recommended above.
- Power off your equipment when not in use.

### **Handling Used Batteries**

- When shipping batteries, place tape or insulating material securely over the battery contacts to avoid accidental contact in transit. Honeywell batteries can be shipped under Special Provision 188 of 49 CFR 172.102 or IATA exception A45.
- Never disassemble a battery.
- Do not leave a battery under strong sunshine, or expose a battery to rain or water.
- Store batteries in a rugged receptacle and cover with a lid.

### **Cleaning Procedures for Honeywell Equipment**

Honeywell Solutions products have a long service life if they are maintained properly. Follow recommended cleaning practices.

While Honeywell equipment is manufactured and tested to be resistant to normal dirt and deposits from the workplace environment, the build-up of residue can damage the equipment and degrade performance over time.

- Dirt or corrosion can prevent the proper seating of terminals in chargers and may cause intermittent charging.
- Talkman<sup>®</sup> Connector (TCO) contacts that build up dirt, chemicals, and corrosion may cause intermittent contact, static, and recognition problems.
- · Excessive dirt on a keypad membrane can cause the membrane to weaken and tear.
- (!) **CAUTION:** Use **only** a solution of 70% isopropyl alcohol and water to clean equipment. Other products have not been tested and may degrade the equipment.

### **Cleaning Plastics**

### **Cleaning Hard Plastics**

Clean the hard plastics on headsets, devices, chargers, and batteries with a soft cloth that is wet with a solution of 70% isopropyl alcohol and 30% water.

Use a soft brush to keep the pocket areas of chargers free of dust and debris that may interfere with the seating of equipment or electrical contact.

### **Cleaning Foam and Pliable Plastics**

Clean headset foam parts (ear pads and headband pads) as well as flexible bands and non-foam padding with a mild soap and water. Wash pads carefully so as not to tear or detach them.

Air dry the parts. Use of a concentrated heat source such as a hairdryer or clothes dryer is not recommended.

Replace pads that are excessively dirty, such as headset windscreens.

### **Cleaning Contacts**

Clean flat contacts on the device, such as the Talkman Connector (TCO), or flat contacts on the battery and charger with a 70% isopropyl alcohol solution.

Use a soft, lint-free cloth or premoistened alcohol wipe. Avoid using a cloth with long or thick fibers as the fibers can attach to the connectors and cause intermittent contact.

Remove corrosion with a soft eraser (for example, a pencil eraser). The eraser must be in good condition (soft, pliable, and not worn down to the mounting). A good test is to rub the eraser against your skin. If it feels abrasive, do not use it, because it will damage the surface of the connectors.

You can also use a three-row cleaning brush with natural hog hair bristles to gently brush away dirt on the contacts. A final alcohol wipe after this should ensure a clean contact.

Never bend or manipulate battery contacts.

Contact an authorized Honeywell Service Center to repair or replace contacts that are extremely corroded, bent, or missing.

### **Contact Information**

#### **Documentation Feedback**

Your feedback is vital to our documentation efforts. If you have difficulty with any of the procedures described in this document, contact Honeywell Vocollect Technical Support.

Find most technical documentation on VoiceWorld, https://www.voiceworld.com.

#### Honeywell Vocollect Reseller Services

If you purchased equipment or services through a Honeywell Vocollect reseller, please contact that reseller first for support or purchase questions.

#### Honeywell Vocollect Technical Support

Submit incidents or questions to http://vocollect.custhelp.com or contact Honeywell Vocollect Technical Support:

United States Phone: +1 866-862-7877 Email: vocollectsupport@honeywell.com

Americas (outside U.S.), Australia, New Zealand Phone: +1 412-829-8145, option 3, option 1 Email: vocollectsupport@honeywell.com

Europe, Middle East, Africa Phone: +44 (0) 1628 55 2902 Email: vocollectEMEA@honeywell.com

Japan and Korea Phone: +813 6730 7234 Email: vocollectJapan@honeywell.com

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#### **United States**

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#### Americas (outside U.S.), Australia, New Zealand Phone: +1 412-829-8145, option 3, option 2

Email: vocollectRequests@honeywell.com

#### Europe, Middle East, Africa Phone: +44 (0) 1628 55 2903 Email: vocollectCSEMEA@honeywell.com

#### Japan and Korea

Phone: +813 6730 7234 Email: vocollectJapan@honeywell.com

#### Honeywell Vocollect RMA

To return equipment for repair, contact Honeywell Vocollect RMA to request an RMA number: Email: vocollectRMA@honeywell.com

#### **Sales and General Inquiries**

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### **Patents and Intellectual Property**

For patent information, see *http://www.hsmpats.com*.

## Chapter

# 2

## **Talkman Devices and Headsets**

### **Topics:**

- Turning a Talkman Device On
- Turning a Talkman Device Off
- Part Numbers: Vocollect
   Talkman Devices
- Part Numbers: Talkman
   Accessories
- Part Numbers: Talkman MP
   Solutions
- Part Numbers: Wired Headsets
- Part Numbers: Wireless
   Headsets
- Part Numbers: Wireless Headset Accessories
- Part Numbers: Chargers

Vocollect Talkman<sup>™</sup> devices are wearable terminals used with Vocollect headsets to enable voice-directed work. Operators listen to instructions from these devices to perform tasks such as warehouse order picking and factory floor inspection, and then speak simple phrases to enter data.

All Talkman devices leave the operator's hands free to inspect items, pick products, drive vehicles, or repair defects.

# Talkman A700 Product Family, A500, T5-series, and T2-series devices

These device models are rugged terminals designed for industrial use. These devices attach to a customized belt or shoulder harness, depending on device type, equipped with a specially designed clip.

The Talkman A500 VMT (Vehicle Mounted Talkman) and T5 VMT are A500 and T5 devices with battery adapters mounted to a warehouse vehicle, such as a forklift. After the device is mounted, the battery adapter is placed in the battery area of the device and connected to the vehicle's power source.

### Talkman T1

The Talkman T1 has been specifically designed for light-duty, light-industrial environments. Talkman T1 device is a lighter, lower-cost alternative to the T2-series, T5-series, A500, and A700-series devices. It is intended for work in areas where you don't require an extremely rugged device. Talkman T1 devices fit into a customized holster with belt clip.

### **Speech Recognition Headsets**

A Vocollect speech recognition headset with an attached microphone allows the operator to hear the device's instructions or questions. The operator talks to the device to request information and enters data by responding to the device's prompts.

Using Vocollect Adaptive Speech Recognition<sup>™</sup>, the headsets account for changes in speaking patterns over time and in different environments in order to improve voice recognition and system performance.

### **Product Use and Care**

- Talkman devices are assembled under strict Honeywell manufacturing guidelines. Tampering with a device in any manner will void published operating specifications and may void the product warranty.
- When the Talkman is not in use, it should be placed properly into a charger.

- Never remove the battery from a Talkman device unless it has been properly powered off.
- Talkman devices are designed to be worn on the right side of the body with the device's buttons on the top (T5-series, T2-series, A500, A700-series) or facing front (T1) and its connectors toward the operator's back (A500, T5-series, T2-series, A700-series) or pointed up (T1).
- The Talkman T1 must be holstered with the holster opening facing up. Holstering with the opening facing down or to the side places the unit at risk for dropping.
- Always use pads and windscreens with Honeywell headsets to protect the equipment and ensure optimum speech recognition performance.
- Honeywell recommends changing headset windscreens every 90 days to ensure the best performance.
- (!) **CAUTION:** Use **only** a solution of 70% isopropyl alcohol and 30% water to clean the hard plastics on equipment. Other products have not been tested and may degrade the equipment.



### **Turning a Talkman Device On**

Before you turn on a device, make sure a headset and charged battery are properly connected to it.

1. Press the Play/Pause button on the device.

The LED indicator differs depending on the device being used.

Device Type	Indicator
A700 series	The ring is yellow and rotates, then the ring segment turns solid green.
T2 series, T5 series and A500	First turns solid red while the processor reboots. It then flashes red and green, turns solid, blinks red, then turns solid green.
T1	Turns solid green

- 2. The device says, "Current operator is *operator name*. Please keep quiet for a few seconds." The device then starts a noise sample.
- **3.** After a brief pause, it says, "Please wait." After another pause, the device begins asking questions or providing instructions.

### **Turning a Talkman Device Off**

Use a button control to properly power off the Talkman device. In some cases, the device turns off automatically. In rare cases, a forced reset may be necessary. After the device is fully turned off, you can reboot it.

### Powering Off by Using the Play/Pause Button

Press and hold the **Play/Pause** button until the LED indicator turns red. The device will store any data that has not been transmitted. After a few seconds, the device says, "Powering off." The device turns off, and the LED indicator light goes out.

### (I) CAUTION:

- Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.
- You should not turn off the device if the LED indicator is blinking red (A500, T5-series and T2-series) or has a rotating red ring (A700), unless it has been blinking red or rotating red for several minutes. If a device is turned off in this state, it may not be ready to use when it is turned back on.

### Powering Off Due to Inactivity

If the device's software detects no device activity for a specified length of time, it powers off automatically.

### Powering Off Due to Low Battery Levels

If the device's software detects that the current battery level is critically low, it powers off automatically.

### **Booting a Device After Powering Off**

If a device was properly powered off, it does the following operations after a battery is placed into the device and the Play/Pause button is pressed:

- Performs a background noise sample
- Continues operation at the place in the task where you left off
- Transfers any templates to the host that had not been sent prior to powering off

- Transfers any output data records to the host that had not been sent prior to powering off
- Transfers any lookup tables to the device that had not been received from the host prior to powering off

### **Forced Reset**

This type of reset is invoked by removing the battery from the device without properly powering it off first.

() CAUTION: Perform a forced reset only as a last resort. If you reboot a device in this manner:

- the contents of its memory, including any data collected, will be lost
- the device starts over at the beginning of the task
- if you are in the process of retraining vocabulary, the device will send all vocabulary word templates to the host computer when the device is turned back on. Do not do anything until the templates have been sent to the host.

When the battery is replaced and the device is turned back on, it boots and attempts to load the current task and operator. Once the task and operator have successfully loaded, the device behaves identically to a one that has just had a new task or operator loaded.

### Part Numbers: Vocollect Talkman Devices

Device	Honeywell Part Number
Talkman A700 Base Unit	TT-900
Talkman A710 (for Bluetooth Headsets and Peripherals)	TT-910
Talkman A720 (with two Talkman Connectors)	TT-920
Talkman A730 (with Integrated Scanner)	TT-930
Talkman A500 (a/b/g)	TT-800
Talkman A500 (b/g)	TT-801
Talkman A500 (a/b/g/n)	TT-802
Talkman T5m	ТТ-700-100-М
Talkman T5	TT-700
Talkman T2 <i>x</i>	TT-601
Talkman T1	TT-100

### Part Numbers: Talkman Accessories

Accessory	Honeywell Part Number
A700 Device Belt	BL-801-X
A700 Device Standard Holster (for A710 and A720)	BL-901
A700 Device Scanner Holster (for A730)	BL-902
T5/A500 Cover	EO-700-1
T2 Series Device Cover	TC-601-1

Accessory	Honeywell Part Number
T5/A500 Shoulder Harness	Hl-700-1
T5/A500 Belt with Clip	BL-700-1 - BL-700-7
T5/A500 Clip	BL-700-101B
	(For use with BL-700-1 - BL-700-7 and HL-700-1)
T2 Belt with Clip	Belts: BL-601-101-7
T2 Clip	BL-602-101
T1 Holster	BL-100-101
A700 High Capacity Battery	BT-902
A700 High Capacity Battery, Box of 24	BT-902-100B
A700 Standard Battery	BT-901
A700 Standard Battery, Box of 24	BT-901-100B
A700 Maintenance Cable, USB micro-B to Type A	RS-900-1
A500 High-Performance Battery	BT-700-2
A500 High-Performance Battery, Box of 50	BT-700-2-101B
T2 Series Standard Battery	BT-601
T2 Series High-Capacity Battery	BT-602
T2 Series High-Capacity Battery, Box of 25	BT-602-101B
T1 Standard Battery	BT-101
A700 Unpowered Vehicle Dock	BL-903
Vehicle Mount, Holder, Talkman A500 Series	BL-710-1
Vehicle Mount, Holder/Base Screw On Attachment, Talkman A700 and A500 Series	BL-710-101
Vehicle Mount, Arm, Talkman A700 and A500 Series	BL-710-102
Vehicle Mount, Clamp, Talkman A700 and A500 Series	BL-710-103
Vehicle Mount, Clamp, RAM Tough-Claw, Talkman A700 and A500 Series	BL-710-104
Battery Adapter, DC-DC, Talkman A500 Series	BT-710
Cable, Battery Adapter, Push On, Talkman A500 Series	CM-710-102
Power Supply, 9-36 VDC Input	CM-710-110
Power Supply, 18-60 VDC Input	CM-710-111

### Part Numbers: Talkman MP Solutions

Device	Honeywell Part Number
Talkman MP	TM-CN70-01
(Includes: 1 Intermec CN70-CN70AN3KN00W1100, 1 Vocollect SRX2 Wireless Bluetooth Headset and Battery, 1 Vocollect VoiceClient MP license, 1 Vocollect VoiceConsole license)	
Available in EMEA countries only.	
<b>Note:</b> CN70 and SRX2 battery chargers are sold separately.	

### Part Numbers: Wired Headsets

Part	Part Number
SR-40 Vocollect Dual-Cup Headset	HD-705-1
SR-35 Vocollect Hard-Hat Headset	HD-704-1
<b>Note:</b> The SR-35 Headset can only be used with a hard hat that has a slot on the side that accepts a Peltor clip. This clip is sold separately by Honeywell(part number HD-704-101) and is required with each SR-35 headset.	HD-704-2 (coiled cord)
SR-31 Vocollect Universal High-Noise Headset	HD-703-1
SR-30 Vocollect High-Noise Headset	HD-702-1
SR-21 Vocollect Universal Headset	HD-701-1(right-angle connector)
SR-20 Vocollect Lightweight Headset	HD-700-1 HD-700-2 (coiled cord)
SR-15 Behind-the Head Headset	HD-708-1
SL-14 Vocollect Light Industrial Behind-the-Head Headset	HS-708-14-R (right ear) HS-708-14-L (left ear)
SL-4 Vocollect Light Industrial Behind-the Head Headset, Right Ear, Straight Cord, for Talkman T1	HS-708-4-R (right ear) HS-708-4-L (left ear)
SL-4 Vocollect Light Industrial Behind-the-Head Headset With Training Cable for Talkman T1	HS-708-100-R (right ear)

### Part Numbers: Wireless Headsets

Part	Part Number
SRX Speech Recognition Headset Complete	HD-800-1
(SRX is not supported with WT41N0 Wearable Terminal)	

HD-1000-105B

Part	Part Number
SRX2 Headset 1 Complete Headset, 1 Battery (1 headband, all pads and strap, 1 electronics module, 1 battery, 1 mic cap)	HD-1000-1
SRX2 Headset Bundle, 20 Complete SRX2 Headsets, 20 Batteries, 1 20-Bay Charger (20 headbands, 20 electronics modules, 20 batteries, 20 mic caps, 20 ear pads preassembled, 1 charger)	HD-1000-20
SRX2 Hard Hat Headset	See Part Numbers: Wireless Headset Accessories
SRX2 High Noise Headset	See Part Numbers: Wireless Headset Accessories

### Part Numbers: Wireless Headset Accessories

SRX2 Ear Pads (Bag of 20)

Part (SRX Wireless Headset)	Part Number
(SRX is not supported with WT41N0 Wearable Terminal)	
SR-Series Windscreen (Bag of 25)	HD-700-102b
SRX Foam Ear Pads (Bag of 25), also fits SR-20	HD-700-107b
SRX Headband Pads (Bag of 30), also fits SR-20, SR-30, SR35, SR-40	HD-700-109b
SRX Maintenance Kit (50 foam ear pads, 25 ear pad mounting disks)	HD-800-105b
SRX T-Bar Pad Replacement (Bag of 25)	HD-800-106b
SRX Mounting Disks (Bag of 10)	HD-800-108b
SRX Stabilizer Strap	HD-800-110
SRX Stabilizer Strap (Bag of 10)	HD-800-110b
SRX Maintenance Kit (15 foam ear pads, 5 ear pad mounting disks, 30 headband pads)	HD-801-101
SRX Battery, High Performance	BT-800-1
SRX Battery Charger, Single-Bay (includes power supply)	CM-800-1
SRX Battery Charger, 5-Bay (includes power supply)	CM-801-1
SRX Charger Power Supply, Single-Bay	CM-800-101
SRX Charger Power Supply, 5-Bay	CM-801-101
Part (SRX2 Wireless Headset)	Part Number
SRX2 Electronics Module	HD-1000-101
SRX2 Headband with Stability Strap (not assembled)	HD-1000-102
SRX2 Microphone Caps (Bag of 20)	HD-1000-104B

Part (SRX2 Wireless Headset)	Part Number
SRX2 Comfort Pads (Bag of 20)	HD-1000-106B
SRX2 T-Bar Pads (Bag of 20)	HD-1000-107B
SRX2 T-Bar Pads #2 (Bag of 20)	HD-1000-140B
SRX2 Stability Straps (Bag of 20)	HD-1000-108B
SRX2 Hard Hat Headset Clip, Slotted Mount	HD-1000-110
SRX2 Hard Hat Headset Clip, Non-slotted/Brim Mount	HD-1000-111
SRX2 Hard Hat Headset High Noise Earcup (Requires hard hat clip, fork attachment, electronics module, and battery)	HD-1000-112
SRX2 High Noise Headset High Noise Headband with Earcup (Requires electronics module and battery)	HD-1000-113
SRX2 High Noise/Hard Hat Headset Mounting Disks (Bag of 10)	HD-1000-114B
SRX2 Hard Hat Headset Clip, Fork Attachment to Cup	HD-1000-115
SRX2 Headset Foam Earpads #2 with Mounting Disks (20 Earpads Assembled With Mounting Disks)	HD-1000-125B
SRX2 Headset Foam Earpads #3 with Mounting Disks (20 Earpads Assembled With Mounting Disks)	HD-1000-126B
SRX2 Battery	BT-1000
SRX2 Battery (box of 20)	BT-1000-101B
SRX2 20-Bay Charger	CM-1000-20
SRX2 Micro USB Cable	CM-1000-101

## Part Numbers: Chargers

Charger - Device	Vocollect Part Number
A700 6-Bay Device Charger and Power Supply	CM-901
A700 12-Bay Battery Charger and Power Supply	CM-902
A700 Charger Power Supply	CM-901-101
A700 Charger Mounting Rail	CM-1000-20-101
T5/A500 10-Bay Combination Charger	CM-700-1
T5/A500 Single-Bay Combination Charger	CM-700-2
T2 Series Charger	CM-601-1
T2 Series Battery Charger	CM-602-1
A500 Charger, Power Supply	(For use with CM-700-1)
T2 Series Charger, Power Supply	PS-601-1
	(For use with CM-601-1 & CM-602-1)
A500 10-Bay Combination Charger Mounting Bracket	CM-701-1

Charger - Device	Vocollect Part Number
	(For use with CM-700-1)
T2 Series Single Charger Stand	(For use with CM-601-1)
T2 Series Charger Wall Mount Kit, Multiple Chargers	CM-604-1
	(For use with CM-601-1)
T1 10-Bay Combination Charger	CM-100
T1 Single Charge Cable and Power Adapter	CM-103

Charger - Headset	Honeywell Part Number
SRX 5-Bay Battery Charger	CM-801-1
(SRX is not supported with WT41N0 Wearable Terminal)	
SRX Single-Bay Battery Charger	CM-800-1
(SRX is not supported with WT41N0 Wearable Terminal)	
SRX2 20-Bay Battery Charger	CM-1000-20, HCG1000-01, HCG1000-02
SRX2 6-Bay Battery Charger	CM-1000-06, HCG1000-06
SRX2 Charger DIN Rail, 550 mm length	CM-1000-20-101

# Chapter

# 3

# Talkman A700

### Topics:

- A710 Specifications
- A720 Specifications
- A730 Specifications
- Charging an A700 Device
   Battery
- Scanning with the Talkman A730 Device
- About LED Indicators
- TouchConfig: Bringing
   Additional A700 Devices Online
- Installing the USB Driver on Windows XP
- Installing the USB Driver on Windows 7 or Vista
- Collecting Platform Debug Logs
   from A700 Devices
- Accessories





### Figure 1: Talkman<sup>™</sup> A700 Devices

The Talkman<sup>™</sup> A700 solution is a set of voice-centric appliances, each of which is a unique tool designed for a specific set of distribution center workflows, so each customer can pick the best tools for its needs. Each member of the A700 solution has a USB port that is used for maintenance, loading software, and connecting supervisor audio. The different appliances share the same standard platform. The A700 devices can integrate into various IT environments, provide an advanced battery management solution, and help customers keep better track of their devices.

The A710 is designed for use with Bluetooth wireless headsets and peripherals.

The A720 has two Talkman connectors for attaching wired headsets (yellow port) and wired peripherals (red/blue port).

The A730 has an imager designed for light scanning (10 to 15 scans per hour). The design supports common use cases such as tote induction or capturing the weight of specific products.

All three devices have maintenance ports that can be connected to a computer with a standard USB cable.

These devices are described in more detail in the following sections.

### **A710 Specifications**

Weight	5.6 ounces (158.76g)
	With standard battery: 8.4 ounces (238.14g)
	With high-capacity battery: 10.2 ounces (289.17g)
Length	5.4" (13.7 cm)
Width	2.5" (6.35 cm)
	With high-capacity battery: 3.046" (7.74 cm)
Depth	1.7" (4.32 cm)
I/O Ports	USB maintenance port with audio out and virtual serial support
Operating Temperature	-22° to 122° F (-30° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	Meets MIL-STD-810F method 514.6
	In addition, the device has been tested to the following specifications:
	• 24 drops at 5 feet (1.5m) to steel
	• 12 drops at 6 feet (1.8m) to steel
Humidity	100% condensing
Enclosure Rating	IP67

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

### **A720 Specifications**

Weight	5.8 ounces (166.81g)	
	With standard battery: 8.7 ounces (247.09g)	
	With high-capacity battery: 10.5 ounces (298.61g)	
Length	5.9" (14.99 cm)	
Width	2.5" (6.35 cm)	
	With high-capacity battery: 3.046" (7.74 cm)	
Depth	1.7" (4.32 cm)	
I/O Ports	<ul> <li>USB maintenance port with audio out and virtual serial support</li> <li>Headset port (yellow)</li> <li>RS232 serial TCO connector (red/blue)</li> </ul>	
Operating Temperature	-22° to 122° F (-30° to 50° C)	

Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	Meets MIL-STD-810F method 514.6
	In addition, the device has been tested to the following specifications:
	• 24 drops at 5 feet (1.5m) to steel
	• 12 drops at 6 feet (1.8m) to steel
Humidity	100% condensing
Enclosure Rating	IP67

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

### **A730 Specifications**

	·
Weight	6.65 ounces (188.39g)
	With standard battery: 9.5 ounces (268.67g)
	With high-capacity battery: 11.3 ounces (320.2g)
Length	5.9" (14.99 cm)
Width	2.5" (6.35 cm)
	With high-capacity battery: 3.046" (7.74 cm)
Depth	1.7" (4.32 cm)
I/O Ports	Maintenance port with audio out
Operating Temperature	-8° to 122° F (-20° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	Meets MIL-STD-810F method 514.6
	In addition, the device has been tested to the following specifications:
	• 24 drops at 5 feet (1.5m) to steel
	• 12 drops at 6 feet (1.8m) to steel
Humidity	100% condensing
Enclosure Rating	IP67

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

### Talkman A730 Symbologies

Registry Key	Default Value	Description
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Postnet] - Postnet Symbology Configuration		
PostnetActivation	0x0	Enables the Postnet symbology.

Registry Key	Default Value	Description	
PostnetCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
PostnetCheckDigitTransmission	0x1	Enable transmission of the check digit.	
PostnetUDSI	"P0"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Planet] - Planet Sy	mbology Configuration	
PlanetActivation	0x0	Enables the Planet symbology.	
PlanetCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
PlanetCheckDigitTransmission	0x1	Enable transmission of the check digit.	
PlanetUDSI	"P1"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\BPO] - BPO Sym	pology Configuration	
BPOActivation	0x0	Enables the British Post Office symbology.	
BPOCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
BPOCheckDigitTransmission	0x1	Enable transmission of the check digit.	
BPOUDSI	"P2"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Canada Post] - Canada Post Symbology Configuration			
CanadaPostActivation	0x0	Enables the Canada Post symbology.	
CanadaPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
CanadaPostUDSI	"P6"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Australian Post] - Australian Post Symbology Configuration			
AustralianPostActivation	0x0	Enables the Australian Post symbology.	
AustralianPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
AustralianPostUDSI	"P3"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Japan Post] - Japan Post Symbology Configuration			
JapanPostActivation	0x0	Enables the Japan Post symbology.	
JapanPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
JapanPostCheckDigitTransmission	0x1	Enable transmission of the check digit.	
JapanPostUDSI	"P5"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Dutch Post] - Dutch	ch Post Symbology Configuration	
DutchPostActivation	0x0	Enables the Dutch Post symbology.	
DutchPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
DutchPostUDSI	"P4"	User-defined symbology identifier. Range is 0-4 characters.	

Registry Key	Default Value	Description	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Sweden Post] - Sweden Post Symbology Configuration			
SwedenPostActivation	0x0	Enables the Sweden Post symbology.	
SwedenPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
SwedenPostUDSI	"P7"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\Infomail] - Infoma	il Symbology Configuration	
InfomailActivation	0x0	Enables the Infomail symbology.	
InfomailCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
InfomailUDSI	"P8"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\Intelligent Mail] -	Intelligent Mail Symbology Configuration	
IntelligentMailActivation	0x0	Enables the Intelligent Mail symbology.	
IntelligentMailCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
IntelligentMailUDSI	"PA"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\Codabar] - Codaba	ar Symbology Configuration	
CodabarActivation	0x0	Enables the Codabar symbology.	
CodabarCodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
CodabarCheckDigitVerification	0x0	Enables calculation of the check digit.	
CodabarBarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
CodabarBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
CodabarBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
CodabarBarCodeLengthMode	0x0	Length verification mode, where $0 = "L1$ is min length", $1 = "L1, L2, L3$ are fixed lengths", and $2 = "L1$ is min, L2 is max length".	
CodabarCheckDigitTransmission	0x0	Enable transmission of the check digit.	
CodabarStartStopTransmission	0x0	Selects start/stop character format to transmit, where $0 =$ not transmitted, $1 =$ "a, b, c, d", $2 =$ "A, B, C, D", $3 =$ "a, b, c, d / t, n, *, e", and $4 =$ "DC1, DC2, DC3, DC4".	
CodabarCLSILibrarySystem	0x0	Enables the CLSI (Computer Library Services, Inc) library standard for Codabar: 14 characters, no start/stop, spaces at positions 2, 7, and 13.	
CodabarConcatenation	0x0	Multiple label concatenation, where $0 =$ disabled, $1 =$ only concatenated, and $2 =$ concatenate if possible.	
CodabarConcatenationMode	0x0	Sets requirements for concatenation, where $0 = no$ requirements, $1 =$ Second code start = first code stop, and 2 = American Blood Commission (second code start = first code stop = 'd').	
CodabarUDSI	"B7"	User-defined symbology identifier. Range is 0-4 characters.	

Registry Key	Default Value	Description	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 93] - Code 93 Symbology Configuration			
Code93Activation	0x0	Enables the Code 93 symbology.	
Code93CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
Code93BarCodeLengthL1	0x1	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Code93BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
Code93BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
Code93BarCodeLengthMode	0x0	Length verification mode, where $0 = "L1$ is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
Code93UDSI	"B6"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\Code 39] - Code 3	9 Symbology Configuration	
Code39Activation	0x1	Enables the Code 39 symbology.	
Code39Unconventional	0x0	Allows decoding of unconventional Code 39 (large intercharacter spacing or a large ratio between narrow and wide elements).	
Code39ReadingRange	0x1	Enables Vesta algorithm decoding for better read range.	
Code39CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
Code39CheckDigitVerification	0x0	Enables various check digit calculations, where 0 = disabled, 1 = modulo 43, 2 = French CIP, 3 = Italian CPI, 4 = HIBC, and 5 = AIAG.	
Code39ReadingTolerance	0x0	Tolerance for reading "hard to read" barcodes, where $0 =$ high, $1 =$ medium, and $2 =$ low.	
Code39BarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Code39BarCodeLengthL2	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Code39BarCodeLengthL3	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Code39BarCodeLengthMode	0x0	Length verification mode, where $0 = "L1$ is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
Code39CheckDigitTransmission	0x0	Enable transmission of the check digit.	
Code39StartStopTransmission	0x0	Enables transmission of start/stop characters.	
Code39AcceptedStartCharacter	0x2	Selects start character, where $1 = 1$ , $2 = 1$ , and $3 = 1$ and $1$ .	
Code39FullASCIIConversion	0x0	Enables extended character set through the use of control characters, where $0 =$ disabled and $1 =$ enabled (extended spec).	
Code39UDSI	"B1"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 128] - Code 128 Symbology Configuration			
Code128Activation	0x1	Enables the standard Code 128 symbology.	

Registry Key	Default Value	Description	
ISBT128Activation	0x0	Enables the International Society of Blood Transfusion's variant of Code 128.	
GS1-128Activation	0x1	Enables the GS1 (formerly EAN) variant of Code 128.	
UnconventionalGS1-128	0x1	Unconventional decoding mode bitfield, where bit $0 =$ allow decode of double FNC1, bit $1 =$ FNC2 append disabled, bit $2 =$ FNC4 ASCII extensions disabled.	
Code128ReadingRange	0x1	Enables Vesta algorithm decoding for better read range.	
Code128CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
GS1-128CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
Code128CheckDigitVerification	0x0	Enables verification of French CIP check digit.	
Code128ReadingTolerance	0x0	Enables verification of segment width, where $0 =$ disabled, 1 = medium tolerance, 2 = low tolerance.	
Code128BarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Code128BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
Code128BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
Code128BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
GS1-128Identifier	0x1	Enables transmission of AIM identifier before the barcode data. This is ignored if GTIN is active.	
Code128SeparatorCharacter	0x1d	Separator between multiple concatenated barcodes.	
Code128ConcatenationTransmission	0x0	Multiple label concatenation, where $0 =$ disabled, $1 =$ only concatenated, and $2 =$ concatenate if possible.	
Code128Concatenation	0x0	Enables non-ISBT-compliant barcodes to be concatenated.	
GTINProcessingforGS1-128	0x0	Limits valid GS1-128 barcodes to GTIN (Global Trade Item Number)-compliant format.	
Code128UDSI	"B3"	User-defined symbology identifier. Range is 0-4 characters.	
GS1-128UDSI	"C9"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Interleaved 2 of 5] - Interleaved 2 of 5 Symbology Configuration			
Interleaved2of5Activation	0x0	Enables the Interleaved 2 of 5 symbology.	
Interleaved2of5ReadingRange	0x1	Enables Vesta algorithm decoding for better read range.	
Interleaved2of5CodeMark	0x49	A single character inserted before the barcode data to indicate the symbology.	
Interleaved2of5CheckDigitVerification	0x0	Enables various check digit calculations, where $0 =$ disabled, $1 =$ modulo 10 and $2 =$ French CIP HR.	
Interleaved2of5ReadingTolerance	0x0	Tolerance for reading "hard to read" barcodes, where $0 =$ high, $1 =$ medium, and $2 =$ low.	
Interleaved2of5BarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).	

Registry Key	Default Value	Description	
Interleaved2of5BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
Interleaved2of5BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
Interleaved2of5BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
Interleaved2of5CheckDigitTransmission	0x0	Enable transmission of the check digit.	
Interleaved2of5UDSI	"B2"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Matrix 2 of 5] - M	atrix 2 of 5 Symbology Configuration	
Matrix2of5Activation	0x0	Enables the MSI Code symbology.	
Matrix2of5StartStop	0x0	Enables special ChinaPost mode, where a specific start/stop is required and the checksum is transmitted.	
Matrix2of5CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
Matrix2of5BarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Matrix2of5BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
Matrix2of5BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
Matrix2of5BarCodeLengthMode	0x0	Length verification mode, where $0 = "L1$ is min length", 1 = "L1, L2, L3 are fixed lengths", and $2 = "L1$ is min, L2 is max length".	
Matrix2of5UDSI	"B4"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\MSI Code] - MSI Code Symbology Configuration			
MSIActivation	0x0	Enables the MSI Code (Modified Plessey) symbology.	
MSICodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
MSICheckDigitVerification	0x1	Enables various check digit calculations, where $1 = modulo$ 10 and $2 = double modulo$ 10.	
MSIBarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
MSIBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
MSIBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
MSIBarCodeLengthMode	0x0	Length verification mode, where $0 = "L1$ is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
MSICheckDigitTransmission	0x1	Enable transmission of the check digit.	
MSIUDSI	"B8"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Plessey Code] - Pl	essey Code Symbology Configuration	
PlesseyActivation	0x0	Enables the Plessey symbology.	
PlesseyUnconventionalStop	0x0	Not documented.	

Registry Key	Default Value	Description	
PlesseyCodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
PlesseyBarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
PlesseyBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
PlesseyBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
PlesseyBarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
PlesseyCheckDigitTransmission	0x0	Enable transmission of the check digit.	
PlesseyUDSI	"C2"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Standard 2 of 5] -	Standard 2 of 5 Symbology Configuration	
Standard2of5Activation	0x0	Enables the Standard 2 of 5 symbology.	
Standard2of5CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.	
Standard2of5CheckDigitVerification	0x0	Enables modulo 10 calculation of check digits.	
Standard2of5BarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
Standard2of5BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
Standard2of5BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
Standard2of5BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
Standard2of5CheckDigitTransmission	0x0	Enable transmission of the check digit.	
Standard2of5Format	0x0	Specifies read mode, where 0 = Identicon (6 start/stop bars) and 1 = Computer Identics (4 start/stop bars).	
Standard2of5UDSI	"B5"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Telepen] - Telepen Symbology Configuration			
TelepenActivation	0x0	Enables the Telepen symbology.	
TelepenCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.	
TelepenBarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).	
TelepenBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).	
TelepenBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).	
TelepenBarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".	
TelepenFormat	0x0	Sets output format, where $0 = ASCII$ and $1 = numeric$ .	
TelepenUDSI	"C6"	User-defined symbology identifier. Range is 0-4 characters.	
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 11] - Code 11 Symbology Configuration			

Registry Key	Default Value	Description		
Code11Activation	0x0	Enables the Code 11 symbology.		
Code11CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
Code11CheckDigitVerification	0x1	Number of check digits to verify. Range is 1 to 2.		
Code11BarCodeLengthL1	0x4	Length value L1. Range is 0x0 to 0xFF (0 to 255).		
Code11BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).		
Code11BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).		
Code11BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".		
Code11CheckDigitTransmission	0x1	Enable transmission of the check digit.		
Code11UDSI	"C1"	User-defined symbology identifier. Range is 0-4 characters.		
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\EAN / UPC] - EAN/UPC Symbology Configuration				
UPC-AActivation	0x1	Enables the UPC-A symbology.		
UPC-EActivation	0x1	Enables the UPC-E symbology.		
EAN-8Activation	0x1	Enables the EAN-8 symbology.		
EAN-13Activation	0x1	Enables the EAN-13 symbology.		
ISBNConversionforEAN-13	0x0	Converts EAN-13 barcodes starting with "978" or "979" (except for "9790") to ISBN (International Standard Book Number) format.		
EANUPCAdd-On2	0x0	Enables decoding of 2-digit EAN/UPC supplements.		
EANUPCAdd-On5	0x0	Enables decoding of 5-digit EAN/UPC supplements.		
EANUPCAdd-OnDigitSecurity	0xa	Selects how much time is spent looking for add-on digits when add-on digits are enabled but not required. Range is 0x0 - 0x64 (0 to 100), where 0x0 is fastest.		
UPC-ACodeMark	0x41	A single character inserted before the barcode data to indicate the symbology.		
UPC-ECodeMark	0x45	A single character inserted before the barcode data to indicate the symbology.		
EAN-8CodeMark	0x4e	A single character inserted before the barcode data to indicate the symbology.		
EAN-13CodeMark	0x46	A single character inserted before the barcode data to indicate the symbology.		
UPC-E1Activation	0x0	Enables the UPC-E1 variant of UPC-E.		
EANUPCReadingRange	0x1	Enables Vesta algorithm decoding for better read range.		
UPC-ACheckDigitTransmission	0x1	Enable transmission of the check digit.		
UPC-ECheckDigitTransmission	0x1	Enable transmission of the check digit.		
EAN-8CheckDigitTransmission	0x1	Enable transmission of the check digit.		

Registry Key	Default Value	Description
EAN-13CheckDigitTransmission	0x1	Enable transmission of the check digit.
UPC-ANumberSystemTransmission	0x1	Enables transmission of the UPC-A number system.
UPC-ENumberSystemTransmission	0x1	Enables transmission of the UPC-E number system.
UPC-ATransmittedasEAN-13	0x1	Enables conversion of UPC-A to EAN-13.
UPC-ETransmittedasUPC-A	0x0	Enables conversion of UPC-E to UPC-A.
EAN-8TransmittedasEAN-13	0x0	Enables conversion of EAN-8 to EAN-13.
EANUPCAdd-OnDigits	0x0	Add-on digit requirement, where $0 = optional$ and $1 = required$ .
EANUPCGTINProcessing	0x0	Converts EAN-13 barcodes to GTIN (Global Trade Item Number)-compliant format.
ISMNConversionforEAN-13	0x0	Converts EAN-13 barcodes starting with "9790" to ISMN (International Standard Music Numbering) format.
ISSNConversionforEAN-13	0x0	Converts EAN-13 barcodes starting with "977" to ISSN (International Standard Serial Number) format.
UPC-AUDSI	"A0"	User-defined symbology identifier. Range is 0-4 characters.
UPC-EUDSI	"E0"	User-defined symbology identifier. Range is 0-4 characters.
EAN-8UDSI	"FF"	User-defined symbology identifier. Range is 0-4 characters.
EAN-13UDSI	"F"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\PDF417] - PDF41	7 Symbology Configuration
PDF417Activation	0x1	Enables the PDF417 symbology.
MicroPDF417Activation	0x0	Enables the "micro" variant of PDF417.
PDF417IrregularPDF	0x0	Enables the reading of labels for a symbol length descriptor of 0.
PDF417Code128Emulation	0x0	Certain Micro PDF417 codes are read as Code 128.
PDF417CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
MicroPDF417CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
PDF417OptionalFieldsFileNameTransmission	0x0	Enables file name transmission for PDF417.
PDF417SegmentCountTransmitted	0x0	Enables segment count transmission for PDF417.
PDF417TimeStampTransmitted	0x0	Enables time stamp transmission for PDF417.
PDF417SenderTransmitted	0x0	Enables sender transmission for PDF417.
PDF417AddresseeTransmitted	0x0	Enables addressee transmission for PDF417.
PDF417FileSizeTransmitted	0x0	Enables file size transmission for PDF417.
PDF417ChecksumTransmitted	0x0	Enables checksum transmission for PDF417.
PDF417UDSI	"C7"	User-defined symbology identifier. Range is 0-4 characters.

Registry Key	Default Value	Description		
MicroPDF417UDSI	TODO	User-defined symbology identifier. Range is 0-4 characters.		
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Codablock] - Cod	ablock Symbology Configuration		
CodablockAActivation	0x0	Enables the Codablock A (Code 39-based) symbology (if enabling this symbology, it is recommended to disable Code 39 to prevent conflict).		
CodablockFActivation	0x0	Enables the Codablock F (Code 128-based) symbology (if enabling this symbology, it is recommended to disable Code 128 to prevent conflict).		
CodablockACodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
CodablockFCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
CodablockAUDSI	"K0"	User-defined symbology identifier. Range is 0-4 characters.		
CodablockFUDSI	"K1"	User-defined symbology identifier. Range is 0-4 characters.		
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\TLC 39] - TLC 39	Symbology Configuration		
TLC39Activation	0x0	Enables the TLC 39 symbology (requires Micro PDF417 and Code 39 to be enabled as well).		
TLC39LinearOnlyTransmissionMode	0x0	Ignores Micro PDF417 data and only transmits the Code 39 portion.		
TLC39ECISecurity	0xa	Selects how much time is spent looking an ECI number if the Code 39 portion of the label is 6 digits. Range is 0x0 - 0x64 (0 to 100), where 0x0 is fastest.		
TLC39CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
TLC39UDSI	"H0"	User-defined symbology identifier. Range is 0-4 characters.		
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\GS1 DataBar] - GS1 DataBar Symbology Configuration				
DatabarOmniDirectionalActivation	0x0	Enables the DataBar Omnidirectional/RSS 14 symbology.		
DatabarLimitedActivation	0x0	Enables the DataBar Limited/RSS Limited symbology.		
DatabarExpandedActivation	0x0	Enables the DataBar Expanded/RSS Expanded symbology		
DatabarOmniDirectionalCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
DatabarLimitedCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
DatabarExpandedCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.		
DatabarOmniDirectionalUDSI	"C3"	User-defined symbology identifier. Range is 0-4 characters.		
DatabarLimitedUDSI	"C4"	User-defined symbology identifier. Range is 0-4 characters.		
DatabarExpandedUDSI	"C5"	User-defined symbology identifier. Range is 0-4 characters.		
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Maxicode] - Maxicode Symbology Configuration				
MaxicodeActivation	0x0	Enables the Maxicode symbology.		
Default Value	Description			
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0x0	Enables the obsolete Mode 0 variant of Maxicode.			
0x0	Header for Mode 0 labels, where $0 = \text{regular}$ (AIM) and $1 = \text{extended}$ (same as mode 2/3).			
0x2a	A single character inserted before the barcode data to indicate the symbology.			
"D2"	User-defined symbology identifier. Range is 0-4 characters.			
\Aztec] - Aztec Syn	nbology Configuration			
0x0	Enables the Aztec symbology.			
0x0	Enables Aztec structured append header.			
0x0	Enables the Aztec Runes variant of Aztec.			
0x0	Sends an EAN 128 symbology identifier before the data.			
0x2a	A single character inserted before the barcode data to indicate the symbology.			
"D3"	User-defined symbology identifier. Range is 0-4 characters.			
\Datamatrix] - Data	umatrix Symbology Configuration			
0x1	Enables the Datamatrix symbology.			
0x0	Enables decoding of mirrored labels.			
0x2a	A single character inserted before the barcode data to indicate the symbology.			
"D0"	User-defined symbology identifier. Range is 0-4 characters.			
\QR Code] - QR C	ode Symbology Configuration			
0x0	Enables the QR (Quick Response) Code symbology.			
0x0	Decoding mode for black/white inverted labels, where $0 =$ normal (black on white), $1 =$ inverse (white on black), and $2 =$ automatic.			
0x0	Enable transmission of label header with every symbol.			
0x0	Enables the "micro" variant of QR.			
0x2a	A single character inserted before the barcode data to indicate the symbology.			
"D1"	User-defined symbology identifier. Range is 0-4 characters.			
GS1 Composite] -	GS1 Composite Symbology Configuration			
0x0	Enables GS1 Composite with a CC-A or CC-B (Micro PDF417) 2D component.			
0x0	Enables GS1 Composite with a CC-C (PDF417) 2D component.			
0x0	Enables emulation of the GS1-128 symbology.			
0x0	Ignores the 2D portion and only transmits the 1D barcode.			
0x0	Disable transmission of AIM identifier.			
	Default Value0x00x00x2a"D2"\Aztec] - Aztec Syn0x00x00x00x00x00x00x10x10x00x2a"D0"\QR Code] - QR Cod0x0			

Registry Key	Default Value	Description
CompositeCodeMarkCC-AB	0x2a	A single character inserted before the barcode data to indicate the symbology.
CompositeCodeMarkCC-C	0x2a	A single character inserted before the barcode data to indicate the symbology.
UPCAndEANCompositeMessageDecoding	0x2	Decode mode for EAN/UPC composites, where 0 = never linked (only EAN/UPC transmitted), 1 = always linked (2D component required), and 2 = autodiscriminate.
CompositeABUDSI	"G0"	User-defined symbology identifier. Range is 0-4 characters.
CompositeCUDSI	TODO	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	· ·\Multicode] - Mult	iple Symbology Concatenation Support
MulticodeActivation	0x0	Activates the ability to read multiple barcodes with one trigger press. If this value is set to 1 (enabled), then barcodes that don't match the masking criteria can be returned independently of other barcodes (normal operation). If this value is set to 2 (exclusive), then barcodes that don't match the masking criteria will be discarded.
MulticodeNumberOfBarcodes	0x2	Number of barcodes in the multicode. Range is 2-8.
MulticodeIncompleteTransmission	0x0	Enables transmission of incomplete multicode after the timeout is reached.
MulticodeCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
MulticodeCodeMarkOfIncomplete	0x2a	A single character inserted before the barcode data to indicate the symbology. Used when incomplete transmission is enabled and the timeout is reached.
MulticodeIDForBarcode1	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode2	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode3	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode4	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode5	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode6	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode7	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode8	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.

Registry Key	Default Value	Description
MulticodeLengthForBarcode1	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode2	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode3	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode4	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode5	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode6	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode7	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode8	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeIncompleteTransmissionTimeout	0x0	Timeout, in ms, before an incomplete multicode is transmitted.
MulticodeMaskForBarcode1	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode2	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode3	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode4	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode5	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode6	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode7	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.

Registry Key	Default Value	Description
MulticodeMaskForBarcode8	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode.
		See manufacturer's website for details.
MulticodeUDSI	"UDM0"	User-defined symbology identifier. Range is 0-4 characters.
MulticodeUDSIOfIncomplete	"UDM1"	User-defined symbology identifier. Range is 0-4 characters. Used when incomplete transmission is enabled and the timeout is reached.
MulticodeBarcodeSeparator	"~>"	Separation string between barcodes. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	\Data Editing] - Ba	rcode Data Editing
ActivationForScenario1	0x0	Enables the barcode editing scenario.
ActivationForScenario2	0x0	Enables the barcode editing scenario.
ActivationForScenario3	0x0	Enables the barcode editing scenario.
ActivationForScenario4	0x0	Enables the barcode editing scenario.
ActivationForScenario5	0x0	Enables the barcode editing scenario.
ActivationForScenario6	0x0	Enables the barcode editing scenario.
ActivationForScenario7	0x0	Enables the barcode editing scenario.
BarcodeIdentifierForScenario1	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeIdentifierForScenario2	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeIdentifierForScenario3	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeIdentifierForScenario4	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeIdentifierForScenario5	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeIdentifierForScenario6	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeIdentifierForScenario7	0x0	Intermec-specific symbology identifier (0x0 is all symbologies).
		See manufacturer's website for details.
BarcodeLengthForScenario1	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.

Registry Key	Default Value	Description
BarcodeLengthForScenario2	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario3	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario4	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario5	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario6	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario7	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MaskForScenario1		A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario2	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario3		A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario4		A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario5	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario6	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario7	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
ActionListForScenario1		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario2		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.

Registry Key	Default Value	Description
ActionListForScenario3		A set of instructions, up to 100 characters, to be executed for this scenario.
		See manufacturer's website for details.
ActionListForScenario4		A set of instructions, up to 100 characters, to be executed for this scenario.
		See manufacturer's website for details.
ActionListForScenario5		A set of instructions, up to 100 characters, to be executed for this scenario.
		See manufacturer's website for details.
ActionListForScenario6		A set of instructions, up to 100 characters, to be executed for this scenario.
		See manufacturer's website for details.
ActionListForScenario7		A set of instructions, up to 100 characters, to be executed for this scenario.
		See manufacturer's website for details.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	· Message format] -	Additional information added to barcode data
MessageFormatSymbologyIdentifier	0x0	Chooses which symbology identifier is inserted before the barcode data. $0 =$ disabled, $1 =$ Code Mark, $2 =$ AIM format, $3 =$ User Defined.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	Decoding Security	] - Decoding Verification
CenterDecoding	0x0	Only decodes a barcode if it is in the center of the frame.
CenterDecodingTolerance	0x0	Amount of tolerance for what is considered the "center". Range is 0x0 - 0x64 (0 to 100), where "0x0" is the least tolerant (must be aimed exactly).
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager	·\Imager] - Imager	Configuration
DecodeMode	0x1	Decoding mode, where $0 =$ linear imager emulation, and $1 = 2D$ imager.
AimerFlashing	0x1	Aimer mode, where $0 = \text{on}$ , $1 = \text{decode optimized}$ (flashing at frame rate), and $2 = \text{off.}$
Initial1DSearchArea	0x0	For 1D barcodes, sets the initial search area. $0 = \text{center}$ , 1 = upper half, 2 = lower half, 3 = full, 4 = "smart raster" (better for non-horizontal).
DPMMode	0x0	Enhances the ability to read a DPM (Direct Product Marking) barcode where the barcode is marked directly on the product.
Damaged1DCodes	0x0	Enhances the ability to read damaged or badly printed 1D barcodes.
ExtensiveBarcodeSearch	0x0	The decoding algorithms spend more time trying to find a barcode.

# **Charging an A700 Device Battery**



#### Figure 2: Talkman A700 Standard and High Capacity Batteries

(!) **CAUTION:** A700 device batteries and other Honeywell batteries are not interchangeable. If you try to insert the wrong battery into a device, you may damage the device and the battery.

A700 devices use a Honeywell Charger that charges the high-performance battery while still seated in a device and a separate charger for charging batteries that have been removed from the device.

# **A700 Product Battery Specifications**

The A700 series can use a standard or high-capacity battery.

Standard Battery Weight	2.8 ounces (79.38g)
High-Capacity Battery Weight	4.6 ounces (130.41g)

#### **Electrical Specifications**

- Cells: The high capacity battery pack uses two lithium ion cells.
  - Nominal voltage = 3.7V
  - Capacity = 4400mAhr or greater
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- The battery pack contains custom electronics that provide performance, temperature, and pack identification to the device. This information is made available to voice management software.
- Battery Charging: The battery pack must be charged only in a Honeywell designated charger.

#### **Mechanical and Environmental Specifications**

- Drop-test specifications
  - The high capacity battery meets the MIL STD 810F specification for shock and transient drop criteria.

• Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Operation Temperature: -30°C to 50°C (-22°F to 122°F) Storage Temperature: -30°C to 60°C (-22°F to 140°F) Humidity: 95% condensing Rain/dust: IP67

#### **Battery Notifications**

Battery warnings for a Talkman battery occur at the following levels:

- First warning = 30 minutes remaining until empty
- Critical warning = 0 minutes remaining until empty



#### Charging an A700 Battery in a Device

- 1. Remove the device from the belt clip.
- 2. Disconnect any wired peripherals.
- **3.** Insert the device into an open slot on the charger, ensuring that the battery contact side of the device is placed against the battery contact side of the slot.
- 4. After the device has been placed into the charger, make sure that the device state indicator on the device turns on a solid yellow.
  - a) If the indicator does not turn on after 30 seconds, remove the device from the charger slot and then place it into the slot again.
  - b) If the indicator still does not turn on, try another charger slot.
- (!) **CAUTION:** Do not attempt to place the device into the charger unless you have first disconnected the headset and any other peripheral devices. Do not remove the battery from the device when placing a device into a charger.

#### **Charging an A700 Device Battery**

- Note:
  - A battery is fully charged and can be removed from the charger when the ring LED indicator light for that port on the charger is green.
  - If you insert a fully charged battery into a charger, the charger will analyze the battery's status and indicate charge status immediately.
- 1. Make sure the battery charger is powered. To power on the charger, connect the power supply to the charger and a power source. The LED indicator light at the bottom right of the charger face panel should be solid green.
- 2. Power off the device.
- **3.** Remove the battery from the device.
- 4. Hold the battery with the pins downward and facing away from you, and push it onto an empty port on the battery charger until it snaps into place.
- 5. When the ring LED indicator turns a solid green, the battery is fully charged. Pull the battery off the charger port to insert it into an A700 device.

#### Inserting a Battery into a Talkman A700 Device

Make sure the battery to be inserted is fully charged.

- 1. Hold the Talkman so that the battery compartment is facing up.
- 2. Hold the battery with the rounded side up.
- 3. Place the battery in at an angle, pins end first.
- **4.** Push the back of the battery into place. You will hear a click when the battery is in place.

(!) CAUTION: Do not force the battery into the compartment. You may damage the battery or the device. If the battery does not snap easily into place, reposition the battery in the compartment and try again.

Make sure the battery is firmly in place and can't be removed without pressing the battery release button.

**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

#### Removing a Battery from a Talkman A700 Device

Make sure the Talkman device is off.

- (!) CAUTION: Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.
- 1. Hold the device in one hand.
- **2.** Press the battery release button all the way down until the top of the battery pops out from the battery compartment.



Figure 3: Removing the Battery From a Device

3. Lift the battery out of the compartment.

# Scanning with the Talkman A730 Device



See the Compliance Section of this document for Laser and Imager Compliance and Precaution information.

The scanner can only be used at points in the task where it is allowed, such as a check digit or product verification prompt.

- 1. Hold the Talkman A730 in a "handshake" grip with the scanner pointing away from you.
- 2. Position the device so that the scanner is 4 to 36 inches away from the barcode you want to read. Note that scan accuracy may decrease at greater distances.
- 3. Press and hold the round black button to activate the scanner.
- 4. Direct the lighted aiming frame so that it completely contains the barcode.
- 5. When a scan is successful, the aiming frame will turn off and you will hear a beep in the headset.



**Note:** The beep that signals a scan is enabled by default but can be disabled by setting EnableBeepOnBarcodeScan to 0. The beep volume is controlled by the device volume and can be adjusted with the Plus (+) and Minus (-) buttons on the device.

# About LED Indicators

Vocollect Talkman devices, SRX and SRX2 headsets, and their chargers have LEDs that indicate the state of the equipment. These LEDs may be on, off or blink. In some cases an LED will blink, alternating between two colors.

If the LEDs indicate that there is a problem, refer to information on troubleshooting to solve the problem. See also *Troubleshooting Problems Indicated by LED*.

#### **A700 Device LED Indicators**

The Talkman A700 products have several LED indicators to inform you of different states. The indicators and their blinking patterns are described in the following sections:

# Opevice State Indicator

The device state indicator is a ring that is divided into a larger and smaller segment:



#### Figure 4: Ring Segments on Device State Indicator

Color	Blink Pattern	Device State
Off	Off	Off
Green	Small segment pulse	Sleep
Green	Small segment on	On
Green	Solid ring	Charging complete
Green	Fast blink	Touch Config or TouchConnect successful
Yellow	Rotating ring	Loading or changing operator
Yellow	Rotating ring	Loading or changing task
Yellow	Rotating ring	Loading or changing voice
Yellow	Rotating ring	Starting up
Yellow	Solid ring	Charging
Yellow	Small segment pulse	Platform is loaded, but no task loaded
Yellow	Small segment on	TouchConfig sender mode entered

Color	Blink Pattern	Device State
Yellow	Large segment on	TouchConfig receiver mode entered
Red	Rotating ring	Firmware load
Red	Ring on	Early boot
Red	Rotating ring	Shutting down
Red	Fast blink	Charging fault or in charger or connected to power supply without battery
		TouchConfig or TouchConnect not successful

## Battery Charging Indicator

Color	Blink Pattern	Battery State
Off	Off	Not seated in charger or charger not on
Yellow	On	Charging
Green	On	Charging complete
Red	Fast blink	Charging fault

# Battery Health Indicator

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Indicator Blink Pattern	Indicator Color	Battery Charging State	Notes
Off	Off	The battery in the device has no battery health issues. In other words, the battery is healthy.	
On	Red	The battery in the device has a health issue.	A user can use a fully charged battery with a health issue. However, the supervisor should refer to VoiceConsole to get more information regarding the battery health issue, which might mean replacing the battery. Refer to the VoiceConsole online help for more information on the battery health statistics.

**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

# Near Field Communication (NFC) Indicator

Blink Pattern	NFC State
Off	NFC radio is disabled.
Fast blink	The device is scanning for a tag.
Blink	TouchConfig sender or receiver mode entered
On (for one second then off)	The device successfully read a tag.
Slow pulse	Readable - act as a tag

# \*Bluetooth Indicator

Blink Pattern	Bluetooth State
Off	Bluetooth radio is disabled.
On	Device is searching for other Bluetooth devices.
Fast blink	Device is attempting to connect to another Bluetooth device.
Pulse	Bluetooth is connected to a peripheral.
Discoverable Blink Pattern	Device Bluetooth is discoverable by other devices.
Slow Pulse	Bluetooth is on and enabled, but is not connected, not in discovery or paging mode, and not discoverable.

# Network Indicator

Network Indicator	Network State	What is Happening	When This Occurs
On	Radio enabled but unconfigured	The radio is powered on but the device is not attempting to connect to the network.	No network is defined for the device.
Fast Blink	Radio enabled and connecting to network	The radio is powered on and is scanning, associating, and authenticating.	On first connection, on re-association and after every roaming out of network.
Pulse	Connected to network	Full network connection.	The device may be requesting and receiving an IP address.

# TouchConfig: Bringing Additional A700 Devices Online

Prerequisite: A single device has been configured. The following instructions are for configuring additional devices.

- **Note:** TouchConfig uses near field communication (NFC). Data sent through NFC is not encrypted nor does it follow any specific safety protocol. This is because the transfer occurs over such a short range that it is nearly impossible for data to be intercepted.
- 1. Ensure that all devices are off.
- 2. On the configured device, press and hold the Plus (+) button then press the Play/Pause button to put the device into sender mode.

The ring's small segment will be solid yellow and the NFC indicator will blink yellow.

3. On the unconfigured devices, press and hold the **Minus** (-) button then press the **Play/Pause** button to put the devices into receiver mode.

The ring's large segment will be solid yellow and the NFC indicator will blink yellow.

- 4. Turn each of the unconfigured devices so that the sides with the 🔘 symbol are facing up.
- 5. Hold the configured device so that the side of the device that has the symbol is facing down. Align the raised oval on the device with the raised oval on an unconfigured device. Ensure that the ovals are *fully* aligned, then hold the two devices steadily against each other.



Figure 5: Transferring the Configuration Using TouchConfig

6. Watch the device state LED indicator ring on the receiving device to confirm configuration success or failure.

**Successful configuration transfer**: The receiving device LED indicator ring blinks green for about two seconds, then the indicator signals the device reboot process (flashes red briefly, then rotates yellow around the ring, then rotates red).

Failed configuration transfer: The LED indicator ring blinks red for about two seconds, then returns to receiver mode.

7. Repeat steps 5 and 6 for any remaining unconfigured devices.

# Installing the USB Driver on Windows XP

When you connect an A700 device to your Windows PC, the PC will search for a USB driver to install. If the PC is configured to search for drivers online and the connection succeeds, the driver will install automatically and the A700 device will be ready to use. If the automatic installation fails, follow these steps.

- 1. Navigate to the .inf and .cat files in the USB Driver folder on the VoiceConsole software DVD and save both files to your computer.
- 2. Open Device Manager and locate Talkman USB Serial.
- 3. Right click it and select Update Driver.

- 4. When prompted with Can Windows connect to Windows Update to search for software?, select No, not at this time.
- 5. Select Install from a list or specific location (advanced).
- 6. Click Have Disk. Navigate to the location where you saved the .inf and .cat files.
- 7. Select the TalkmanUsbSerial.inf file. If there is a driver warning, click Continue Anyway.

# Installing the USB Driver on Windows 7 or Vista

When you connect an A700 device to your Windows PC, the PC will search for a USB driver to install. If the PC is configured to search for drivers online and the connection succeeds, the driver will install automatically and the A700 device will be ready to use. If the automatic installation fails, follow these steps.

- 1. Navigate to the .inf and .cat files in the USB Driver folder on the VoiceConsole software DVD and save both files to your computer.
- 2. Open Device Manager and locate Talkman USB Serial.
- 3. Right click it and select Update Driver.
- 4. Select Browse my computer for driver software.
- 5. Select Let me pick from a list of device drivers on my computer.
- 6. Click Have Disk. Navigate to the location where you saved the .inf and .cat files.
- 7. Select the TalkmanUsbSerial.inf file. If there is a driver warning, or a prompt about proceeding, indicate that you want to continue.

# **Collecting Platform Debug Logs from A700 Devices**

When you connect an A700 device to your Windows PC, the PC will search for a USB driver to install. If the PC is configured to search for drivers online and the connection succeeds, the driver will install automatically and the A700 device will be ready to use. If the automatic installation fails, follow these steps.

- 1. Using a standard USB cable, connect the device to a computer.
- **2.** Power on the device.
- 3. On your computer, run a serial terminal emulator, such as HyperTerminal, using the following settings:
  - Bits per Second: 57600
  - Data Bits: 8
  - Parity: None
  - Stop Bits: 1
  - Flow Control: None

The device transfers platform logs 30 seconds after connection and then once a minute after that. The results are viewable within the serial terminal emulator window.

# Accessories

Honeywell offers a variety of accessories for wearing, protecting, and facilitating the operations of Talkman and other devices.

Handheld and other devices may require specific cables in order to use Honeywell accessories, such as headsets. See the release notes for the Vocollect Voice software for your device for more information.

#### **Belts**

To comply with government safety standards, the device must be used with the Vocollect belt and standard or scanning device holster.

#### **A700 Belt Specifications**

Belt Size	Dimensions
XS	18" - 26" (46cm-66cm)
S	24" - 32" (61cm-81cm)
M	28" - 36" (71cm-91cm)
L	34" - 42" (61cm-107cm)
XL	40" - 48" (102cm-122cm)
XXL	46" - 54" (117cm-137cm)
XXXL	52" - 60" (132cm-152cm)
Belt Part	Specification
Belt material	Nylon
Velcro®	YKK Hook and Loop
Belt fastener	ITW Nexus 127-3200

#### Using the A730 Scanning Device Holster

A700 devices have two slots that run the length of the body. These can be used to attach the device to a belt.

- 1. Put the belt on with the clip either on your right or left side.
- 2. Position the device so that the slots on the top and bottom align with the runners on the clip.
- 3. Slide the device into the clip until you hear a click.

When you remove the device from the clip, you must apply a small amount of pressure away from you while sliding it away from the clip.



Figure 6: The A730 Scanning Device Holster

#### Using the Device Holster

The holster is designed for the A710 and A720 devices that will not be handled frequently throughout a shift.

- **Note:** Honeywell strongly recommends using a Honeywell holster for your device. Placing a device in a pocket or other enclosed space can cause issues with WiFi performance.
- **1.** Attach the holster to the belt.
- **2.** Undo the Velcro strips.
- **3.** Slide the device into the holster, with the buttons facing up.
- **4.** Fasten the Velcro strips.



Figure 7: The A700 Device Holster

#### **A700 Holster Specifications**

Belt material	Nylon
Belt fastener	Non-replacable

### Vehicle Mounts for Talkman A700

The Screw-on Mount is a mounting option that is bolted to a stationary surface on a vehicle.

The Clamp Mount is a mounting option that is clamped to a stationary surface on a vehicle. This can also be bolted to a stationary surface, if desired.

The Claw Mount is also clamped to a stationary surface, but can be clamped to oddly-shaped or horizontal or vertical surfaces.



Figure 8: Screw On Mount





Figure 9: Clamp Mount

Figure 10: Claw Mount

#### Positioning the Talkman A700 Vehicle Dock

- Determine the best position for the device and all the associated components. If a similar device was previously installed, check to see if the position it used is suitable for the device.
- Check that the position of the device does not obstruct vehicle controls.
- Check that the device does not obstruct the driver's view.
- Check the position of the device for user comfort over long periods.

#### Installing the Mounting Brackets for a Talkman A700 Vehicle Dock

The following parts are supplied by Honeywell for attaching the screw-on mount:

Quantity	Description
2	Vehicle Mount, Holder/Base Screw On Attachment
1	Vehicle Mount, Arm
1	Vehicle Mount, Holder

The following parts are supplied by Honeywell for attaching the clamp-on mount:

Quantity	Description
1	Vehicle Mount, Clamp
1	Vehicle Mount, Arm
1	Vehicle Mount, Holder
1	Vehicle Mount, Holder/Base Screw On Attachment

The following parts are supplied by Honeywell for attaching the claw mount:

Quantity	Description
1	Vehicle Mount, Claw
1	Vehicle Mount, Arm
1	Vehicle Mount, Holder
1	Vehicle Mount, Holder/Base Screw On Attachment

Drill the holes required to secure the base to the vehicle. If using the clamp or claw mount, skip this step.
 Note: Apply some lubricant (for example, light oil or anti-seize) to the threads of the clamp mount screws.

- **2.** Screw or clamp a base to the location.
- **3.** Attach the other base to the other end of the arm and tighten once in the desired location by turning the locking lever clockwise.
- **4.** Screw the device holder to the base.
- 5. Insert a device into the holder.

To prevent vibration, the arm of the mounting bracket should not touch the stem of the ball of the base. In other words, the arm should not be tilted so far as to have these pieces touching.



# Chapter

# 4

# Talkman A500

# Topics:

- A500 Specifications
- Charging an A500 or T5 Device
- Easy Configuration
- Talkman A500 VMT



### Figure 11: Talkman<sup>™</sup> A500

The Talkman<sup>™</sup> A500 couples a rugged design to function in harsh warehouse environments with wireless capabilities. The device supports Bluetooth technology to connect to display devices as well as other peripherals and headsets. In the Vocollect Talkman product line, the Talkman A500 offers expanded operations with a more powerful processor, more available memory, and a more robust radio.

The A500 uses the same batteries, chargers, and headsets as the T5-Series devices. Both models use the Vocollect VoiceClient<sup>™</sup> voice software, but the A500 is designed to take advantage of Vocollect VoiceCatalyst<sup>™</sup> functionality for best performance and enhanced features.

# **A500 Specifications**

Weight	6.31 ounces (178.89 g)
	With standard battery: 11.01 ounces (312.13 g)
Length	5.5" (13.97 cm)
Width	2.63" (6.68 cm)
Depth	1.7" (4.3 cm)
I/O Ports	<ul> <li>Headset port (yellow)</li> <li>Maintenance port with audio out and RS-232 serial support</li> </ul>
Operating Temperature	-22° to 122° F (-30° to 50° C)
Storage Temperature	-30° to 140° F (-34° to 60° C)
Drop Tested	Meets the MIL STD -810F specification for shock and vibration.
	In addition, the device has been tested to the following specifications:
	<ul> <li>25 drops from 5 feet, 10 additional drops from 6 feet onto polished concrete</li> <li>10 drops at varying angles from 5 feet at -20° F (-29° C) onto polished concrete</li> </ul>
Humidity	100% condensing
Enclosure Rating	IP67

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

# Charging an A500 or T5 Device



Figure 12: Talkman A500/T5 High-Performance Battery

The A500/T5 battery is a high-performance model. Unlike the T2 series batteries, which have contact points that are flush with the case, the A500/T5 battery features a pin-out design.

(!) **CAUTION:** A500/T5 series batteries and other Honeywell batteries are not interchangeable. If you try to insert the wrong battery into a device, you may damage the device and the battery.

The A500 and T5 devices use a Honeywell Combination Charger that charges the high-performance battery while still seated in a device or when removed from the device.

#### A500/T5 High-Performance Batteries Specifications

The A500 and T5-Series devices use a standard battery.

Standard Battery weight 4.7 ounces (155.24g)
--

#### **Electrical Specifications**

- Cells: The high capacity battery pack uses two lithium ion cells.
  - Voltage = 3.7V
  - Watt Hours = 19WHr
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- The battery pack contains custom electronics that provide performance, temperature, and pack identification to the device. This information is made available to voice management software.
- Battery Charging: The battery pack must be charged only in a Honeywell designated charger.

#### **Mechanical and Environmental Specifications**

- Drop-test specifications: The high capacity battery meets the MIL STD 810F specification for shock and transient drop criteria.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Temperature: -40°C to 55°C (-40°F to 131°F) Humidity: 95% non-condensing Rain/dust: IP67

#### **Battery Notifications**

Battery warnings for a Talkman battery occur at the following levels:

- First warning = 3,45 mV
- Critical warning = 3,350 mV

#### Charging an A500 or T5 Battery in a Device

- 1. Remove the device from the belt clip.
- 2. Disconnect any other peripherals.
- 3. Insert the device into an open slot on the charger, pressing down and then back until the device clicks into place.
- 4. After the device has been placed into the charger, make sure that the LED indicator on the device turns on and begins to blink green.
  - a) If the LED does not turn on after 30 seconds, remove the device from the charger slot and then place it into the slot again.
  - b) If the LED indicator still does not turn on, try another charger slot.

(!) **CAUTION:** Do not attempt to place the device into the charger unless you have first disconnected the headset and any other peripheral devices. Do not remove the battery from the device when placing a device into a charger.

### Charging an A500 or T5-Series Battery

- 1. Remove the battery from the Talkman device.
- 2. Hold the battery with its contacts to the bottom and the Vocollect label facing you.



#### Figure 13: Inserting a Battery Into the Charger

**3.** Place the battery into an open battery slot on the top level of the charger. When the battery is placed into the charger properly, the left LED indicator for the slot into which the battery was placed turns red.



**Note:** The upper set of LED indicators apply to the charger's battery slots and the lower indicators apply to the devices' slots.

#### Removing an A500, T2-Series or T5-Series Device From a Charger

The device is ready to use when the LED indicator on the device is blinking green. If the LED is blinking red, the device is not ready to be used.

- **Important:** If a device continuously displays a solid red light, contact your system administrator.
- 1. Make sure that the device is ready to use.
- 2. Pull up on the device to remove it from the device charger.



#### Figure 14: Removing a Device from a Charger

#### Inserting a Battery into a Talkman A500, T5-Series or T2-Series Device

Make sure the battery to be inserted is fully charged.

- 1. Hold the Talkman so that the red and yellow ports are facing away from you.
- 2. Hold the battery with the pins facing away from you and so that the Vocollect logo is on top.
- **3.** Place the battery in at an angle, pins end first.



#### Figure 15: Properly Inserting a Battery

**4.** Push the back of the battery into place.

You will hear a click when the battery is in place.

**CAUTION:** Do not force the battery into the compartment. You may damage the battery or the device. If the battery does not snap easily into place, reposition the battery in the compartment and try again.

Make sure the battery is firmly in place and can't be removed without pressing the battery release button.

**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

# Removing a Battery from a Talkman A500, T5-Series or T2-Series Device

Make sure the Talkman device is off.

- (!) CAUTION: Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.
- 1. Hold the device in one hand with the battery compartment facing toward you.
- 2. Press the battery release button all the way down until the top of the battery pops up from the battery compartment.



Figure 16: Removing the Battery From a Device

3. Lift the battery out of the compartment.

# **Easy Configuration**

Easy Configuration uses the serial connection between bays in the T5/A500 Combination Charger to distribute configuration files from one device to all devices in the charger. This feature allows new installations to quickly complete initial device configuration and simplifies adding new devices or returning repaired devices to service.

Any of the supported device models - T5, T5*m*, and A500 - may be configured using this feature. Multiple models may be configured in the charger at the same time. Please note, however, that some configurable parameters are specific to a device's radio card. Therefore, some parameters loaded from the master device to devices with different radios will not be effective, and devices that receive the distribution may not receive all of the desirable parameters for their specific radios.

**Note:** Easy configuration should be used only with a DHCP server.

### **Easy Configuration: Initial Setup**

The following instructions are for initially setting up the site. That is, no devices are currently connected to VoiceConsole.

1. Create a device profile in VoiceConsole.

You can set the device profile as a "default profile," which automatically loads to any bare-platform devices. The devices must be in standby mode and connected to VoiceConsole.

- **Note:** The Talkman A500 model TT-802 ships as a bare-platform device. It does not have Vocollect voice software—VoiceCatalyst or VoiceClient—preloaded.
- 2. In the Advanced Device Settings text box, type this parameter: "distributable"="1"

The value of "1" marks the device profile as one that can be shared with other devices using the serial connection between bays in the T5/A500 charger. If this parameter is not placed in the device profile or if its value is set to zero, the device profile will not be shared.

- 3. Follow the instructions in the VoiceConsole online help for completing the device profile.
- 4. Use a serial cable to load this profile to a single device.
  - **Note:** If the device profile you are loading is configured for use with static IP addresses, all the devices will have the same IP address.

### Easy Configuration: Bringing Additional T5, T5m, and A500 Devices Online

A single device has been configured using the Easy Configuration Initial Setup instructions and VoiceConsole Online Help. The following instructions are for configuring additional devices.

- 1. Place a properly configured T5, T5*m*, or A500 device in the transmit bay in the charger. When facing the charger bay, the transmit bay is the first bay on the right. It is identified with an off-white latch. The other bays have dark gray latches.
- 2. Place the new or repaired T5, T5*m*, or A500 devices in the remaining charger bays.
  - The LED indicators on the unconfigured devices flash green until the devices determine that they cannot reach VoiceConsole.
  - The LED indicators flash orange as the devices attempt to connect to the network to listen for a file broadcast.
  - The LED indicators flash green briefly as the devices receive profiles from the configured device and verify the configuration.
  - The LED indicators change to solid red as the devices reboot.
  - When the devices have applied the configuration file and successfully contacted VoiceConsole, the LED indicators change to blinking green. The devices are then ready to use or can be used in another charger to bring additional devices online.



**Note:** The AC power indicator at the bottom right of the charger displays alternating green and yellow lights when Easy Configuration operations are occurring. Devices should not be removed until the individual indicator on the device blinks green or the charger's power indicator glows solid green.

# Talkman A500 VMT

A Talkman A500 VMT is an A500 device with a battery adapter mounted to a vehicle, such as a forklift or motorized pallet jack. After the device is mounted, the battery adapter is placed in the battery area of the A500 device and connected to the vehicle's power source.

Talkman devices in this configuration may use any wired or wireless equipment (headsets, scanners, etc.). Honeywell sells the complete solution including mounting kits and power systems to enable any Talkman A500 devices to be used in an A500 VMT configuration.

(!) CAUTION: PLEASE DO NOT LOOK AT DEVICE/UNIT WHILE OPERATING MACHINERY SO AS TO AVOID CREATION OF A DISTRACTION THAT COULD RESULT IN AN ACCIDENT AND BODILY INJURY TO OPERATOR AND THIRD PERSONS.

Follow the instructions below to properly install the device in a forklift.

- Determine the best location for mounting the device, taking into consideration the driver's field of view.
- Install the appropriate mounting hardware.
- Connect the device to the vehicle's wiring system.

#### Talkman A500/T5 VMT Accessories

The Talkman A500/T5 VMT is designed to be installed using RAM<sup>®</sup> Mounting Systems hardware. Honeywell supplies a mounting bracket for the A500/T5 and mounting hardware from RAM Mounting Systems. Additional hardware mounting bracket options can be purchased directly from RAM Mounting Systems (www.ram-mount.com) to customize the installation.

The A500/T5 VMT must be mounted to a sturdy surface.



Figure 17: Screw On Mounting Parts



Figure 18: Screw On Mounting



**Figure 19: Clamp Mounting Parts** 



Figure 21: Battery Adapter



Figure 20: Clamp Mounting



Figure 22: Power Supply

- **Note:** You may provide your own power supply, but it must supply 12-15V at 1 Amp and must be limited to less than 250VA (Watts). If you chose to provide your own, you are still required to purchase the battery adapter cable and battery adapter for final connection to the A500 or T5-Series device.
- **Note:** This configuration does not require you to connect the A500 or T5-Series device to the vehicle's power source. If desired, for operational reasons, A500 or T5-Series devices may be used in VMT configuration using a Honeywell battery.

# Talkman A500/T5 VMT Accessory Specifications

Operating Temperature	-30° to 50° C (-22° to 122° F)
Storage Temperature	-40° to 70° C (-40° to 158° F)

### Mounts for Talkman A700/T5 VMT

The Screw On Mount is a mounting option that is bolted to a stationary surface on a vehicle.

The Clamp Mount is a mounting option that is clamped to a stationary surface on a vehicle. This can also be bolted to a stationary surface, if desired.

The Claw Mount is also clamped to a stationary surface, but can be clamped to oddly-shaped or horizontal or vertical surfaces.



Figure 23: Screw On Mount

Figure 24: Clamp Mount

Figure 25: Claw Mount

## Install the Mounting Brackets

**Warning:** The device must be mounted in accordance with accepted aftermarket practices and materials supplied by Honeywell and/or RAM Mounting Systems. Honeywell does not support Talkman devices which are not mounted in an approved manner. Please note that not mounting Talkman devices in an approved manner may also violate local safety laws and possible cause a safety hazard by damaging Talkman devices and batteries.

Follow these steps to install a mounting bracket.

- 1. Drill the holes required to secure the base to the vehicle. If using the clamp mount, skip this step.
- 2. Screw or clamp a base to the location.

**Tip:** Apply some lubricant (for example, light oil or anti-sieze) to the threads of the clamp mount screws.

- **3.** Attach the other base to the other end of the arm and tighten once in the desired location by turning the locking lever clockwise.
- 4. Screw the device holder to the base.
- **Important:** To prevent vibration, the arm of the mounting bracket should not touch the stem of the ball of the base. In other words, the arm should not be tilted so far that these pieces touch.



# Connecting Cables to the Power Supply and Attaching the Power Supply to a Vehicle

The following parts are supplied by Honeywell for attaching the 12 or 24 volt vehicle's power supply to a device:

Item #	Quantity	Description
1	1	Power Supply, 9-36 VDC Input
2	1	Cable from power supply to battery adapter

The following parts are supplied by Honeywell for attaching the 36 or 48 volt vehicle's power supply to a device:

Item #	Quantity	Description
1	1	Power Supply, 18-60 VDC Input
2	1	Cable from power supply to battery adapter

You will need the following equipment:

- One Cable from the power supply to vehicle's power source. Honeywell recommends an industrial rated cable with the following specifications: Number of conductors = 3, Gauge of wire = 16, Temperature = -40C to 90C
- Cable ties

() CAUTION: General Guidelines for Routing Electrical Cables

- The vehicle must be off and the vehicle's battery must be disconnected.
- Cables should be kept clear of surfaces that may become hot.
- Cables should not be run such that they can get caught on moving parts.
- Cables should not be run on the outside of a vehicle.
- Cables should not have 90 degree turns, the minimum bend radius should not be less than one inch
- To remove slack on a cable it should be coiled up and secured inside the vehicle with a cable tie.
- For maximum safety fuses should be located as close as possible to the power source.
- To protect the A500/T5 VMT from power surges and to perform voltage conversion a converter module is fitted between the A500/T5 VMT and the forklift battery.
- **1.** Disconnect the vehicle battery.
- 2. Remove the four screws from the top of the power supply to expose the screw terminals.
- **3.** On the cable from power supply to the vehicle's power source, strip the three cables to expose approximately 5mm of copper. Ensure the cable is long enough to reach from the power supply to the vehicle's power source.
- 4. On the yellow cable from the battery adapter to the power supply, strip the black and brown cable to expose approximately 5mm of copper. The Blue cable is not required; it can be trimmed where it exits the yellow cable. Ensure the cable is long enough to reach from the power supply to the vehicle's power source.
- 5. Connect the cables from the battery adapter to the power supply by performing the steps below.
  - Loosen the screws to where the connection will be made on the power supply.
  - Match the cables to the correct locations as indicated in the chart below:

Cable	Output Connector
Brown – Battery Adapter Positive	+
Black – Battery Adapter Negative	-
No connection needed	GND
Blue (cut back)	Not applicable

- Tighten the screws.
- Ensure the cables are secure
- 6. Connect the cables from the vehicle's power source to the power supply by performing the steps below:
  - Loosen the screws to where the connection will be made on the power supply.
  - Match the cables to the correct locations as indicated in the chart below:

•	Cable	Input Connector
	White (may differ depending on the cable) – Vehicle Positive	+

Cable	Input Connector
Black (may differ depending on the cable) – Vehicle Negative	-
Green - Vehicle Ground: Follow equipment manufacturer's recommendations for connecting the case ground terminal of the power supply.	GND

- Tighten the screws.
- Ensure the cables are secure
- 7. Once all of the cables have been successfully installed, attach cable ties to secure the cables.



#### Figure 26: Cables Attached to the Power Supply

8. Place the power supply in a place out of the way, such as under the dashboard of a fork lift, and attach it to a secure surface with cable ties. Alternatively the power supply could be secured by bolting it using the mounting slots.



Figure 27: Power Supply Attached to a Secure Surface on the Vehicle

- **9.** Run the cable that connects the battery adapter to the power supply from the power supply to the location where the A500/T5 VMT will be mounted
- **10.** Connect the yellow wire to the battery adapter by attaching the connector and tightening the nut.

#### Connecting the A700/T5 VMT Device to a Vehicle's Power Source

You will need the following equipment:

- Two fuse holders from Cooper Bussman. Honeywell recommends using a Cooper Bussmann HFA series in line waterproof fuse.
- Two fuses. Honeywell recommends a 4A 250V SLO BLO<sup>™</sup> fuse.
- Three spade connectors

- Four small cable ties
- Fasteners

Honeywell recommends choosing unswitched power as the source for the power supply. This will allow Talkman devices to be powered for software updates as well as prevent Talkman devices from accidentally being unpowered if the vehicle is quickly switched off unintentionally.

- 1. Remove all power sources from the vehicle.
- 2. Remove any excess length from the input cable that comes from the power supply.
- **3.** Connect the fuses to the cable near to the battery end of the cable. Remove approximately 4 inches of the outer insulation from the cable.
- 4. Expose approximately 10mm of copper on the positive and negative wires.
- 5. Insert the exposed copper into the fuseholders and crimp into the positive and negative wires using an approved tool.
- 6. Connect the green wire to the vehicle's ground.
- 7. Connect the fused white wire to the vehicle's positive power source using an appropriate connector. This may need to be crimped onto the wire.
- **8.** Connect the fused black wire to the vehicle's negative power source using an appropriate connector. This may need to be crimped onto the wire.
- 9. Attach the power supply as shown in the following diagram.



Figure 28: Attach the Power Supply

10. Secure the wires with cable ties.

#### Removal of an A500/T5 VMT Device from Vehicle

Talkman A500/T5 VMT components are designed for easy removal for occasional vehicle service, maintenance or flexible operational needs.

- (!) **CAUTION:** Honeywell does not recommend removing the cables (CM-710-102) from the battery adapter except when required for occasional service (i.e. once per month at maximum). Excessive removal of these cables may damage the adapter and cable. This type of use is not covered under warranty or service plans as it is unintended product use that is specifically not recommended.
- 1. Release the battery adapter from the device.
- 2. Dock the battery adapter in the side of the VMT holder.

This leaves the device free to be removed and the battery adapter and cable docked and protected.



**CAUTION:** The battery adapter should remain cabled and docked when not in use to prevent cable damage or accidental contact of the adapter contacts with metal surfaces.

#### VMT Installation Best Practices

Talkman devices and accessories are designed to provide reliable service *when used as recommended*. The thousands of Talkman VMT equipment users around the world who have followed the best practices outlined here are enjoying increased productivity with Talkman devices integrated on their vehicles.

#### Do not remove Talkman A500 devices from VMT configurations

Talkman VMT devices were designed and intended for easy installation. They were not designed for frequent removal.

The A730 was designed to be removed from the holster for occasional scanning, not to exceed approximately six times per hour. Even if the A730 is not being removed for scanning, it requires a battery for backup power. Honeywell does not support configurations of the A700 without a battery.

Honeywell recommends that Talkman devices, cables, and VMT battery adapters be left in place after they are installed in vehicles. While these components may be removed for maintenance or temporary use in other areas, they should not be removed as a part of regular operation.

If a Talkman device must be removed, the battery adapter remains in the battery adapter dock.



Figure 29: Battery adapter docked in VMT configuration

**CAUTION:** Frequent removal of the Talkman, battery adapter and/or cable will likely cause a premature mechanical failure to the cable and/or battery adapter. This damage is not covered by normal product warranty.

#### Protect Talkman devices from damage

A Talkman device should be mounted on a vehicle in a location where operators can easily access Talkman controls and where the device is well protected from bumps or damage when the vehicle is in use. While recessed mounting offers good protection, the installer must ensure that this mounting does not interfere with Wi-Fi or Bluetooth<sup>™</sup> connectivity of the Talkman device.



#### Figure 30: Mount locations protected by vehicles but open for good wireless reception

(!) **CAUTION:** Do not mount the device in the driver's area of the vehicle or areas where it can distract the driver.

#### Consider additional options from RAM<sup>®</sup> Mounts

•

The Honeywell parts provided for mounting Talkman devices represent a small set of the mounting options available from RAM Mounts (www.rammount.com). Honeywell only requires that customers purchase the BL-710-1, vehicle mount holder for Talkman. When used with the screw-on base attachment (BL-710-102) or other parts that use a 1" ball mounting, the VMT configuration may require additional parts that can be purchased from RAM Mounts for an optimal installation.



#### Figure 31: Screw on mounting using BL-710-1 vehicle mount holder

In particular, the following standard RAM Mounts parts provide additional mounting flexibility.

Part Description	Part Number	Usage	Image
Double 1" ball adapter	RAM-B-230U	The adapter offers more articulation to maneuver and position the Talkman device in a protected area of the vehicle.	
Double socket arm B Ball A length	RAM-B-201U-A	This arm and other arm lengths offer options for the best vehicle fit.	Relife

Lock parts into place if they might be moved during normal operations

The parts used for mounting the Talkman were designed for a fixed position with easy adjustment. While unlikely, these parts may loosen over time with inadvertent impacts of daily use—especially if the mountings have not been firmly secured or if workers attempt to adjust the mounting manually.

To prevent this issue, remove the user-adjustable handle on the arm and install a 1/4" #20 nylon lock nut provided with the Vocollect VMT kit. The lock nut cannot be loosened by hand and resists most vibrations.

#### Secure VMT cabling

The cables and wiring that connect the Talkman VMT must be well secured to the vehicle so that they do not get caught on anything. Snagged cables could result in an accident and damage to the VMT or vehicle.

(!) **CAUTION:** Separate the cabling from other wiring in the vehicle and ensure that it is routed away from sharp edges.

The cable pictured here will not fall out of alignment and possibly snag anything while the vehicle is in motion. Note that there is enough slack in the cable to its right so that the battery adapter can be removed or installed in the Talkman device.



Figure 32: Cables secured on a vehicle

The cable end that connects to the battery adapter should have enough length to permit easy disconnection and docking of the battery adapter but not so much length that it could become snagged on something.

The cable may be secured to the bottom of the adapter using the two holes on the bottom of the docking area of the adapter. If the cable is secured in this manner, use spiral cable wrap, supplied with the VMT Talkman adapter, to provide additional protection.



Figure 33: Cables secured on a vehicle

To accomplish this mounting:

• Place approximately 2.50 inches of spiral wrap (0.25-inch outer diameter) on the yellow cable with its midpoint at 9 or 10 inches from the cable end connector.

• Using a cable tie (maximum 0.1 inch wide), attach the wrapped section of the cable to the RAM cradle using the holes on the bottom of the adapter docking area as shown.

Cabling inside of the vehicle to the battery adapter should also be secured and maintained neatly to prevent cable travel and accidental damage or shorting. Cables should be kept clear of any articulating members. The full range of articulation should be exercised to ensure that any vehicular operation will not physically compromise the cables.

# Chapter

# 5

# **Talkman T5 Series**

# **Topics:**

- T5-Series Specifications: Talkman T5 and Talkman T5m
- Charging an A500 or T5 Device
- Talkman T5 VMT



Figure 34: Talkman T5





The Talkman<sup>TT</sup> T5 is a compact, lightweight, voice-enabled device with wireless capability that is designed to perform in the harsh conditions of an industrial environment. The Talkman T5*m* is the enhanced memory version with increased memory and data storage.

### **Talkman T5-Series Features**

- Bluetooth<sup>™</sup> compatible radio enables wireless connections to headsets, bar code readers, printers, and other peripherals
- High-performance battery ensures uninterrupted power even in freezing conditions
- Ergonomic design provides user comfort with belt or shoulder harness
- Elastomer device cover protects your investment
- Four-button interface enables easy user interaction

# T5-Series Specifications: Talkman T5 and Talkman T5*m*

Weight	6.50 ounces (184.27 g) With standard battery: 11 20 ounces (317.51 g)	
Length	5 5" (13.97 cm)	
	5.5 (15.97 cm)	
Width	2.63" (6.68 cm)	
Depth	1.7" (4.3 cm)	
I/O Ports	<ul> <li>Headset port (yellow)</li> <li>Maintenance port with audio out and RS-232 serial support</li> </ul>	
Operating Temperature	-22° to 122° F (-30° to 50° C)	
Storage Temperature	-30° to 140° F (-34° to 60° C)	
Drop Tested	Meets the MIL STD -810F specification for shock and vibration. In addition, the device has been tested to the following specifications: • 25 drops from 5 feet (152.4 cm)	
	<ul> <li>10 additional drops from 6 feet (182.88) onto polished concrete</li> <li>10 drops at varying angles from 5 feet at -20° F (-29° C) onto polished concrete</li> </ul>	
Humidity	100% condensing	
Enclosure Rating	IP67	

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.
# Charging an A500 or T5 Device



#### Figure 36: Talkman A500/T5 High-Performance Battery

The A500/T5 battery is a high-performance model. Unlike the T2 series batteries, which have contact points that are flush with the case, the A500/T5 battery features a pin-out design.

(!) **CAUTION:** A500/T5 series batteries and other Honeywell batteries are not interchangeable. If you try to insert the wrong battery into a device, you may damage the device and the battery.

The A500 and T5 devices use a Honeywell Combination Charger that charges the high-performance battery while still seated in a device or when removed from the device.

#### A500/T5 High-Performance Batteries Specifications

The A500 and T5-Series devices use a standard battery.

tandard Battery Weight	4.7 ounces (133.24g)
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#### **Electrical Specifications**

- Cells: The high capacity battery pack uses two lithium ion cells.
  - Voltage = 3.7V
  - Watt Hours = 19WHr
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- The battery pack contains custom electronics that provide performance, temperature, and pack identification to the device. This information is made available to voice management software.
- Battery Charging: The battery pack must be charged only in a Honeywell designated charger.

#### **Mechanical and Environmental Specifications**

- Drop-test specifications: The high capacity battery meets the MIL STD 810F specification for shock and transient drop criteria.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Temperature: -40°C to 55°C (-40°F to 131°F) Humidity: 95% non-condensing Rain/dust: IP67

#### **Battery Notifications**

Battery warnings for a Talkman battery occur at the following levels:

- First warning = 3,45 mV
- Critical warning = 3,350 mV

# Charging an A500 or T5 Battery in a Device

- 1. Remove the device from the belt clip.
- 2. Disconnect any other peripherals.
- 3. Insert the device into an open slot on the charger, pressing down and then back until the device clicks into place.
- 4. After the device has been placed into the charger, make sure that the LED indicator on the device turns on and begins to blink green.
  - a) If the LED does not turn on after 30 seconds, remove the device from the charger slot and then place it into the slot again.
  - b) If the LED indicator still does not turn on, try another charger slot.

**CAUTION:** Do not attempt to place the device into the charger unless you have first disconnected the headset and any other peripheral devices. Do not remove the battery from the device when placing a device into a charger.

# Charging an A500 or T5-Series Battery

- 1. Remove the battery from the Talkman device.
- 2. Hold the battery with its contacts to the bottom and the Vocollect label facing you.



Figure 37: Inserting a Battery Into the Charger

**3.** Place the battery into an open battery slot on the top level of the charger. When the battery is placed into the charger properly, the left LED indicator for the slot into which the battery was placed turns red.



**Note:** The upper set of LED indicators apply to the charger's battery slots and the lower indicators apply to the devices' slots.

# Removing an A500, T2-Series or T5-Series Device From a Charger

The device is ready to use when the LED indicator on the device is blinking green. If the LED is blinking red, the device is not ready to be used.

[] **Important:** If a device continuously displays a solid red light, contact your system administrator.

- 1. Make sure that the device is ready to use.
- 2. Pull up on the device to remove it from the device charger.



#### Figure 38: Removing a Device from a Charger

### Inserting a Battery into a Talkman A500, T5-Series or T2-Series Device

Make sure the battery to be inserted is fully charged.

- 1. Hold the Talkman so that the red and yellow ports are facing away from you.
- 2. Hold the battery with the pins facing away from you and so that the Vocollect logo is on top.
- 3. Place the battery in at an angle, pins end first.



#### Figure 39: Properly Inserting a Battery

**4.** Push the back of the battery into place. You will hear a click when the battery is in place.

**CAUTION:** Do not force the battery into the compartment. You may damage the battery or the device. If the battery does not snap easily into place, reposition the battery in the compartment and try again.

Make sure the battery is firmly in place and can't be removed without pressing the battery release button.

**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

#### Removing a Battery from a Talkman A500, T5-Series or T2-Series Device

Make sure the Talkman device is off.



1. Hold the device in one hand with the battery compartment facing toward you.

2. Press the battery release button all the way down until the top of the battery pops up from the battery compartment.



Figure 40: Removing the Battery From a Device

3. Lift the battery out of the compartment.

# Talkman T5 VMT

A Talkman T5 VMT is a T5-Series device with a battery adapter mounted to a vehicle, such as a forklift or motorized pallet jack. After the device is mounted, the battery adapter is placed in the battery area of the T5-Series device and connected to the vehicle's power source.

Talkman devices in this configuration may use any wired or wireless equipment (headsets, scanners, etc.). Honeywell sells the complete solution including mounting kits and power systems to enable any Talkman T5-Series devices to be used in a T5 VMT configuration.

(!) CAUTION: PLEASE DO NOT LOOK AT DEVICE/UNIT WHILE OPERATING MACHINERY SO AS TO AVOID CREATION OF A DISTRACTION THAT COULD RESULT IN AN ACCIDENT AND BODILY INJURY TO OPERATOR AND THIRD PERSONS.

Follow the instructions below to properly install the device in a forklift.

- Determine the best location for mounting the device, taking into consideration the driver's field of view.
- Install the appropriate mounting hardware.
- Connect the device to the vehicle's wiring system.

# Talkman A500/T5 VMT Accessories

The Talkman A500/T5 VMT is designed to be installed using RAM<sup>®</sup> Mounting Systems hardware. Honeywell supplies a mounting bracket for the A500/T5 and mounting hardware from RAM Mounting Systems. Additional hardware mounting bracket options can be purchased directly from RAM Mounting Systems (www.ram-mount.com) to customize the installation.

The A500/T5 VMT must be mounted to a sturdy surface.



Figure 41: Screw On Mounting Parts



Figure 43: Clamp Mounting Parts



Figure 45: Battery Adapter



Figure 42: Screw On Mounting



Figure 44: Clamp Mounting



Figure 46: Power Supply

- **Note:** You may provide your own power supply, but it must supply 12-15V at 1 Amp and must be limited to less than 250VA (Watts). If you chose to provide your own, you are still required to purchase the battery adapter cable and battery adapter for final connection to the A500 or T5-Series device.
- **Note:** This configuration does not require you to connect the A500 or T5-Series device to the vehicle's power source. If desired, for operational reasons, A500 or T5-Series devices may be used in VMT configuration using a Honeywell battery.

# Talkman A500/T5 VMT Accessory Specifications

Operating Temperature	-30° to 50° C (-22° to 122° F)
Storage Temperature	-40° to 70° C (-40° to 158° F)

### Mounts for Talkman A700/T5 VMT

The Screw On Mount is a mounting option that is bolted to a stationary surface on a vehicle.

The Clamp Mount is a mounting option that is clamped to a stationary surface on a vehicle. This can also be bolted to a stationary surface, if desired.

The Claw Mount is also clamped to a stationary surface, but can be clamped to oddly-shaped or horizontal or vertical surfaces.





Figure 49: Claw Mount

# Figure 47: Screw On Mount

Install the Mounting Brackets

**Warning:** The device must be mounted in accordance with accepted aftermarket practices and materials supplied by Honeywell and/or RAM Mounting Systems. Honeywell does not support Talkman devices which are not mounted in an approved manner. Please note that not mounting Talkman devices in an approved manner may also violate local safety laws and possible cause a safety hazard by damaging Talkman devices and batteries.

Figure 48: Clamp Mount

Follow these steps to install a mounting bracket.

- 1. Drill the holes required to secure the base to the vehicle. If using the clamp mount, skip this step.
- 2. Screw or clamp a base to the location.

**Tip:** Apply some lubricant (for example, light oil or anti-sieze) to the threads of the clamp mount screws.

- **3.** Attach the other base to the other end of the arm and tighten once in the desired location by turning the locking lever clockwise.
- 4. Screw the device holder to the base.
- **Important:** To prevent vibration, the arm of the mounting bracket should not touch the stem of the ball of the base. In other words, the arm should not be tilted so far that these pieces touch.



# Connecting Cables to the Power Supply and Attaching the Power Supply to a Vehicle

The following parts are supplied by Honeywell for attaching the 12 or 24 volt vehicle's power supply to a device:

Item #	Quantity	Description
1	1	Power Supply, 9-36 VDC Input
2	1	Cable from power supply to battery adapter

The following parts are supplied by Honeywell for attaching the 36 or 48 volt vehicle's power supply to a device:

Item #	Quantity	Description
1	1	Power Supply, 18-60 VDC Input
2	1	Cable from power supply to battery adapter

You will need the following equipment:

- One Cable from the power supply to vehicle's power source. Honeywell recommends an industrial rated cable with the following specifications: Number of conductors = 3, Gauge of wire = 16, Temperature = -40C to 90C
- Cable ties

CAUTION: General Guidelines for Routing Electrical Cables

- The vehicle must be off and the vehicle's battery must be disconnected.
- Cables should be kept clear of surfaces that may become hot.
- Cables should not be run such that they can get caught on moving parts.
- Cables should not be run on the outside of a vehicle.
- Cables should not have 90 degree turns, the minimum bend radius should not be less than one inch
- To remove slack on a cable it should be coiled up and secured inside the vehicle with a cable tie.
- For maximum safety fuses should be located as close as possible to the power source.
- To protect the A500/T5 VMT from power surges and to perform voltage conversion a converter module is fitted between the A500/T5 VMT and the forklift battery.
- **1.** Disconnect the vehicle battery.
- 2. Remove the four screws from the top of the power supply to expose the screw terminals.
- **3.** On the cable from power supply to the vehicle's power source, strip the three cables to expose approximately 5mm of copper. Ensure the cable is long enough to reach from the power supply to the vehicle's power source.
- 4. On the yellow cable from the battery adapter to the power supply, strip the black and brown cable to expose approximately 5mm of copper. The Blue cable is not required; it can be trimmed where it exits the yellow cable. Ensure the cable is long enough to reach from the power supply to the vehicle's power source.
- 5. Connect the cables from the battery adapter to the power supply by performing the steps below.
  - Loosen the screws to where the connection will be made on the power supply.
  - Match the cables to the correct locations as indicated in the chart below:

Cable	Output Connector
Brown – Battery Adapter Positive	+
Black – Battery Adapter Negative	-
No connection needed	GND
Blue (cut back)	Not applicable

- Tighten the screws.
- Ensure the cables are secure
- 6. Connect the cables from the vehicle's power source to the power supply by performing the steps below:

- Loosen the screws to where the connection will be made on the power supply.
- Match the cables to the correct locations as indicated in the chart below:

Cable	Input Connector
White (may differ depending on the cable) – Vehicle Positive	+
Black (may differ depending on the cable) – Vehicle Negative	-
Green - Vehicle Ground: Follow equipment manufacturer's recommendations for connecting the case ground terminal of the power	GND
supply.	

- Tighten the screws.
- Ensure the cables are secure
- 7. Once all of the cables have been successfully installed, attach cable ties to secure the cables.



#### Figure 50: Cables Attached to the Power Supply

8. Place the power supply in a place out of the way, such as under the dashboard of a fork lift, and attach it to a secure surface with cable ties. Alternatively the power supply could be secured by bolting it using the mounting slots.



#### Figure 51: Power Supply Attached to a Secure Surface on the Vehicle

- **9.** Run the cable that connects the battery adapter to the power supply from the power supply to the location where the A500/T5 VMT will be mounted
- 10. Connect the yellow wire to the battery adapter by attaching the connector and tightening the nut.

# Connecting the A700/T5 VMT Device to a Vehicle's Power Source

You will need the following equipment:

- Two fuse holders from Cooper Bussman. Honeywell recommends using a Cooper Bussmann HFA series in line waterproof fuse.
- Two fuses. Honeywell recommends a 4A 250V SLO BLO<sup>™</sup> fuse.
- Three spade connectors
- Four small cable ties
- Fasteners

Honeywell recommends choosing unswitched power as the source for the power supply. This will allow Talkman devices to be powered for software updates as well as prevent Talkman devices from accidentally being unpowered if the vehicle is quickly switched off unintentionally.

- 1. Remove all power sources from the vehicle.
- 2. Remove any excess length from the input cable that comes from the power supply.
- **3.** Connect the fuses to the cable near to the battery end of the cable. Remove approximately 4 inches of the outer insulation from the cable.
- 4. Expose approximately 10mm of copper on the positive and negative wires.
- 5. Insert the exposed copper into the fuseholders and crimp into the positive and negative wires using an approved tool.
- 6. Connect the green wire to the vehicle's ground.
- 7. Connect the fused white wire to the vehicle's positive power source using an appropriate connector. This may need to be crimped onto the wire.
- **8.** Connect the fused black wire to the vehicle's negative power source using an appropriate connector. This may need to be crimped onto the wire.
- 9. Attach the power supply as shown in the following diagram.



Figure 52: Attach the Power Supply

**10.** Secure the wires with cable ties.

# Removal of an A500/T5 VMT Device from Vehicle

Talkman A500/T5 VMT components are designed for easy removal for occasional vehicle service, maintenance or flexible operational needs.



CAUTION: Honeywell does not recommend removing the cables (CM-710-102) from the battery adapter except when required for occasional service (i.e. once per month at maximum). Excessive removal of these cables may damage the adapter and cable. This type of use is not covered under warranty or service plans as it is unintended product use that is specifically not recommended.

- 1. Release the battery adapter from the device.
- 2. Dock the battery adapter in the side of the VMT holder.

This leaves the device free to be removed and the battery adapter and cable docked and protected.

CAUTION: The battery adapter should remain cabled and docked when not in use to prevent cable damage or accidental contact of the adapter contacts with metal surfaces.

#### VMT Installation Best Practices

Talkman devices and accessories are designed to provide reliable service when used as recommended. The thousands of Talkman VMT equipment users around the world who have followed the best practices outlined here are enjoying increased productivity with Talkman devices integrated on their vehicles.

#### • Do not remove Talkman A500 devices from VMT configurations

Talkman VMT devices were designed and intended for easy installation. They were not designed for frequent removal.

The A730 was designed to be removed from the holster for occasional scanning, not to exceed approximately six times per hour. Even if the A730 is not being removed for scanning, it requires a battery for backup power. Honeywell does not support configurations of the A700 without a battery.

Honeywell recommends that Talkman devices, cables, and VMT battery adapters be left in place after they are installed in vehicles. While these components may be removed for maintenance or temporary use in other areas, they should not be removed as a part of regular operation.

If a Talkman device must be removed, the battery adapter remains in the battery adapter dock.



Figure 53: Battery adapter docked in VMT configuration

CAUTION: Frequent removal of the Talkman, battery adapter and/or cable will likely cause a premature mechanical failure to the cable and/or battery adapter. This damage is not covered by normal product warranty.

#### Protect Talkman devices from damage

A Talkman device should be mounted on a vehicle in a location where operators can easily access Talkman controls and where the device is well protected from bumps or damage when the vehicle is in use. While recessed mounting offers good protection, the installer must ensure that this mounting does not interfere with Wi-Fi or Bluetooth<sup>TM</sup> connectivity of the Talkman device.



Figure 54: Mount locations protected by vehicles but open for good wireless reception

**CAUTION:** Do not mount the device in the driver's area of the vehicle or areas where it can distract the driver.

#### Consider additional options from RAM<sup>®</sup> Mounts

•

The Honeywell parts provided for mounting Talkman devices represent a small set of the mounting options available from RAM Mounts (www.rammount.com). Honeywell only requires that customers purchase the BL-710-1, vehicle mount holder for Talkman. When used with the screw-on base attachment (BL-710-102) or other parts that use a 1" ball mounting, the VMT configuration may require additional parts that can be purchased from RAM Mounts for an optimal installation.



#### Figure 55: Screw on mounting using BL-710-1 vehicle mount holder

In particular, the following standard RAM Mounts parts provide additional mounting flexibility.

Part Description	Part Number	Usage	Image
Double 1" ball adapter	RAM-B-230U	The adapter offers more articulation to maneuver and position the Talkman device in a protected area of the vehicle.	
Double socket arm B Ball A length	RAM-B-201U-A	This arm and other arm lengths offer options for the best vehicle fit.	Inter

• Lock parts into place if they might be moved during normal operations

The parts used for mounting the Talkman were designed for a fixed position with easy adjustment. While unlikely, these parts may loosen over time with inadvertent impacts of daily use—especially if the mountings have not been firmly secured or if workers attempt to adjust the mounting manually.

To prevent this issue, remove the user-adjustable handle on the arm and install a 1/4" #20 nylon lock nut provided with the Vocollect VMT kit. The lock nut cannot be loosened by hand and resists most vibrations.

#### Secure VMT cabling

The cables and wiring that connect the Talkman VMT must be well secured to the vehicle so that they do not get caught on anything. Snagged cables could result in an accident and damage to the VMT or vehicle.

(!) **CAUTION:** Separate the cabling from other wiring in the vehicle and ensure that it is routed away from sharp edges.

The cable pictured here will not fall out of alignment and possibly snag anything while the vehicle is in motion. Note that there is enough slack in the cable to its right so that the battery adapter can be removed or installed in the Talkman device.



Figure 56: Cables secured on a vehicle

The cable end that connects to the battery adapter should have enough length to permit easy disconnection and docking of the battery adapter but not so much length that it could become snagged on something.

The cable may be secured to the bottom of the adapter using the two holes on the bottom of the docking area of the adapter. If the cable is secured in this manner, use spiral cable wrap, supplied with the VMT Talkman adapter, to provide additional protection.



Figure 57: Cables secured on a vehicle

To accomplish this mounting:

• Place approximately 2.50 inches of spiral wrap (0.25-inch outer diameter) on the yellow cable with its midpoint at 9 or 10 inches from the cable end connector.

• Using a cable tie (maximum 0.1 inch wide), attach the wrapped section of the cable to the RAM cradle using the holes on the bottom of the adapter docking area as shown.

Cabling inside of the vehicle to the battery adapter should also be secured and maintained neatly to prevent cable travel and accidental damage or shorting. Cables should be kept clear of any articulating members. The full range of articulation should be exercised to ensure that any vehicular operation will not physically compromise the cables.

# Chapter

# 6

# **Talkman T2 Series**

# **Topics:**

- T2 Series Specifications: Talkman T2x and Talkman T2
- Charging a T2-Series Device



Figure 58: Talkman T2x

The Talkman<sup>™</sup> T2x is a rugged voice-enabled device that performs to military and international standards. It can withstand the potential impacts, rough handling, water exposure, and corrosive conditions of industrial environments.

#### **Talkman T2-Series Features**

- Wi-Fi network support and ample memory to continue operations during breaks in RF coverage
- Standard and high-capacity battery options meet the varying needs of different warehouses
- High-performance battery ensures uninterrupted power even in freezing conditions
- Ergonomic design and rugged belt clip provide user comfort and easy access
- Four-button interface enables easy user interaction
- Two connection points accommodate peripherals such as scanners or printers

# T2 Series Specifications: Talkman T2x and Talkman T2

Weight	10.80 ounces (306.17 g)
	With standard battery: 15.50 ounces (439.42 g)
	With high-capacity battery: 18.40 ounces (521.63 g)
Length	6.5" (16.51 cm)
Width	3.38" (8.59 cm)
Depth	1.5" (3.81 cm)
	With high-capacity battery: 1.962" (4.98 cm)
I/O Ports	<ul> <li>Headset port (yellow)</li> <li>Maintenance port with audio out and RS-232 serial support (red)</li> <li>Bar code port with RS-232 decoded bar code support (blue)</li> </ul>
Operating Temperature	-22° to 122° F (-30° to 50° C)
Storage Temperature	-30° to 140° F (-34° to 60° C)
Drop Tested	Meets the MIL STD -810F specification for shock and vibration.
	In addition, the device has been tested to the following specifications:
	<ul> <li>25 drops from 5 feet (152.4 cm)</li> <li>10 additional drops from 6 feet (182.88) onto polished concrete</li> <li>10 drops at varying angles from 5 feet at -20° F (-29° C) onto polished concrete</li> </ul>
Humidity	100% condensing
Enclosure Rating	IP67

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

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# **Charging a T2-Series Device**



Figure 59: Talkman T2 Series Battery

The T2 series battery is available in standard and high-capacity models. The standard battery sits flush with the top of the device when installed. The high-capacity battery has a longer run time than the standard capacity battery.



**CAUTION:** T2 series and A500/T5 series batteries are not interchangeable. If you try to insert the wrong battery into a device, you may damage the device and the battery.

The T2-Series battery is designed to be charged while still seated in the device.

# **T2 Series High Capacity Battery Specifications**

The T2x device can use a standard or high-capacity battery.

Standard Battery Weight	4.7 ounces (133.24g)
High-Capacity Battery Weight	7.6 ounces (215.46g)

#### **Electrical Specifications**

- Cells: The high capacity battery pack uses four lithium ion cells.
  - Nominal voltage = 7.2V
  - Watt Hours = 27WHr (standard T2x battery is 14WHr)
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- Thermistor: The battery pack contains a negative temperature coefficient thermistor. The charger uses the voltage drop across the thermistor to determine that the battery pack is within the proper charging temperature limits.
- Battery ID: The battery pack contains a Dallas Semiconductor DS2401 serial ID chip. In future enhancements to both the device and the device software, this chip will be used to provide data about features such as battery life, capacity monitoring and asset tracking.
- Battery Charging: The battery pack must only be charged in a Honeywell designated charger.

#### **Mechanical and Environmental Specifications**

- Drop-test specifications: The high capacity battery meets the MIL STD 810F specification for shock and transient drop criteria.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust.
- The battery functions properly in the following conditions:

Temperature: -20°C to 50°C (-4°F to 122°F) Humidity: 95% non-condensing Rain/dust: IP67

#### **Battery Notifications**

Battery warnings for a Talkman battery occur at the following levels:

- First warning = 3,550 mV
- Critical warning = 3,350 mV

## **Charging a T2 Series Device**

- 1. Make sure the charger is powered. The charger's orange power light (LED indicator) is lit when the charger is powered.
- 2. Sign off of the device if necessary.
- 3. Press and hold the yellow play/pause button until the LED indicator turns solid red and then turns off.

**Note:** It is not necessary to turn the device off before placing it into the charger.

- 4. Remove the device from the belt clip.
- 5. Disconnect any other peripherals. If the device is in a cover, remove the cover.
- 6. Insert the device into one of the device charger slots with the button controls of the device to the top and facing toward the left.



Figure 60: Inserting a T2 Series Device Into a Charger

- (!) **CAUTION:** Do not attempt to place the device into the charger unless you have first disconnected the headset and any other peripheral devices. Do not remove the battery from the device when placing the device into a charger.
- 7. After the device has been placed into the charger, make sure that the LED indicator on the device turns on and begins to blink green.
  - a) If the LED does not turn on after 30 seconds, remove the device from the charger slot and then place it into the slot again.
  - b) If the LED indicator still does not turn on, try another charger slot.

(!) CAUTION: If the LED indicator on a device is blinking red, do not remove the device from the charger.

#### Removing an A500, T2-Series or T5-Series Device From a Charger

The device is ready to use when the LED indicator on the device is blinking green. If the LED is blinking red, the device is not ready to be used.

- [] Important: If a device continuously displays a solid red light, contact your system administrator.
- 1. Make sure that the device is ready to use.
- 2. Pull up on the device to remove it from the device charger.



Figure 61: Removing a Device from a Charger

### Inserting a Battery into a Talkman A500, T5-Series or T2-Series Device

Make sure the battery to be inserted is fully charged.

- 1. Hold the Talkman so that the red and yellow ports are facing away from you.
- 2. Hold the battery with the pins facing away from you and so that the Vocollect logo is on top.
- 3. Place the battery in at an angle, pins end first.



#### Figure 62: Properly Inserting a Battery

**4.** Push the back of the battery into place. You will hear a click when the battery is in place.



**CAUTION:** Do not force the battery into the compartment. You may damage the battery or the device. If the battery does not snap easily into place, reposition the battery in the compartment and try again.

Make sure the battery is firmly in place and can't be removed without pressing the battery release button.



**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

# Removing a Battery from a Talkman A500, T5-Series or T2-Series Device

Make sure the Talkman device is off.

- (!) **CAUTION:** Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.
- 1. Hold the device in one hand with the battery compartment facing toward you.
- 2. Press the battery release button all the way down until the top of the battery pops up from the battery compartment.



Figure 63: Removing the Battery From a Device

3. Lift the battery out of the compartment.

# Chapter

# Talkman T1

# **Topics:**

- T1 Specifications: Talkman T1
- Charging the T1



#### Figure 64: Talkman T1

The Talkman<sup>™</sup> T1 is Honeywell's light industrial voice-enabled device for dry, non-freezer environments. The device is worn in a holster and is designed to be used only with the Vocollect SL-4 Light Industrial Behind-the-Head Headset.

This device and headset solution is ideal for less noisy work areas because the SL-4 speaker sits farther from the head than in Vocollect's SR-Series headsets. As a result, users must set the device volume to a level appropriate for their environments. The Talkman T1 speech recognition performance, however, is comparable to the rest of the Talkman line of devices.

Weight	5.3 ounces (150 g) (with battery)
Length	100 mm
Width	51.5 mm
Depth	24 mm
Operating Temperature	32° to 122° F (0° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	<ul><li>The device is not designed to be repeatedly dropped. The device has been tested to the following specifications:</li><li>18 drops from 4 feet</li></ul>
Humidity	5 to 95% non-condensing
Enclosure Rating	IP54

# T1 Specifications: Talkman T1

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

# **Charging the T1**

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The T1 battery is designed to be charged either while still seated in the device or separately in a Honeywell charger.

**Note:** A fully depleted T1 battery requires 4.5 to 5 hours to charge.

# **T1 Batteries Specifications**

#### **Electrical Specifications**

- Cells: The battery pack uses one lithium ion cell.
  - Nominal voltage = 3.7V
  - Watt Hours = 7.3WHr
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- The battery pack contains custom electronics for temperature measurement.
- Battery Charging: The battery pack must be charged only in a Vocollect designated charger.

#### **Mechanical and Environmental Specifications**

- Drop-test specifications: The battery meets the transient drop criteria.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Operating Temperature: 0°C to 50°C (32°F to 122°F) Storage Temperature: -40°C to 70°C (-40°F to 158°F) Humidity: 95% non-condensing Rain/dust: IP54

#### **Battery Notifications**

Battery warnings for a Talkman battery occur at the following levels:

- First warning = 3,550 mV
- Critical warning = 3,350 mV

# Charging a T1 Battery in a Device

- 1. Remove the device from the holster.
- 2. Disconnect the headset from the device.
- 3. Insert the device into an open slot on the charger.
- 4. After the device has been placed into the charger, make sure that the LED indicator on the device turns on and is green.
  - a) If the LED does not turn on after 30 seconds, remove the device from the charger slot and then place it into the slot again.
  - b) If the LED indicator still does not turn on, try another charger slot.
- (!) **CAUTION:** Do not attempt to place the device into the charger unless you have first disconnected the headset.

# Charging a T1 Battery in a T1 10-Bay Combination Charger

- **1.** Remove the battery from the Talkman device.
- 2. Hold the battery with its contacts to the top and facing away from you.
- 3. Place the battery into an open battery slot on the front of the charger.

# Charging a T1 Battery with a T1 Single Charger Cable

- 1. Grasp and squeeze the sides of the I/O connector on the cable.
- 2. Attach the I/O connector onto the T1's connectors and release the I/O connector. Ensure the flush side of the I/O connector faces front with the device's front.
- **3.** Insert the other end of the charging cable into the barrel jack on the plug cable.
- 4. Plug the charger into an electrical outlet.

# Removing a T1 Device From a T1 10-Bay Combination Charger

- **Note:** The device is ready to use when the LED indicator on the device is green. If the LED is amber, the device is not ready to be used.
- [] **Important:** If a device displays a solid red light, contact your system administrator.
- 1. Make sure that the device is ready to use.
- 2. Pull up on the device to remove it from the device charger.

# Disconnecting a T1 Device from a T1 Single Charger Cable

**Note:** The device is ready to use when the LED indicator on the device is green. If the LED is amber, the device is not ready to be used.

- Important: If a device's LED continuously displays red, contact your system administrator.
- 1. Unplug the charger from the electrical outlet.
- 2. Gently remove it from the T1 device by squeezing the sides of the I/O connector on the cable. Do not pull the cable wire.

## Inserting a Battery into a Talkman T1 Device

Make sure the battery to be inserted is fully charged.

- 1. Hold the Talkman with the battery compartment facing you.
- 2. Hold the battery with the contacts facing to the bottom and away from you.
- 3. Place the battery in at an angle, non-contact end first.
- **4.** Push the bottom of the battery into place.

You will hear a click when the battery is in place.

**CAUTION:** Do not force the battery into the compartment. You may damage the battery or the device. If the battery does not snap easily into place, reposition the battery in the compartment and try again.

Make sure the battery is firmly in place and can't be removed without pressing the battery release button.

**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

#### Removing a Battery from a Talkman T1 Device

Make sure the Talkman device is off.

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- (!) CAUTION: Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.
- 1. Hold the device in one hand with the battery compartment facing toward you.
- 2. Push the battery release button up and pull the battery out.

# Chapter

# 8

# **Talkman MP Solution**



# **Honeywell Wired Headsets**

An operator uses a headset with a microphone to interact with a device by hearing and responding to instructions. Based on the operator's responses, the device transmits data messages back to the host computer.

Honeywell offers a variety of wired headsets designed for different environments and wearing preferences. The SR-20 tends to be the most popular general use headset. Other models provide behind-the-head, light industrial, and hardhat options. Headset features include:

- Bidirectional noise-canceling microphones for optimal noise cancelation.
- Windscreen to reduce breathing and other background noises that can make it hard for the device to understand what an operator is saying.
- Sealed components to prevent corrosion.
- Dual strap, padded, stainless steel headbands for increased comfort and stability.
- Single strap, lightweight headbands for a personalized fit.
- Single-cup models with single ear cups that pivot vertically and horizontally and can be worn on either ear.
- Dual-cup model for added noise reduction in loud work environments.
- Foam ear pads for quick and easy replacement.
- A rotating lever on the outside of the earpiece for moving the microphone up and down without causing stress on the microphone boom.
- Repeatable microphone position; a groove catches the boom, placing it in the proper position when the boom is swiveled down for operation.

The headsets, microphones, cords, and connectors used with the Voice<sup>TM</sup> system are delicate pieces of electronic equipment. Proper care will ensure that they work well for a long time.

See Care and Use of Headsets and Microphones for more information.

**Important:** For maximum hygiene, Honeywell discourages sharing headsets among operators. The design of the SRX2 Wireless Headset features an electronics module that can be removed from the headband and windscreen. The electronics module can be shared among operators over multiple shifts, providing some level of hygiene while potentially reducing costs.

# Chapter 10

# **Honeywell Wireless Headsets**

# **Topics:**

- Vocollect SRX Wireless Headset
- Vocollect SRX2 Wireless
   Headset
- About Pairing Wireless Headsets
- Care and Use of Headsets and Microphones

An operator uses a headset with a microphone to interact with a device by hearing and responding to instructions. Based on the operator's responses, the device transmits data messages back to the host computer.

The Vocollect <sup>™</sup> SRX and SRX2 speech-recognition headsets feature industrial grade use of Bluetooth Wireless Technology. These wireless headsets manage the quality of voice input/output, have no cables to connect, and remain connected to a device up to ten meters away.

**Note:** Verify support for your device in the release notes for your version of Vocollect Voice software or contact your Honeywell sales representative.

Vocollect SRX and SRX2 wireless headset features include:

- Bidirectional noise canceling microphones for optimal noise cancellation.
- Windscreen to reduce breathing and other background noises that can make it hard for the device to understand what an operator is saying.
- Sealed components to prevent corrosion.
- Padded, lightweight headbands for increased comfort and personalized fit.
- Single ear cups that pivot vertically and horizontally and can be worn on either ear.
- Foam ear pads for quick and easy replacement.
- A rotating lever on the outside of the earpiece for moving the microphone up and down without causing stress on the microphone boom.
- Repeatable microphone position; a groove catches the boom, placing it in the proper position when the boom is swiveled down for operation.

The headsets and microphones used with the Honeywell Voice system are delicate pieces of electronic equipment. Proper care will ensure that they work well for a long time.

See Care and Use of Headsets and Microphones for more information.

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# **Vocollect SRX Wireless Headset**



Figure 66: SRX Wireless Headset

The Vocollect <sup>™</sup> SRX speech-recognition headset features industrial grade use of Bluetooth Wireless Technology. The SRX headset manages the quality of voice input/output in the headset itself, has no cables to connect, and remains connected to a device at up to 10 meters away.

- **Note:** SRX is not supported with WT41N0 Wearable Terminal
- Pairing modes on the headset can only be entered from the powered off state.
- It is best to pair in an area where you are at least three feet away from another Bluetooth device. This helps ensure your headset does not accidentally pair with the wrong device.
- The SRX remembers its last pairing and will reconnect only with that device. It will not respond to paging or inquiries from other devices until it is placed in pairing mode again.
- When it is not paired with a device, the SRX headset volume can only be adjusted using the buttons on the headset.
- When the SRX headset is paired with a device, volume can be adjusted by pressing the Plus and Minus buttons on the headset or device.
- The SRX headset remembers its last volume setting when powered off and back on, and across battery removals and replacements. The last volume setting used while paired with a wearable computer is saved with the operator's profile. This volume level will be restored to the SRX headset upon reconnection. However, the headset volume may be different upon reconnection if the volume was changed while it was not connected to a device, or if a different operator used the headset.

A padded Velcro<sup>™</sup> mobility strap fits across the back of the user's head to provide extra stability.

# **SRX Wireless Headset Specifications**

Weight	7.5 ounces (215 g) with battery
	5.3 ounces (155g) without battery
Operating temperature	32°F to 104°F (0°C to 40°C)
Storage temperature	-40°F to 122°F (-40° to 50°C)
Drop Tested	• 25 drops from 6 feet (1.8 m) at minimum and maximum operating temperatures
Enclosure rating	Meets IP54

Humidity	5-95% non-condensing
Noise Reduction Rating	Not applicable

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

## **Charging the SRX Headset**



#### Figure 67: SRX Wireless Headset High-Performance Battery

A fully depleted SRX Wireless Headset battery will be fully recharged in less than 4 hours.

A fully charged SRX Wireless Headset battery has 3.7 volts. When the charge depletes to 3.3 volts, the user will hear a spoken warning, "Headset battery is getting low. Change headset battery now." and the warning will also be displayed in debug.

#### **SRX Battery Specifications**

#### **Electrical Specifications**

- Cells: The high capacity battery pack uses two lithium ion cells.
  - Nominal voltage = 3.7V
  - Watt Hours = 7WHr
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- The battery pack contains custom electronics that provide performance, temperature, and pack identification to the device. This information is made available to voice management software.
- Battery Charging: The battery pack must be charged only in a Honeywell designated charger.

#### **Charging SRX Wireless Headset Batteries**

- [! Important: Once an *SRX* battery is placed in the charger, it must remain in the charger for a minimum of five seconds. This allows the charger sufficient time to analyze the state of the battery. Removing the battery during this five second interval may cause the LED indicator on the charger to display an incorrect battery status.
- [! Important: Do not force the battery into the compartment. Doing so may result in damage to the battery or the headset. If the battery does not snap easily into place, reposition the battery in the compartment and try again.

#### Note:

• A battery is fully charged and can be removed from the charger when the left and right LED indicators for that slot on the charger are green.

- If you insert a fully charged battery into a charger, the charger will analyze the battery's status and then "top off" the battery's charge. During this process, the left LED indicator for that slot on the charger is red. It may take several minutes for this process to complete, at which time both LED indicators for that slot turn green.
- 1. Make sure the battery charger is powered. The green LED indicator on the end of the battery charger should be lit.
- 2. Power off the headset by pressing and holding the Plus and Minus buttons on the earpiece for three seconds and then remove the battery.
- **3.** Hold the battery with its contacts to the bottom and the Vocollect logo facing toward you, and insert it into an empty slot on the battery charger.
- 4. Press down on the battery until it snaps into place.
- 5. Make sure the battery is firmly in place and cannot be removed without pressing the battery release button.

#### Inserting a Battery into the SRX Wireless Headset

- **Important:** Do not force the battery into the compartment. Doing so may result in damage to the battery or the headset. If the battery does not snap easily into place, reposition the battery in the compartment and try again.
- 1. Make sure the battery is charged. A battery is fully charged and can be removed from the charger when the left and right LED indicators for that slot on the charger are green.
- 2. Hold the headset with the battery compartment facing toward you.
- **3.** Place the end of the battery with the contacts into the compartment first so that the contacts on the bottom of the battery line up with the contacts in the compartment.
- 4. Press down on the battery until it snaps into place.
- 5. Make sure the battery is firmly in place and cannot be removed without pressing the battery release button.

**Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety* 

#### Removing a Battery from an SRX Wireless Headset

- [] **Important:** Do not remove the battery until the LED indicator on the headset is off.
- 1. Power off the headset by pressing and holding the Plus and Minus buttons on the earpiece for three seconds.
- 2. Hold the headset with the battery compartment facing toward you.
- **3.** Pull the battery release button, located on the left side of the battery compartment, away from the battery until the end of the battery pops up from the compartment.
- 4. Lift the battery out of the compartment.

#### Wearing an SRX Wireless Headset

Make sure the Velcro mobility strap is installed on the headset.

- 1. Put the headset on and adjust the ear pad to fit snugly over your ear.
- 2. Position the battery compartment directly above, and as closely as possible to, your other ear.
- 3. Adjust the mobility strap so it fits securely across the back of your head.



Figure 68: Mobility Strap Worn Properly

4. Swing the microphone into position with the rotating lever at the earpiece.



Figure 69: Moving the Microphone Into Position

**5.** Make final adjustments with the flexible boom so that the microphone is positioned correctly. Position the microphone as close to your mouth as possible, but outside of your breath stream. It should be facing your upper lip, and not touching anything (for example, clothing, skin, or facial hair).

# **Vocollect SRX2 Wireless Headset**



Figure 70: SRX2 Wireless Headset

The Vocollect SRX2 Wireless Headset is the second generation wireless headset from Honeywell that has been designed to provide better recognition accuracy, work across all environments and create a more comfortable experience for the users.

When used with Vocollect VoiceCatalyst and VoiceCatalyst MP software, the SRX2 headset with Vocollect SoundSense<sup>™</sup> Technology provides significant voice recognition benefits. This technology can increase speed and accuracy, especially in noisy or fast-paced environments.

The highlights of the product are:

- Better recognition with Vocollect SoundSense<sup>™</sup> Technology (50% reduced insertions with multi-array microphones) when used with VoiceCatalyst software
- Freezer certified with full shift battery life
- · Separate headband and electronics modules to enable headset sharing
- · Enhanced comfort and ergonomics for long hours of use

In addition, the modular design of the headset enables a much lower cost per user through the shared use of headset electronic modules across multiple shifts.

Other features include:

- Faster, easier pairing with Vocollect TouchConnect<sup>™</sup> Technology (with RFID reader equipped Voice-enabled devices)
- Bluetooth Version 2.1
- Headset tracking and management with VoiceConsole 4.2
- Simple and intuitive interaction indicators
- Headset battery management and life prediction with VoiceConsole 4.2
- Field upgradeable headset software for future proofing
- Enhanced audio quality and response times
- · Increased adjustability for larger variety of head sizes and shapes
- · Backward compatibility in SRX mode for VoiceClient and older versions of VoiceCatalyst software
- **Note:** Many of these new features are available only with VoiceCatalyst 1.2 and VoiceConsole 4.2 and newer.

# **SRX2 Wireless Headset Specifications**

Weight	<ul><li>6.84 ounces (194 g) with stability strap</li><li>6.46 ounces (183 g) without strap</li></ul>
Operating temperature	-22°F to 122°F (-30°C to 50°C)
Storage temperature	-40°F to 158°F (-40° to 70°C)
Drop Tested	<ul> <li>24 drops from 6 feet (1.83 m) at minimum and maximum operating temperatures</li> <li>12 drops from 7 feet (2.13 m) at minimum and maximum operating temperatures</li> </ul>
Enclosure rating	Meets IP54 with battery inserted
Humidity	5-95% condensing
Noise Reduction Rating	Not applicable

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

# SRX2 Modular Design

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The SRX2 Wireless Headset introduces a modular design to the Vocollect headset product line. The potential for shared use of electronics modules across multiple shifts can lower the cost per user.

To avoid passing germs between operators when sharing headsets, Honeywell recommends sharing only the electronics module. Assign each operator his or her own headband, ear pad, and microphone cap.



Figure 71: SRX2 headband and electronics module



#### Sharing the SRX2 Headset

By separating the parts of the modular SRX2 headset, operators can share electronics modules in a multi-shift operation.

- The electronics module detaches easily from the headband .
- The microphone cap detaches from the electronics module and docks in the mic cap pocket on the headband.
- The electronics module can be disinfected with an alcohol wipe.

#### **Operator Profiles and Shared Headsets**

Vocollect Voice Software (VoiceClient and VoiceCatalyst), along with VoiceConsole provide a feature called Automatic Operator Load. This feature enables a Honeywell device to recognize and load the profile of the operator who last used the headset, based on the unique ID of the electronics module.

With automatic operator loading, operators who always use the same headset can start their shifts faster. When multiple operators share an electronics module, however, automatic operator loading may not be effective.

#### Disabling automatic operator loading in the voice software task package settings:

- 1. Using VoiceConsole, edit the task package that is being used.
- **2.** Set the parameter AutoOperatorLoadEnable to zero (0).
- 3. Save your changes and load the modified task package onto the devices. See *VoiceConsole Help* for detailed steps.
- 4. Operators must use the Plus (+) or Minus (---) buttons to scroll through the list of operators to load their voice profiles.

# Attaching the SRX2 Electronics Module to a Headband

- 1. Position the SRX2 electronics module with the button controls facing away from the headband.
- 2. Insert the speaker on the back of the electronics module into the pocket on the earpiece hub by aligning the notches on the speaker and hub pocket.


#### Figure 73: Attaching the electronics module

3. Push the electronics module into the hub pocket until it is firmly seated.

## Removing the SRX2 Electronics Module from a Headband

- **Important:** Do not squeeze the battery latches on the sides of the electronics module while removing it from the headband. The battery may be inadvertently released from the electronics module.
- 1. Grasp the *SRX2* electronics module with one hand, pressing your thumb and fingertips into the gap between the electronics module and earpiece hub.
- 2. With the other hand, hold the headband by the earpiece hub.
- 3. Pull the electronics module away from the earpiece hub.

#### Charging the SRX2 Headset



Figure 74: SRX2 Wireless Headset High-Performance Battery

The SRX2 Wireless Headset is powered by a rechargeable lithium ion battery pack.

A fully depleted *SRX2 Wireless Headset* battery will be fully recharged in less than 6 hours. The headset user will hear the following warnings when the battery charge is low.

Battery Condition	Audio Warning
When battery voltage is low	"Headset battery is getting low."
When battery voltage is critically low and about to turn off	"Headset battery is getting low. Change headset battery now."

#### SRX2 Battery Specifications

#### **Electrical Specifications**

- Cells: The battery pack uses a single lithium ion cell.
  - Nominal voltage = 3.6V
  - Watt hours = 2.7 WHr
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cell and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- The battery pack contains custom electronics that provide performance, temperature, and pack identification to the device. This information is made available to voice management software.
- Battery Charging: The battery pack must be charged only in a Honeywell designated charger.

#### Mechanical and Environmental Specifications

- Drop-test specifications: The battery meets the transient drop criteria.
  - 24 drops at 6 feet (182.88 cm)
  - 12 drops at 7 feet (213.36 cm)
- Environmental specifications: The battery functions properly in the following conditions:

Temperature: -22°F to 122°F (-30°C to 50°C) Humidity: 95% non-condensing Rain/dust: IP54

#### **Battery Notifications**

The SRX2 battery triggers two warnings based on remaining runtime:

Battery Condition	Audio Warning
When battery voltage is low	"Headset battery is getting low."
When battery voltage is critically low and about to turn off	"Headset battery is getting low. Change headset battery now."

#### **Charging SRX2 Wireless Headset Batteries**

- **Important:** Once an *SRX2* battery is placed on a port in the charger, it must remain in the charger for a minimum of five seconds. This allows the charger sufficient time to analyze the state of the battery. Removing the battery during this five second interval may cause the LED indicator on the charger to display an incorrect battery status.
- Note:
  - A battery is fully charged and can be removed from the charger when the ring LED indicator light for that port on the charger is green.
  - If you insert a fully charged battery into a charger, the charger will analyze the battery's status and then "top off" the battery's charge. The ring LED indicator light for that port will be yellow during this process. When complete, the ring LED indicator will turn green.

- 1. Make sure the battery charger is powered. To power on the charger, connect the power supply to the charger and a power source. The LED indicator light at the bottom right of the charger face panel should be solid green.
- 2. Power off the headset by pressing and holding the Power button on the electronics module for approximately one second.
- **3.** Remove the battery from the headset electronics module.
- 4. Hold the battery with the Vocollect logo facing toward you, and push it onto an empty port on the battery charger until it snaps into place.
- 5. E Note: See the chart on SRX2 Battery Charger LED Indicators for more information on LED patterns.

Make sure that the battery is properly mounted on the charger port. The ring LED indicator light will turn yellow or green when the battery contacts connect to the charger port contacts. If the ring LED blinks red, the battery is not seated properly. Remove the battery, and mount it on the port again.

6. When the ring LED indicator turns a solid green, the battery is fully charged. Pull the battery off the charger port to insert it into an *SRX2* headset electronics module.

#### Inserting a Battery into the SRX2 Wireless Headset

- 1. Make sure the battery is charged. A battery is fully charged and can be removed from the charger when the LED ring indicator on the charger port for that battery is green.
- 2. Position the headset electronics module with the buttons facing toward you.
- **3.** Hold the battery with the label side down and contacts facing the open end of the electronics module opposite the mic boom.
- 4. Push the battery onto the electronics module until it clicks in place.



- 5. Make sure the battery is firmly in place and cannot be removed without pressing the battery release latches.
- **Warning:** Replace a battery only with another battery that has been authorized by Honeywell for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard. See also *Honeywell Battery Safety*

#### **Removing a Battery from an SRX2 Wireless Headset**

- [] **Important:** Do not remove the battery from the *SRX2* headset until the LED indicator on the headset is off.
- 1. Power off the headset by pressing and holding the Power button on the electronics module for one second.
- 2. Grasp the headset by the sides of the electronics module with your thumb and fingers on the black battery latches.



#### Figure 75: Battery Latches for Removing SRX2 Battery

- 3. With your other hand, hold the battery at the end of the electronics module opposite the mic boom.
- 4. Press and hold both battery latches at the same time, squeezing them into the sides of the electronics module until the battery releases from the electronics module.

#### Wearing an SRX2 Wireless Headset

1. Put the headset on and adjust the ear pad to fit snugly over your ear.



Figure 76: Wearing the SRX2 headset

- 2. Position the t-bar directly above, and as closely as possible to, your other ear.
- 3. If installed, adjust the stability strap so it fits securely across the back of your head.
- 4. Rotate the electronics module up or down to position the microphone near your mouth.



#### Figure 77: Moving the Microphone Into Position

**5.** Make final adjustments with the flexible boom so that the microphone is positioned correctly. Position the microphone as close to your mouth as possible, but outside of your breath stream. It should be facing your upper lip, and not touching anything (for example, clothing, skin, or facial hair).

## Headset Functions and LED Patterns for SRX2



#### Figure 78: SRX2 User Interface

Headset Function	User Action	Headset Mode	LED Pattern	Tone
Power on	Press Power button for half a second	Headset powers up in low power pairing mode	Solid green	High pitch double beep
Power off	Hold Power button for one second	Headset powers off	Solid green, then off Important: Do not remove the battery until the LED is off.	Low pitch double beep
Increase volume	Press the Plus (+) button	N/A	N/A	Two tone ascending sequence. If

Headset Function	User Action	Headset Mode	LED Pattern	Tone
				connected, device says, "louder."
Decrease volume	Press the Minus (-) button	N/A	N/A	Two tone descending sequence. If connected, device says, "softer."
Force disconnect for manual pairing in low power mode	With headset connected, press the Plus (+) and Minus (-) buttons	Headset disconnects current pairing and enters low power pairing mode	Solid green	No tone when entering mode. Three ascending tones upon pairing with a device
Switch to high power pairing when pairing in low power mode has failed	With headset in pairing mode, press the Plus (+) and Minus (-) buttons	Headset enters high power pairing mode Note: This mode is recommended only if low power pairing fails. Note: Honeywell does not recommend this pairing mode for Talkman devices. This mode greatly increases the likelihood that your headset will pair with the wrong device.	Rapid flash, then solid green	No tone when entering mode. Three ascending tones upon pairing with a device
Normal operation, paired and connected	N/A	Headset connected as a slave device	Slow flashing blue (on 25%, off 75%)	Three ascending tones upon connecting to master device
Paired but connection dropped, possibly out of range	N/A	Headset connectable but not discoverable. Any Bluetooth device can connect if it knows the headset's address.	Slow flashing green (on 25%, off 75%)	Three descending tones when the connection to the master device is dropped
Update headset software	Connect headset to computer running Vocollect Headset Software Update Tool	Device update	Solid blue when plugged in, off during update, returns to solid blue when update complete	N/A

## **Vocollect SRX2 Hard-Hat Headset**

In environments where operators must wear hard hats, the standard over-the-head headset is not a viable option. The Vocollect<sup>®</sup> SRX2 Hard-Hat headset has a built-in clip that attach the SRX2 earpiece, electronics module, and microphone to most industrial hard hats. The Hard-Hat headset supports most hard-hat models commonly used in the United States, Europe, and Japan.



Figure 79: SRX2 Hard Hat Headset

When using the TouchConnect<sup>M</sup> feature to pair the SRX2 Hard Hat Headset with a Talkman A700 Series device, you can obtain the operator ID by touching the device to the O symbol located on the outside of the headset earcup.

SRX2 H	lard-Hat	Headset	Specificati	ons
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Weight	2.47 ounces (70g)
Operating temperature	-22°F to 122°F (-30°C to 50°C )
Storage temperature	-40°F to 158°F (-40°C to 70°C)
Drop Tested	Excludes clips and attachment

	<ul> <li>12 drops from 7 feet (2.1 m) at minimum and maximum operating temperatures</li> <li>24 drops from 6 feet (1.8 m) at varying angles and at minimum and maximum operating temperatures</li> </ul>
Enclosure rating	Meets IP54
Humidity	5-95% condensing
Noise Reduction Rating	≥10.5 dB

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

#### Installing the SRX2 Hard-Hat Clip

The SRX2 Hard-Hat headset attaches to the side of a hard hat using a clip that must be mounted on the hard hat. Honeywell offers two clip styles, one designed to insert in a hard-hat slot and one that mounts over the side brim of a non-slotted hard hat. Other hard-hat clips may be purchased and used provided that they fit the hard hat and attach correctly to the SRX2 earcup. Vendors such as Howard Leight<sup>™</sup> offer these products.

**Note:** The hard-hat clips are not designed for frequent removal. It may be necessary to order extra clips if users intend to alternate wearing the headset earcup on the left and right sides.

#### • Inserting a slotted-mount clip in a hard hat

- a) Position the clip with the tab pointing into the slot on the side of the hard hat.
- b) The angle of the clip should follow the contour of the hard hat with the rubber stops on the back side of the clip facing the hard hat.
- c) Align the tab of the clip to fit into the slot.



#### Figure 80: Inserting Clip into Hard-Hat Slot

d) Slide the clip into the slot until the tab clicks in place and it is firmly seated.

#### • Mounting a brim-mount clip on a hard hat

- a) Loosen the screws that secure the two clip brackets to the clip.
   For large brim hats, it may be necessary to remove the brackets completely in order to fit them over the brim without the clip in place.
- b) From the under side of the hat, slide the brackets over the brim. If the brackets were removed, slide the bracket ends back under the screws in the clip.
- c) Position the clip on the outside of the hard hat, centered on the side of the hat.



Figure 81: Mounting a brim-mount clip on a hard hat

- d) Tighten the screws to secure the bracket and clip to the hard hat.
- Removing a clip from a hard hat
  - a) For a slotted-mount clip, push the end of the spring arms from under the brim in until they fit back through the slot. It may be necessary to use a tool to pry the arms from their installed position.
  - b) For a brim-mount clip, loosen the bracket screws and slide the brackets and clip off the hard hat.

#### Attaching the SRX2 to a Hard Hat

With an SRX2 Hard-Hat Headset clip mounted on the side of a hard hat, the headset's fork and disk assembly snaps securely onto the hat.

- 1. Insert the disk into the hard-hat clip from the top.
- 2. Slide the disk into the clip until it snaps into place.



Figure 82: Attaching the headset to a hard hat

To remove the headset, apply pressure to the tab at the top of the hard-hat clip to release the disk from the clip. Then slide the disk up and out of the clip. It may be necessary to use a tool, such as a flat-head screwdriver, to press the tab.

#### Wearing the SRX2 Hard-Hat Headset

The SRX2 Hard-Hat Headset fork and disk assembly has two lock positions that allow for easy wearing, removing and storing the hard hat with the headset attached. The inner position keeps the earcup snug to the ear; the outer position enables the headset to be swiveled in the clip without causing wear to headset parts or to the hard hat.

- 1. Hold the hard hat firmly.
- 2. Push the headset earcup in toward the head area of the hat until it snaps into its inner position.



Figure 83: Headset lock positions

- **3.** Slide the hard hat onto your head, pulling the earcup out as needed, then position the hat so the earpad is snug against your ear.
- 4. If the earpad sits too low or high on your ear, take off the hard hat and adjust the earcup by pulling or pushing the arms of the fork out of or into the fork sleeves.



Figure 84: Adusting the height of the earcup

- 5. Insert the SRX2 electronics module into the pocket on the earcup by aligning the notches on the speaker and earcup pocket.
- 6. Push the electronics module into the earcup pocket until it is firmly seated.

#### Storing the SRX2 Hard-Hat Headset

Honeywell recommends storing the hard hat with the headset earcup moved up on the side of the hat (see figure below) to reduce the risk of damage.

- 1. Remove the electronics module from the SRX2 headset. The electronics module can be used by another worker or stored separately.
- 2. Detach the microphone cap from the electronics module, and dock it in the mic cap pocket located above the headset earcup.



#### Figure 85: Docking the mic cap (SRX2 Hard Hat or High Noise Headsets)

- 3. Pull the earcup and fork assembly out away from the hard hat until the fork snaps into the outer lock position.
- 4. Rotate the headset in the hard-hat clip until the earcup rests against the side of the hat.





#### Replacing an Earpad on the SRX2 Hard-Hat or High-Noise Headset

- 1. Remove the SRX2 electronics module from the earcup.
- 2. Pry the earcup apart by grasping the inside and outside sections of the earcup and pulling the two sections apart.



Figure 87: Separating earcup parts

- 3. Remove the worn foam earpad from the inside plate.
- **4.** Gently pull a new foam earpad around the plate.



Figure 88: Putting on the new earpad

- 5. Align the inside posts of the two sections of the earcup.
- 6. Push sections together until they click into place.

#### Vocollect SRX2 High-Noise Headset

The Vocollect<sup>®</sup> SRX2 High-Noise headset is an SRX2 headset with a single ear cup that fits entirely over the operator's ear to allow him or her to hear voice instructions clearly in areas of high environmental noise. Combined with the optimal speech recognition of the SRX2 headset using SoundSense, this model offers an effective wireless solution for an industrial environment.

The single cup design gives operators the option of wearing the headset speaker on either ear for their long-term comfort. It also provides protection in very cold environments, such as a warehouse freezer.



Figure 89: Vocollect<sup>®</sup> SRX2 High Noise Headset

#### Note:

- The high-noise headset has microphone cap storage located on the headband and above the headset earcup.
- A stability strap is available for this model.

#### SRX2 High Noise Headset Specifications

Weight	3.74 ounces (106g)
Operating temperature	-22°F to 122°F (-30°C to 50°C )
Storage temperature	-40°F to 158°F (-40°C to 70°C)

Drop Tested	<ul> <li>12 drops from 7 feet (2.1 m) at minimum and maximum operating temperatures</li> <li>24 drops from 6 feet (1.8 m) at varying angles and a minimum and maximum operating temperatures</li> </ul>	
Enclosure rating	Meets IP54	
Humidity	5-95% condensing	
Noise Reduction Rating	≥ 10.5 dB	

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

#### Replacing an Earpad on the SRX2 Hard-Hat or High-Noise Headset

- 1. Remove the SRX2 electronics module from the earcup.
- 2. Pry the earcup apart by grasping the inside and outside sections of the earcup and pulling the two sections apart.



Figure 90: Separating earcup parts

- 3. Remove the worn foam earpad from the inside plate.
- 4. Gently pull a new foam earpad around the plate.



Figure 91: Putting on the new earpad

- 5. Align the inside posts of the two sections of the earcup.
- 6. Push sections together until they click into place.

## **About Pairing Wireless Headsets**

Pairing is the process in which two devices enabled with Bluetooth wireless technology create a secure link in order to share information. The pairing process begins when the master device initiates an inquiry to search for discoverable Bluetooth addresses.

Vocollect wireless headset pairings with Talkman or other devices are initiated by the device and remain paired until broken by user action. Note that the pairing exists between the headset and device hardware. If the operator moves to a different device, the original headset/device pairing will **not** follow that operator.

**Note:** The automatic operator load feature is an exception to the hardware-only pairing. On supported platforms, when an operator connects to a Vocollect wireless headset, that connection and operator information are registered in VoiceConsole. The next time the operator connects to that headset, his or her information will be loaded automatically. See the automatic operator load documentation for your Vocollect Voice Software release.

#### **Pairing versus Connecting**

Pairing is not the same as *connecting*. Two Bluetooth devices, once paired, can connect and disconnect many times. With a pairing in memory, the two devices can reconnect easily and will make repeated attempts to establish a connection. In this way, a headset and device pairing allows for increased user mobility.

For example, if the user takes the headset out of range of the paired device or powers it off, the device will notice the connection loss and try to reconnect. The two remain paired throughout this process.

#### **Pairing-related Configuration Parameters**

#### **PersistSrxPairingAcrossPowerCycle**

Set to 0 for the device to delete the pairing when it is powered off.

When the device is powered on again, it will not reestablish this connection with the associated headset.

This parameter defaults to 1, which causes pairings to be persisted and re-established when the device is powered on.

When SrxAutoPairEnable is enabled (set to 1), PersistSrxPairingAcrossPowerCycle defaults to 0.

#### **SrxClearPairingInCharger**

Set to 1 to clear the pairing when the device is placed into a charger.

This parameter defaults to 0, or maintaining the pairing.

When SrxAutoPairEnable is enabled (set to 1), SrxClearPairingInCharger defaults to 1.

#### **SrxAutoPairEnable**

Set to 1 to turn on automatic pairing.

#### **Cross Pairing**

Cross pairing is the result of a master device pairing with a headset or other device that is not the intended slave. If a user cannot isolate his or her device and headset from others and a cross pairing occurs, the user should break the existing pairing and retry the intended pairing.



**Tip:** Prevent unwanted cross pairing by isolating the device and headset from all other Bluetooth devices any time that the device is performing an inquiry scan to find the headset or pair manually. Cross pairing is extremely unlikely when a user uses touch pairing.

#### SRX/SRX2 Headset Pairing Methods

After an SRX or SRX2 headset enters low or high power pairing mode, it is available to accept a pairing initiated by a Talkman A700-series, Talkman A500, Talkman T5-Series, or other Bluetooth-enabled device. These pairings can be accomplished using a variety of methods:

The SRX or SXR2 headset must be in high power pairing mode to pair with a handheld device. To place the SRX headset in high power pairing mode, press and hold the Plus (+) and Minus (-) buttons for seven seconds. By setting the SrxHighPowerPairingDelaySeconds configuration parameter, you can configure how long an operator must hold the Plus and Minus buttons before entering high-power pairing mode or set the parameter to have the headset go directly into high-power pairing mode. After an SRX or SRX2 headset enters high power pairing mode, it is available to accept a pairing initiated by a Bluetooth-enabled handheld device. These pairings can be accomplished using a variety of methods:

TouchConnect	An SRX2 headset and an A700 device can be paired by turning on the		
	device and headset and touching them together. No button presses are required.		
	■ Note: See <i>Pairing an SRX2 Headset with an A700 Device Using TouchConnect</i> <sup>™</sup> for a full list of preconditions for using this method.		
	Recommended for:		
	VoiceCatalyst users on A700 devices and SRX2 headsets		
	Why?		
	This method insures that the SRX2 headset is only paired with the device it is touching. There are no additional buttons to press.		
Auto pairing:	On startup or on removal from a charger, the device immediately searches for wireless headsets and initiates a pairing. It eliminates the need to clear pairings manually as it will, by default, clear a pairing when powered off or when placed into the charger.		
	<b>Note:</b> The first time an SRX headset accepts an auto pairing, the paired device configures the headset to enter into pairing mode immediately on all future startups.		
	<b>Note:</b> The SRX2 headset always powers up in pairing mode.		
	Recommended for:		
	VoiceClient users sharing headsets Anyone using SRX headsets		
	Why?		
	When sharing headsets, autopairing makes it easy to locate any device and headset, power the two on in close proximity to one another (less than 3 feet), and have the two pair automatically. It eliminates the need to clear pairings manually or through VoiceConsole as it will clear a pairing when powered off or when placed into the charger by default. When you start up the device, it will be unpaired and will begin searching for a headset. This is the preferred method to use with SRX headsets as upon the first connection, it will set a parameter on the SRX so that when booted, it automatically goes into pairing mode.		
Manual pairing:	The user determines when to pair a device and headset by pressing buttons on the device.		
	<b>Important:</b> The first pairing for an SRX headset that has never been paired with a device must be a manual pairing. After this first time, the headset can pair automatically.		
	<b>Note:</b> The SRX2 headset can perform either manual or auto pairing for its first pairing.		
	Recommended for:		
	VoiceCatalyst users on T5 or A500 devices VoiceClient users not sharing headsets Anyone using SRX2 headsets		
	Why?		
	VoiceClient users that are not sharing their headsets with other users are		

VoiceClient users that are not sharing their headsets with other users are encouraged to use manual pairing. Manual pairing is the safest way to

	avoid cross pairing, as the user is performing the pairing procedure away from other users. Also, once a manual pairing is made (assuming no other configuration parameters have been changed), the pairing will persist and that device and headset will stay paired until the pairing is explicitly cleared.
VoiceConsole pairing:	The user pairs a specific device to a headset via the VoiceConsole interface.
Screen-Based pairing:	See Screen-Based Pairing information in this chapter for details on pairing handheld devices to a headset.

### Pairing an SRX Headset

Once paired, an SRX headset and a device remember their association, even when powered off and on again or after the device recharges. The SRX headset will only connect with that paired device.

Pairing the SRX headset with a new device erases the previous pairing from the headset's memory.

Note: If you are using an SRX2 headset, see Pairing an SRX2 Headset for details.

## Pairing an SRX2 Headset

The SRX2 Wireless Headset makes pairing and connecting even easier:

- It automatically enters low power pairing mode when it is turned on.
- It can break and re-enter pairing modes from a powered-on state.
- No headset reboot is necessary.
- It accepts connections from any device that was previously paired to it.

#### Pairing an SRX2 Headset with an A700 Device Using TouchConnect<sup>™</sup>

The A700 device can use TouchConnect to connect to an SRX2 Wireless Headset when:

- the A700 device is running VoiceCatalyst •
- Bluetooth is enabled
- the device is sleeping (not running a task)
- a wired headset is not attached or a wireless headset is not actively connected to the device •
- the parameter SRXHeadsetEnable is set to 1 (Enabled), the default
- the parameter SrxAutoPairEnable is set to 0 (Disabled), the default

For best performance when using an SRX2 headset with a Talkman A700 device, use the latest SRX2 software version. Obtain the latest headset software from your Honeywell portal or reseller and use the Honeywell Accessory Update Utility to upgrade your SRX2 headset.

Note: Data sent through near field communication (NFC) is not encrypted nor does it follow any specific safety protocol. This is because the transfer occurs over such a short range that it is extremely unlikely that the data could be intercepted.

- 1. Turn on the SRX2 headset.
- 2. If the headset's LED is blinking blue, it is currently paired to a device. Clear the pairing by pressing the + and buttons simultaneously on the SRX2 headset.

#### Option

## Description

If you are sharing headsets at your site:

#### You must first obtain the operator ID by reading the headband:

1. Touch area of the SRX2 t-bar (headband) with the

Symbol to center of the raised oval on the side of the device with the Symbol, until the device state (ring) indicator blinks green. This associates

#### Option

#### Description

the operator's headband to the device enabling VoiceConsole to recognize the operator.

- 2. Touch the side of the A700 device that has the symbol and the oval area of the SRX2's keypad section together, aligning the ovals on each and holding them together steadily, until the device state (ring) indicator blinks green. Note that there is a 30-second timeout after a headband is recognized in step one. You must pair the electronics module within 30 seconds from associating the headband for full functionality.
- **Note:** If the device state indicator blinks red, the NFC read was not successful, and you should attempt to perform the read again .

#### Option

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If you are not sharing headsets at your site:

#### Description

You only need to pair the device to the SRX2 electronics module:

- 1. Touch the side of the A700 device that has the symbol and the oval area of the SRX2's keypad section together, aligning the ovals on each and holding them together steadily, until the device state (ring) indicator blinks green.
- **Note:** If the device state indicator blinks red, the NFC read was not successful, and you should attempt to perform the read again.



Figure 92: Using TouchConnect to Obtain Operator Information from the Headband



Figure 93: Using TouchConnect to Pair an SRX2 with an A700 Device

When the device starts the task, VoiceConsole recognizes the pairing.

#### Auto Pairing an SRX2 Headset with a T5, A500, or A700 Talkman Device

Prerequisites:

- The headset is powered off.
- There is no wired headset connected to the Talkman device.
- The Talkman device is Bluetooth ready with Bluetooth connection features enabled.

- **Important:** An unpaired device will constantly search for wireless headsets while in auto pairing mode. Do not leave an auto pair-enabled device unpaired and powered on because the search will drain the battery.
- 1. Reboot the Talkman device or remove it from a charger to initiate a scan for headsets.
- **2.** Turn on the headset.

The headset will remain in pairing mode for ten minutes. If not paired within ten minutes, it powers off.

3. Hold the headset and Talkman device so they are within six inches of each other but not touching.

The blue LED indicator on the Talkman device turns on, may flash a few times, and then remains lit. After 20 to 30 seconds, the headset beeps three ascending tones and its LED indicator flashes blue. These indicators confirm that a pairing has completed.

- 4. Put on the headset. You will hear the headset repeat the serial number of the Talkman device to which it is paired.
- 5. Verify that the number matches the serial number on the Talkman device.

If you need to attempt the pairing again, re-enter pairing mode by pressing and releasing the Plus (+) and Minus (-) buttons on the headset control panel.

- 6. Press the Play/Pause button on the Talkman device to confirm the number.
- 7. Press the Play/Pause button again to begin working.

#### Manually Pairing an SRX2 Headset with a T5, A500, or A700 Talkman Device

Prerequisites:

- The headset is powered off.
- The Talkman device is not in a charger, and there is no wired headset connected to it.
- The Talkman device is in sleep mode not in use running a task or voice application. Its green LED indicator is flashing. If the LED is solid green, press the Play/Pause button.
- The Talkman device is Bluetooth ready with Bluetooth connection features enabled.
- 1. Turn on the headset.

The LED indicator is solid green. The headset remains in pairing mode for ten minutes then powers off.

- 2. Press and hold the Plus (+) and Minus (-) buttons on the Talkman device for two seconds to manually initiate a search for wireless headsets.
- 3. Immediately hold the headset and device so they are within six inches of each other but not touching.

The blue LED indicator on the Talkman device turns on, may flash a few times, and then remains lit. After 20 to 30 seconds, the headset beeps three ascending tones and its LED indicator flashes blue. These indicators confirm that a pairing has completed.

- 4. Put on the headset. You will hear the headset repeat the serial number of the Talkman device to which it is paired.
- 5. Verify that the number matches the serial number on the Talkman device.

If you need to attempt the pairing again, re-enter pairing mode by press the Plus (+) and Minus (-) buttons on the Talkman device again.

- 6. Press the Play/Pause button on the Talkman device to confirm the number.
- 7. Press the Play/Pause button again to begin working.

#### More about SRX/SRX2 Pairing Modes

When a headset is in pairing mode it is ready to respond to any inquiries about its Bluetooth services. The inquiring device uses this response to determine if it wants to pair with the headset. Because the device is the initiator and the headset is the acceptor, a user facilitates the pairing process by putting the headset into pairing mode before initiating the connection from the device.

SRX and SRX2 headsets support two pairing modes.

• Low Power Pairing Mode

Low power pairing mode is the default pairing mode for SRX and SRX2 headsets. In this mode, a headset will answer a Bluetooth device inquiry with a very low power response that transmits within a small area (a few feet or so, depending on the receiving capabilities of the inquiring device).

Limiting the wireless transmission helps to avoid an unwanted cross pairing (a pairing with a Bluetooth address other than the target) by forcing the headset to be in close proximity to the device.

#### • High Power Pairing Mode

High power pairing mode allows the headset and device to be separated by more distance because the headset's response to inquiries is a wider transmission.

Honeywell recommends using high power pairing only if low power pairing fails. Use this mode with care: While high power pairing mode makes it more likely that the connection will succeed, it also increases the likelihood of cross pairing.

If the configuration parameter **SrxAutoPairEnable** is enabled and the configuration parameter **SrxHighPowerPairingDelaySeconds** is set to 0, headsets will skip lower power pairing mode and enter high power mode.

TouchConnect

You can pair an A700 device and an SRX2 headset by touching them. This method essentially eliminates the chance of cross pairing and it is quicker and easier than the other methods. See *Pairing an SRX2 Headset with an A700 Device Using TouchConnect* for more information.

See Configuration Parameters for SRX/SRX2 Headsets for more details.

Initial Headset State	SRX Controls	SRX2 Controls	Pairing Mode Result
Off	Press and hold Plus (+) and Minus (-) buttons for 0 to 3 seconds	N/A	Idle mode Mode only allows connection with the last device paired
Off	Press and hold Plus (+) and Minus (-) buttons for 4 to 6 seconds	Press and release Power button	Low power pairing mode
Off	Press and hold Plus (+) and Minus (-) buttons for 7 or more seconds	N/A	High power pairing mode
On and paired	N/A	Press and release Plus (+) and Minus (-) buttons	Current pairing broken and headset enters low power pairing mode
On in low power pairing mode	N/A	Press and release Plus (+) and Minus (-) buttons	High power pairing mode

#### Placing Headsets in Pairing Modes

#### **Breaking a Pairing**

There are several methods to break a pairing between an SRX or SRX2 headset and a Bluetooth device.

From the Device:

A device can break a pairing with a wireless headset by initiating a new search for headsets. The user can initiate the device query by holding down the Plus (+) and Minus (-) buttons on the device. This method is useful if the user's device completes a cross pairing with the wrong headset; the user can initiate another manual pairing.

	Manual pairing must be enabled on the device for this procedure to work.
From VoiceConsole:	VoiceConsole displays all Bluetooth pairings including SRX and SRX2 headsets, Talkman devices, scanners, and printers. From the <b>Edit Device</b> page, you can clear a pairing. You can do this with headsets as well.
From an SRX Headset:	The headset cannot break the pairing with the device. The user must break it from the device by initiating another pairing.
From an SRX2 Headset:	The SRX2 headset user can break any pairing by pressing the Plus (+) and Minus (-) buttons.
	This is the preferred method for breaking a pairing.
	If the paired device is running Vocollect VoiceCatalyst 1.2 and newer, the SRX2 headset signals the device that the pairing is being broken. With older versions of Vocollect Voice Software, the pairing breaks only after it times out.

## **Care and Use of Headsets and Microphones**

The headsets and microphones used with the *Voice* system are delicate pieces of electronic equipment. Proper care and use of these products will ensure that they work well for a long time.

[] **Important:** For maximum hygiene, Honeywell discourages sharing headsets among operators.

The design of the *SRX2 Wireless Headset* features an electronics module that can be removed from the headband and windscreen. The electronics module can be shared among operators over multiple shifts, providing some level of hygiene while potentially reducing costs.

#### **Using Headsets in Freezer Environments**

Honeywell recommends the following best practices for optimal speech recognition performance when using headsets in freezer environments.

- Train your voice templates in the freezer environment. If operators train templates in a quiet area, the noise of a freezer could disrupt recognition.
- Position the microphone as close to your mouth as possible, but outside of your breath stream. It should be facing your upper lip, and not touching anything (for example, clothing, skin, or facial hair).
- Keep windscreens dry. Water will not damage the equipment; however a windscreen can create a water barrier that degrades speech recognition.
- Do not attempt to break ice from a windscreen. The pressure can grind ice into the foam and cause a water barrier as it melts. Ice build-up generally does not degrade performance because Vocollect's Adaptive Speech Recognition compensates for gradual changes in the environment.
- Replace a windscreen if liquid or ice on the foam is accompanied by significant problems with recognition.

#### **Cleaning Windscreens**

Honeywell recommends that you change windscreens every 90 days for optimum speech recognition performance. By protecting headset microphones, windscreens prevent the accumulation of dirt which can reduce the clarity of operator responses.

- **Important:** Soap, cleaning solutions, and vigorous washing will remove the protective coating on the windscreen and decrease its effectiveness.
- 1. Remove the windscreen from the microphone.

- 2. Rinse the windscreen under warm water.
- 3. Squeeze out the excess water and let it air dry thoroughly.



Figure 94: Dirty microphone results in degraded performance

The comparison shows how an unprotected microphone cannot make clear distinctions between speech and silence, while a clean microphone can.

#### **Cleaning Headsets**

The foam pads used with Vocollect headsets were designed for both comfort and hygiene. The materials naturally inhibit the growth of bacteria and can be cleaned by rinsing with water and drying.

- **Note:** Commercial cleaning solvents are not recommended.
- Clean the plastic parts of the headsets with a soft cloth dampened with water. To clean and disinfect the headset plastic, use a pre-moistened alcohol wipe.
- If the Talkman Connectors or plugs become contaminated, use a pre-moistened alcohol wipe to remove dirt or residue.
- If the metal connection points on the Talkman's Connectors become discolored, use a soft pencil eraser to clean them.
- Do not use unapproved liquids to clean the yellow, blue, and red Talkman Connectors (TCOs) and any associated headset, scanner, or device plugs.
- Hand or machine wash dual-cupped headset earpad covers in cold or warm water, then air dry the covers. The covers are made of 100% cotton flannel and may shrink if dried in a clothes dryer.

#### **Cleaning the Headband Pad**

- **Note:** Honeywell strongly recommends that you leave the headband pad in place when cleaning it. If you must remove the entire pad to clean it, use care to line up the headband pad with the topmost part of the headband when you place it back on the headband.
- Leave the headband in place and simply wipe the headband with a soft cloth. If necessary, use a pre-moistened alcohol wipe to clean and disinfect the unit.

# Chapter 11

## Chargers

## Topics:

- A700 6-Bay Device Charger
- A700 Battery Charger
- T5/A500 Combination Charger
- T2 Series Battery Chargers
- T1 10-Bay Combination Charger
- T1 Single Charger Cable
- SRX Headset Battery Charger
- SRX2 Headset Battery Charger

Honeywell offers charger units that can charge one or more batteries individually or while inserted in Talkman devices.

Talkman devices should be placed into a charger when not in use. The charger charges the device's battery while linking to the host computer to download new voice applications, reconfigure device settings, and update device software.

#### CAUTION:

- Keep water and moisture away from the charger at all times. If a battery has any condensation from use in a cold environment such as a freezer, dry the battery before placing it into the charger.
- Only Honeywell-approved batteries should be placed in the battery charger. Do not attempt to charge any other type of battery in the charger.

#### Note:

- Do not place a device into a charger without a battery attached to it.
- A device is always on when it is in a charger. When a device that is powered off is placed into a charger, it automatically turns on.
- The A700 series, A500/T5, and T1 chargers can charge batteries both inserted in and separate from devices.
- Honeywell recommends that a protective device, such as an uninterruptible power supply with surge protection and lightning arrestor capability, be used with battery chargers.

## A700 6-Bay Device Charger



#### Figure 95: A700 6-Bay Device Charger

Note: Do not place a device into a charger without a battery attached to it.

A device that has been on and in use for more than eight hours will automatically power off and then back on after it has been in the charger for five minutes. Also, a device that has been in a charger for more than eight hours will automatically power off and then back on.

## A700 6-Bay Device Charger Specifications

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Length	21.8" ( 55.5 cm)
Depth	7.48" (19 cm)
Height	6.14" (15.6 cm)
Power	Input Voltage: 100-240 Vac
	Input Current: 2.0 A maximum
	Line Frequency: 50-60 Hz
Cord	Uses standard IEC 60320 plug
Operating Temperature	32° to 104° F (0° to 40° C)*
Storage Temperature	-40° to 158° F (-40° to 70° C)
Charging Temperature	41° to 95° F (5° to 35° C)*
Humidity	Functional to 5% to 95% non-condensing

\*The battery charger's components will operate in ambient temperatures between  $32^{\circ}$  and  $104^{\circ}$  F ( $0^{\circ}$  and  $40^{\circ}$  C) with no adverse effects. Functional battery charging is restricted to ambient temperatures between  $41^{\circ}$  and  $95^{\circ}$  F ( $5^{\circ}$  and  $35^{\circ}$  C), to limit the internal temperature of the batteries and improve charging performance.

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

## A700 Device Charger and Battery Charger Wall Mount

The A700 charger and the A700 battery charger are ready for mounting on a standard DIN rail without any customer modifications. A DIN rail must be installed on a wall in a suitable location. Honeywell offers a DIN rail suitable for

mounting a single charger, but customers may choose to purchase rails from other suppliers as long as the rails meet Honeywell specifications. Consider the following before wall mounting your charger.

- Customer assembly required for the rail wall mount.
- Customer assumes all responsibility for the installation of charger units.
- Installer must verify that the installation meets all local building codes.
- Avoid potential hazards (electrical wires, waterlines, and similar building components) when drilling into the wall.
- Avoid blocking power outlets and other wall receptacles when installing the rail and charger.
- Anchoring a wall mount rail to a wall stud generally results in a more stable installation. If you drill into a wall stud, do not use a screw anchor in that hole.
- If you are mounting two chargers side by side, you must leave at least 1 in. (2.54 cm.) of space between the two units to allow clearance for the locking arms.
- Rails must be anchored to the wall at least 12 in. (30.5 cm.) from the floor to allow for proper attachment, seating, and removal of the charger unit.
- If you are mounting a charger directly above another charger, Honeywell recommends clearance of at least 10 in. (25.4 cm.) between DIN rails.



Figure 96: A700 charger - back view

Part Number in Diagram	Description
1	power supply
2	rubber stop for leveling charger against wall
3	locking arm for securing charger to DIN rail
4	mounting hook for hanging charger on DIN rail
5	USB port for charger software upgrades (only on battery charger)

#### Mounting the A700 Device or Battery Charger

You will need:

 DIN rail, slotted steel 35 mm X 15 mm, Honeywell Part #CM-1000-20-101 or customer-supplied DIN rail meeting the following specifications

Number of chargers on rail	Minimum cut lengths for rail	DIN rail specs	Standard DIN rail
1	550 mm	Single unit length 550 mm; weight 331.5 g (11.6933 oz)	11/211
2	1101 mm	→ <u>35</u> 1.38* 0.4 – 2	1121
3	1652 mm	2 3 3 3 3 3 3 3 3 3 3 3 3 3	

- Drill
- Fasteners
- Screw driver
- 1. Install the DIN rail on the wall in the desired location. Ensure that the secure installation, supporting surface, and mounting hardware will safely support the weight of a fully loaded charger, at 25 lbs. per linear foot (37.2 kg/m) of DIN rail. Ensure that the anchor holes are at least 12 inches (30.5 cm.) from the floor. Verify that the installation meets all local building codes.
- 2. (!) Important: The power supply for the charger should already be zip-tied in the back of the charger chassis. If it is not, plug the power supply into the charger and secure it. Do not plug it into a power source until after mounting is complete.

Before attaching the charger to the rail, open the locking arms on the back of the unit by rotating the two levers out on each side of the charger. The arms are parallel to the floor in the unlocked position.

- 3. Attach the charger to the DIN rail by hanging the two hooks on the back of the unit on the top lip of the rail.
- 4. Slide the charger horizontally to the desired position on the rail, and rotate the locking arms into the locked position flush with both sides of the unit.
- 5. If the charger does not feel secure on the rail, adjust the rubber stops on the back of the unit by screwing them out toward the wall.
- 6. Plug the power supply into a power source and check the LED indicator at the bottom right of the charger face. If the indicator light is a solid green, the charger is powered on.



## A700 Battery Charger

Figure 97: A700 12-Bay Battery Charger

## A700 12-Bay Battery Charger Specifications

Length	22.1" (56.1cm)
Depth	5.83" (14.8cm)

Height	6.14" (15.6cm)
Power	Input Voltage: 100-240 Vac
	Input Current: 2.0 A maximum
	Line Frequency: 50-60 Hz
Cord	Uses standard IEC 60320 plug
Operating Temperature	32° to 104° F (0° to 40° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Charging Temperature	41° to 95° F (5° to 35° C)*
Humidity	Functional to 5% to 90% non-condensing

\* The battery charger's components will operate in ambient temperatures between  $32^{\circ}$  and  $104^{\circ}$  F ( $0^{\circ}$  and  $40^{\circ}$  C) with no adverse effects. Functional battery charging is restricted to ambient temperatures between  $41^{\circ}$  and  $95^{\circ}$  F ( $5^{\circ}$  and  $35^{\circ}$  C), to limit the internal temperature of the batteries and improve charging performance.

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

## SRX2 and A700 Battery Charger LED Indicators

The SRX2 battery charger and the A700 battery charger have an LED indicator light, located at the bottom right of the charger face, that signals the status of the charger.

- Solid green LED: Charger power is on
- No light: Charger power is off
- Solid red LED: Charger is experiencing a power fault (SRX2 only)

**Note:** If the charger LED indicator is red, unplug the charger power supply from the power source, and remove all batteries. Plug the power supply into the power source again. If the LED remains red, the charger may require repair or replacement.

#### **Charger Port Indicators**

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Additionally, each battery port has two LED indicator lights that apply to the status of the resident battery.

- The ring LED is a circular light that indicates the battery's charge status.
- The alert LED, in the shape of an exclamation point (!), indicates that there is a battery condition requiring attention. When this indicator is on, the battery on that charger port may not last a full shift. Check VoiceConsole for a specific alert message.



#### Figure 98: Battery Port Indicators

The following chart describes the patterns for the battery port LED indicator lights.

Ring LED (Charge Status)	Alert LED (Battery Health)	SRX2 Battery Status
Solid Green	Off	Battery is fully charged

Ring LED (Charge Status)	Alert LED (Battery Health)	SRX2 Battery Status
Solid Yellow	Off	Battery is charging
Blinking Red	Off	Charging fault detected
Solid Green	Solid Red	Battery alert condition; fully charged
Solid Yellow	Solid Red	Battery alert condition; charging
Blinking Red	Solid Red	Battery alert condition; fault detected

## T5/A500 Combination Charger



Figure 99: T5/A500 10-Bay Combination Charger

- The T5/A500 10-Bay Combination Charger can store five devices at a time and any combination of T5, T5*m* and A500 device models.
- The charger can store and charge ten batteries five batteries in the upper battery slots and five batteries connected to devices in the lower device slots.
- The charger can also share one device's configuration with other devices being charged at the same time.
- The T5/A500 charger may be fixed to a wall using the available wall mount kit.
- **Note:** Do not place a device into a charger without a battery attached to it.

If a device that has been on and in use for more than eight hours will automatically power off and then back on after it has been in the charger for five minutes. Also, a device that has been in a charger for more than eight hours will automatically power off and then back on.

#### T5/A500 Single-Bay Combination Charger

• A T5/A500 Single-Bay Combination Charger is also available. It includes one battery slot and one device slot. The charger can store one device at a time and store and charge up to two batteries at a time - one battery in the upper slot and one battery in the lower slot.

## T5/A500 10-Bay Combination Charger Specifications

Length	21.21" (53.9 cm)
Depth	6.64" (16.9 cm)
Depth with Wall Bracket	6.89" (17.5 cm)
Height	6.12" (15.5 cm)

Power	Input Voltage: 100-250 Vac
	Input Current: 2.4 A maximum
	Line Frequency: 50-60 Hz
Cord	Uses standard IEC 60320 plug
Operating Temperature	50° to 140° F (10° to 40° C)
Storage Temperature	-22° to 158° F (-30° to 70° C)
Humidity	Functional to 90% non-condensing

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

## T5/A500 Combination Charger Power Supply Specifications

10-Bay Combination Charger Power Supply	
Input:	Input Voltage: 100-250 Vac
	Input Current: 2.4 A maximum
	Line Frequency: 50-60 Hz
Output:	Output: 97.5 W (15 V x 6.5 A)
Cord (U.S., Mexico, Canada):	UL listed and CSA certified
	3 conductor 18 AWG
	Terminated with a molded-on plug cap rated at 125V 15A
	Six feet minimum length
Cord (other countries):	Internationally harmonized and marked <har></har>
	3 conductor 0.75mm minimum wire
	Rated at 300V with PVC insulated jacket
	Molded-on plug cap rated 250V 10A
	Six feet minimum length

Single-Bay Combination Charger Power Supply		
Input:	Input Voltage: 100-240 Vac	
	Input Current: 0.6 A maximum	
	Line Frequency: 50-60 Hz	

## Connecting the Power Supply to the T5/A500 Combination Charger

- 1. Connect the AC cord to the left end of the power supply that is mounted inside the charger.
- 2. Route the cable through the plastic clips as shown.



Figure 100: Cable Routed Through Plastic Clips

3. Push the clips to lock the cord in place.

## T5/A500 Combination Charger Wall Mount

This unit provides a convenient surface for mounting the T5/A500 10-Bay Combination Charger and its power supply on a wall.

- Customer assembly required.
- Be aware of potential hazards (electrical wires, waterlines, etc.) when drilling the pilot holes.
- Customer assumes all responsibility for the installation of these units.
- A device charger cannot have another charger placed directly above it. A section of dry-erase board (included) must be placed above each device charger.
- If you drill into a wall stud when drilling a pilot hole for one of the anchors, do not use an anchor with that hole.
- The lowest anchor for each extrusion must be a minimum of 12 inches from the floor.
- Avoid blocking power outlets and other wall receptacles when installing the extrusions and charger unit.

#### Installing the T5/A500 Charger Wall Mount

Parts	You will need
<ul> <li>1 mounting bracket</li> <li>4 self-drilling screw anchors #10</li> <li>4 washers, #10 flat, type B regular</li> <li>4 screws, #10 Phillips pan head</li> </ul>	<ul> <li>Drill with 1/8" bit</li> <li>Screw driver, #2 Phillips</li> <li>Drilling template sheet (included)</li> </ul>

1. Using the drilling template, mark four holes for the anchors. Note that there are two sets of pilot markers; one set for wall studs with 12 inch centers and one set for wall studs with 16 inch centers.

The bottom anchor holes must be at least 12 inches from the floor.

- 2. Drill the pilot holes for the anchors, and screw the anchors into the holes.
- **3.** Position the mounting bracket so that its flat side is against the wall, aligned with the anchors, and the mounting pins are away from the wall.
- **4.** Insert a screw through a washer and a hole in the bracket, then into the anchor. Tighten screw. Repeat for remaining screws.
- 5. Tilt the charger back and slide it onto the wall by lining up the tabs on the top of the bracket with the notches in the back of the charger.
- 6. Level the charger so the supports on the bottom of the bracket are underneath the charger.



Figure 101: Supports Underneath Charger

## **T2 Series Battery Chargers**

T2 series device batteries can be charged in the device charger. A separate battery charger is also available to charge spare batteries.



#### Figure 102: T2 Series Battery Charger

- The T2 series battery charger includes five battery slots. The charger can be used to store and charge up to five batteries at a time.
- Wall mounts are available that can accommodate a single charger, multiple chargers, and battery chargers.

## **T2 Series Battery Charger Specifications**

Length	Approximately 24" (61 cm)	
Length with Desk Mount Feet	Approximately 24" (61 cm)	
Width	Approximately 2.5" (6.5 cm)	
Width with Desk Mount Feet	Approximately 5" (12.7 cm)	
Height	Approximately 5.25" (13.3 cm)	
Height with Desk Mount Feet	Approximately 5.375" (13.65 cm)	
Power	90-264 Vac 50/60 Hz 72 W	

	Uses standard IEC 630 cord
Operating Temperature	50° to 140° F (10° to 40° C)
Storage Temperature	-22° to 158° F (-30° to 70° C)
Humidity	Functional to 90% non-condensing

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

## Assembling the Stands for the T2 Charger

You will need a #2 Phillips screwdriver

Parts list:

- Charger stand(s)
- 2 rubber feet per stand
- 4 Phillips screws per stand
- 1. Secure the rubber feet to the stand with the screws.
- 2. Position each stand so that its top lip is inserted into the center channel in the back of the charger.



Figure 103: Attaching the feet



Figure 104: Positioning the stand on the charger

**3.** Secure each stand to the charger by inserting screws through the holes in the stand and screwing them into the slot on the bottom of the charger.



Figure 105: Screwing the stand into the charger

## **Charger Wall Mount, Multiple Chargers: T2 Series**

This unit provides a convenient surface for mounting five charger units and their associated power supplies on a wall.

- Customer assembly required.
- Be aware of potential hazards (electrical wires, waterlines, etc.) when drilling the pilot holes.
- Customer assumes all responsibility for the installation of these units.
- A device charger cannot have another charger placed directly above it. A section of dry-erase board (included) must be placed above each device charger.
- If you drill into a wall stud when drilling a pilot hole for one of the anchors, do not use an anchor with that hole.
- The lowest anchor for each extrusion must be a minimum of 12 inches from the floor.
- Avoid blocking power outlets and other wall receptacles when installing the extrusions and charger unit.

#### Charger Wall Mount, Multiple Chargers: Mounting the Extrusions

Parts List:

Item #	Quantity	Description
1	2	Extrusion
2	8	Self-drilling screw anchor #8
3	8	Washer, #8, flat, type B regular
4	8	Screw, #8x1.5 Phillips pan head
5	2	Screw, #10-24x.312 hex, socket head
6	1	Drilling template sheet

You will need:

- Drill with 1/8" bit
- Screw driver, #2 Phillips
- Allen key, Hex 1/8"
- 1. Using the drilling template, mark eight holes on the wall for the anchors.

The bottom anchor holes must be at least 12 inches from the floor.

- 2. Drill the pilot holes for the anchors, and screw the anchors into the holes.
- **3.** Align the holes of an extrusions with the installed anchors. The extrusions have a specific inside and outside edge and must be placed onto the wall correctly. The inside edge of the extrusion has the T-channel into which the chargers are inserted. See figure below.
- 4. Insert a screw through a washer and the hole in the extrusion and into the anchor. Tighten the screw enough to hold the extrusion in place. Repeat with the other screws and washers.
- 5. Repeat the previous two steps for the other extrusion.
- 6. Make sure that the extrusions are vertical and then tighten the screws completely.
- 7. Locate the small hole in the bottom of the T-channel on the inside edge of each extrusion. Insert one of the socket head screws (item 5) into both of the bottom holes and tighten them all the way.



Figure 106: Mounting the Extrusions

#### Charger Wall Mount, Multiple Chargers: Mounting the Power Supply Bracket

Parts List:

Item #	Quantity	Description
6	4	Power supply bracket
7	1	Power supply mounting panel
8	2	Collar with nut
9	2	Washer, #4, flat, type B regular
10	2	Screw #4-40x.625, Phillips pan head
11	8	Washer, #8, flat, type B regular
12	8	Screw #8-32x.5, Phillips pan head
13	8	Nut, #8-32 hex machine screw

You will need:

- Screw driver, #2 Phillips
- Screw driver, Hex 1/8"
- Wrench, 11/32"
- 1. The two holes at the top of the mounting panel are for the collars that will enable the panel to slide down into the extrusions. Assemble a collar by placing the small end of the collar against the back of the mounting panel.
- 2. Insert the screw through a washer and the hole in the panel, then into the collar. Tighten the screw all the way. Repeat with the other collar.
- **3.** The eight holes in the middle of the mounting panel are for the power supply brackets. Mount a power supply bracket to the panel by lining up the holes. Refer to the figure below for the correct positioning of the bracket.



#### Figure 107: Mounting the Power Supply Bracket

- 4. Insert a screw through a washer and a hole in the bracket and the panel. Tighten with a nut.
- 5. Repeat for the other holes in the bracket.
- 6. Repeat the last three steps for the remaining brackets

#### Charger Wall Mount, Multiple Chargers: Fastening the Collars to a Charger

Parts List:

Item #	Quantity	Description
14	16	Collar (611065)
15	4	Spring, Metric, 6.00x0.60x9.50 long (681006)
16	4	Screw, M3x0.5x16 Phillips pan head (680128)
17	1	Collar placement tool

You will need:

- Screw driver, #2 Phillips
- 1. Locate the collar placement tool on the back of the charger so that it is against the charger's end cap.
- 2. Position one of the collars against the collar placement tool. Place the collar directly over one of the charger's threaded channels.



#### Figure 108: Fastening the Collars

- 3. Insert a spring into the collar, then secure with a screw. The screw should bottom out in the channel.
- **4.** Repeat these steps for the rest of the collars.

#### Charger Wall Mount, Multiple Chargers: Completing the Assembly

At this point, you are ready to put the power supply mounting panel, the chargers, and the dry-erase board sections into the extrusions. Insert the different pieces into the top of the extrusions and then slide them down the extrusions.

1. Place the bottom of the mounting panel (the end without the collars) into the slots in the outer edges of the extrusions.



#### Figure 109: Placing the Bottom of the Mounting Panel into the Slots

- 2. Slide the panel all the way down to the bottom of the extrusions. Make sure that the collars on the top of the panel go into the extrusions' T-channels as the panel is slid down. The panel will stop when the collars are resting on the screws in the bottom of the T-channels.
- **3.** Insert the first charger into the extrusions so that the battery release buttons are at the top. Place the two bottom collars on the back of the charger into the T-channels in the extrusions.



#### Figure 110: Placing the Bottom Collars into the T-Channels

- 4. Slide the charger down until it is resting on top of the power supply mounting panel. Make sure that the two top collars on the back of the charger go into the T-channels as the charger is slid down.
- 5. Insert a section of dry-erase board into the extrusions and slide it down to the top of the charger. A section of dryerase board must be placed above each device charger.
- 6. Repeat the last three steps for the remaining chargers and dry-erase board sections.
# **T1 10-Bay Combination Charger**



### Figure 111: T1 10-Bay Combination Charger

- The T1 10-Bay Combination Charger can store five devices at a time.
- The charger can store and charge ten batteries at a time five batteries in the lower battery slots and five batteries connected to devices in the upper device slots.
- A T1 device should not be placed into a device charger without a battery attached to it.
- The socket-outlet should be installed near the equipment and should be easily accessible.

# **T1 10-Bay Combination Charger Specifications**

Length	21.9" (55.6 cm)
Depth	3.7" (9.4 cm)
Height	5.9" (15 cm)
Power	Input Voltage: 12 V DC
	Input Current: 5 A maximum
Weight	70.5 ounces (2000 g)
Cord	Uses standard IEC 60320 plug
Operating Temperature	32° to 122° F (0° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Humidity	95% non-condensing

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

# T1 10-Bay Combination Charger Power Supply Specifications

Input	Input Voltage: 100-240 Vac	
	Input Current: 2.4 A	
	Line Frequency: 50-60 Hz	
Output	Output: 80 W (12 V DCx 6.67 A)	

# **T1 10-Bay Combination Charger Wall Mount**

This unit provides a convenient surface for mounting five charger units and their associated power supplies on a wall. Customer assembly required.

- Honeywell recommends that the charger have a minimum of 12 inches of clearance above it for placement and removal of the devices. Do not install another charger directly on top.
- The lowest anchor for each extrusion must be a minimum of 12 inches from the floor.

- Honeywell recommends using #8 pan head sheet metal screws of appropriate length into the center of the wall studs. The clearance between the bottom of the screw head and mounting surface should be approximately 3/16 of an inch.
- Install the battery charger so that the supporting surface and installation will safely support the weight of a fully loaded charger, greater than 8 pounds.
- If wall stud mounting is impractical, Honeywell recommends using wall anchors that are capable of supporting at least 10 lbs/anchor.
- The installer must verify the charger is removable from the wall without use of a tool.

### **CAUTION:**

- Injury to persons and damage to the wall may result if the charger or mounting hardware is pulled from the wall. To reduce the likelihood of such an injury, mount only on a surface that is structurally sound.
- Customer assumes all responsibility for the installation of these units.
- Be aware of potential hazards (electrical wires, waterlines, etc.) when drilling the pilot holes.
- Avoid blocking power outlets and other wall receptacles when installing the extrusions and charger unit.

### Installing the T1 10-Bay Combination Charger Wall Mount

The following parts come with the T1 10-Bay Combination Charger Wall Mount:

Item #	Quantity	Description	
1	1	Charger Stand	
2	2	Phillips screws	
3	2	Rubber feet	
4	2	Extrusion	
5	8	Self-drilling screw anchor #8	
6	8	Washer, #8, flat, type B regular	
7	8	Screw, #8x1.5 Phillips pan head	
8	2	Screw, #10-24x.312 hex, socket head	
9	1	Drilling template sheet	

You will need the following equipment:

- Drill with 1/8" bit
- Screw driver, #2 Phillips
- Allen key, Hex 1/8"
- 1. Secure the rubber feet to the stand using the Phillips screws.
- 2. Position the stand so that its top lip is inserted into the center channel in the back of the charger.
- **3.** Secure each stand to the charger by inserting Phillips screws through the holes in the stand and screwing them into the slot on the bottom of the charger.
- **4.** Using the drilling template, mark the eight holes for the anchors. The bottom anchor holes must be at least 12 inches from the floor.
- 5. Drill the pilot holes for the anchors, and install the battery charger with wall anchors or screws on 16" centers.
- 6. Place one of the extrusions against the wall and align its holes with the installed anchors. The extrusions have a specific inside and outside edge and must be placed onto the wall correctly. The inside edge of the extrusion has the T-channel into which the chargers are inserted.
- 7. Insert a screw through a washer and the hole in the extrusion, then into the anchor. Tighten the screw to hold the extrusion in place. Repeat this step with the other screws and washers.
- 8. Repeat the previous two steps for the other extrusion.

- 9. Make sure that the extrusions are vertical and then secure them by tightening the screws all the way.
- **10.** Locate the small hole in the bottom of the T-channel on the inside edge of each extrusion. Insert one of the socket head screws (item 5) into both of the bottom holes and tighten them all the way.



Figure 112: Mounting the Extrusions

### Connecting the Power Supply to the T1 10-Bay Charger

- 1. Connect the AC cord to the left end of the power supply that is mounted inside the charger.
- 2. Route the cable through the plastic clips as shown.



Figure 113: Cable Routed Through Plastic Clips

**3.** Push the clips to lock the cord in place.

# **T1 Single Charger Cable**



Figure 114: T1 Single Charger Cable

- The T1 Single Charger Cable allows you to use a commercially available 5V charger to charge a single T1 battery within a T1 device.
- Do not remove the battery from the device when connecting the device to the charger cable.

# **T1 Single Charger Cable Specifications**

Length	21.21" (53.9 cm)	
Depth	6.64" (16.9 cm)	
Depth with Wall Bracket	6.89" (17.5 cm)	
Height	6.12" (15.5 cm)	
Power	Input Voltage: 100-250 Vac	
	Input Current: 2.4 A maximum	
	Line Frequency: 50-60 Hz	
Cord	Uses standard IEC 60320 plug	
Operating Temperature	50° to 140° F (10° to 40° C)	
Storage Temperature	-22° to 158° F (-30° to 70° C)	
Humidity	Functional to 90% non-condensing	

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

# **T1 Single Charger Cable Power Supply Specifications**

Input	Input Voltage: 100-240 Vac
	Input Current: 0.5 A

	Line Frequency: 50-60 Hz
Output	Output: 10 W (5 V DCx 2.0 A maximum)

# **SRX Headset Battery Charger**



Figure 115: SRX Headset Battery Charger

- The *SRX* battery charger is available in a five-bay model with five battery slots and a single battery charger with one battery slot.
- To power on the charger, connect the power supply to the charger and a power source. The LED indicator in the left corner of the charger is green when the charger is receiving power.
- SRX headset battery chargers are designed to be placed on a desktop or mounted on a wall using a wall mount kit.

# **SRX Headset Battery Charger Specifications**

Width	Approximately 31 cm (12")	
Depth	Approximately 10 cm (4")	
Height	Approximately 10 cm (4")	
Input	Input voltage: 5VDC	
	Input current: 5A	
Output	25 W	
Cord: US, Mexico, Canada	UL listed and CSA certified	
	Three conductor 18 AWG	
	Terminated with a molded-on plug cap rated at 125V 10A minimum	
	Six feet minimum length	
Cord: Other Countries	H05VVF3G1.00 per CENELEC HD-21 marked <har></har>	
	Three conductor 1 mm <sup>2</sup>	
	Terminated with a molded-on plug cap rated at 125V 10A minimum	
	Six feet minimum length	
Operating Temperature	50° to 140° F (10° to 40° C)	
Storage Temperature	-22° to 158° F (-30° to 70° C)	

### **Specifications for the 5-Bay Charger**

Humidity	Functional to 90% non-condensing

Width	Approximately 8 cm (3")	
Depth	Approximately 11 cm (5")	
Height	Approximately 6 cm (2.5")	
Input	Input voltage: 100-240 VAC	
	Input current: 0.9 A maximum	
	Line frequency: 50-60 Hz	
Output	5 W	
Cord: US, Mexico, Canada	UL listed and CSA certified	
	Three conductor 18 AWG	
	Terminated with a molded-on plug cap rated at 125V 10A minimum	
	Six feet minimum length	
Cord: Other Countries	H05VVF3G1.00 per CENELEC HD-21 marked <har></har>	
	Three conductor 1 mm <sup>2</sup>	
	Terminated with a molded-on plug cap rated at 125V 10A minimum	
	Six feet minimum length	
Operating Temperature	50° to 113° F (10° to 45° C)	
Storage Temperature	-22° to 158° F (-30° to 70° C)	
Humidity	Functional to 90% non-condensing	

### Specifications for the Single-Bay Charger

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

# **SRX Battery Charger Wall Mount**

This unit provides a convenient surface for mounting the *SRX* battery charger and its associated power supply on a wall.

- Customer assembly required.
- Customer assumes all responsibility for the installation of these units.
- Avoid potential hazards (electrical wires, waterlines, and similar building components) when drilling into the wall.
- Avoid blocking power outlets and other wall receptacles when installing the charger.
- Anchoring a wall mount to a wall stud generally results in a more stable installation. If you drill into a wall stud, do not use a screw anchor in that hole.
- Anchors must be at least 12 in. (30.48 cm.) from the floor to allow for proper attachment, seating, and removal of the charger unit.

# SRX Battery Charger Wall Mount: Mounting the SRX Single-Bay Battery Charger

Honeywell recommends storing the single-bay charger on a desktop, but it can also be mounted on a wall.

- **Important:** In order to mount the single-bay charger on a wall, the stand on the bottom of the charger must be reversed.
- 1. Turn the charger over and loosen the screw on the bottom of the stand.
- 2. Flip the stand over and reinstall the screw.
- 3. Drill two pilot holes for wall anchors (not included). The anchors should be spaced 2.75" apart vertically.
- 4. Install the anchors and screws (not included).
- 5. Be sure to use both the keyhole slot and screw slot to hang the charger.

### SRX Battery Charger Wall Mount: Mounting the SRX 5-Bay Battery Charger

#### Parts List:

- 4 self-drilling screw anchors #8
- 4 screws, #8 x 1.5 Phillips pan head

You will need:

- Drill with 1/8" bit
- Screw driver, #2 Phillips
- 1. Mark the location of the anchor holes on the wall, spaced 9" apart horizontally and 2" apart vertically. Make sure that the bottom anchor holes are at least 12 inches from the floor and level.
- 2. Drill the pilot holes for the anchors, insert anchors and screws. Leave screw heads sticking out from the wall.
- **3.** Insert the power supply into the back of the charger as shown. Plug the power supply into the charger but do not plug it into a power source until after mounting is complete.



### Figure 116: Power Supply Plugged into Charger

4. Hang the charger on the screws by lining up the keyhole slots on the back of the charger with the screw heads on the wall.

# **SRX2 Headset Battery Charger**



- The SRX2 battery charger has two models, a 20-Bay charger to charge up to 20 batteries at one time, and a 6-Bay charger to charge up to 6 batteries at one time.
- The LED indicator light on the charger front panel indicates if the charger is powered on or not.
- Each battery port has LED lights that indicate battery charge status and battery health.
- SRX2 headset battery chargers are designed to be placed on a desktop or mounted on a wall using a DIN rail. Customer with multiple chargers must allow the required space between wall mounted units and must avoid stacking desktop units on top of each other.

# SRX2 Headset Battery Charger Specifications

	20-Bay Charger	6-Bay Charger
Weight	8 lbs. (3.63 kg.) with 20 batteries	2.5 lbs. (1.14 kg.) with 6 batteries
	6.38 lbs. (2.89 kg.) without batteries	2.1 lbs. (.96 kg.) without batteries
Width	Approximately 55 cm (21.65 in.)	Approximately 26.67 cm (10.5 in.)
Depth	Approximately 15.8 cm (6.22 in.)	Approximately 11.43 cm (4.5 in.)
Height	Approximately 15.7 cm (6.18 in.)	Approximately 12.06 cm (4.75 in.)
Input	Power supply input voltage: 90VAC to 264VAC, 50/60Hz	Power supply input voltage: 100VAC to 240VAC, 50/60Hz
	Power supply input current: 2A max	Power supply input current: 2A max
Output	Power supply output voltage: 12V	Power supply output voltage: 5V
	Power supply output power: 80W max	Power supply output power: 20W max
	Less than 40W required to charge 20 batteries from fully depleted to fully charged.	Less than 10W required to charge 6 batteries from fully depleted to fully charged.
Cord	Uses standard IEC 60320 plug	Uses wall adapter with switchable plugs provided in kit
Operating Temperature	32° to 104° F (0° to 40° C)	32° to 104° F (0° to 40° C)
Storage Temperature	-40°F to 158°F (-40° to 70°C)	-40°F to 158°F (-40° to 70°C)
Humidity	5% - 95% relative humidity, non- condensing	5% - 95% relative humidity, non- condensing

#### **SRX2 Charger Specifications**

**Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

(!) **CAUTION:** The 5V power supply for the 6-bay unit is a small wall-mounted supply at the end of the cord. The Plug Socket of the power supply is considered the Disconnect Device to the A.C. Mains. The socketoutlet shall be installed near the equipment and shall be easily accessible.

# **SRX2 Battery Charger Wall Mount**

The *SRX2* battery charger is ready for mounting on a standard DIN rail without any customer modifications. A DIN rail must be installed on a wall in a suitable location. Honeywell offers a DIN rail suitable for mounting a single charger, but customers may choose to purchase rails from other suppliers as long as the rails meet Honeywell specifications. Consider the following before wall mounting your charger.

- Customer assembly required for the rail wall mount.
- Customer assumes all responsibility for the installation of charger units.
- Installer must verify that the installation meets all local building codes.
- Avoid potential hazards (electrical wires, waterlines, and similar building components) when drilling into the wall.
- Avoid blocking power outlets and other wall receptacles when installing the rail and charger.
- Anchoring a wall mount rail to a wall stud generally results in a more stable installation. If you drill into a wall stud, do not use a screw anchor in that hole.
- If you are mounting two chargers side by side, you must leave at least 1 in. (2.54 cm.) of space between the two units to allow clearance for the locking arms.
- To allow for proper attachment, seating, and removal of the charger unit the rails must be anchored to the wall at least 12 in. (30.5 cm.) from the floor with the product not exceeding 2 meters (200 cm.) from the floor
- If you are mounting a charger directly above another charger, Honeywell recommends clearance of at least 10 in. (25.4 cm.) between DIN rails with the product not exceeding 2 meters (200 cm.) from the floor.



Figure 117: SRX2 20-Bay charger - back view

Part Number in Diagram	Description	
1	power supply	
2	rubber stop for leveling charger against wall	
3	locking arm for securing charger to DIN rail	
4	mounting hook for hanging charger on DIN rail	
5	USB port for charger software upgrades	

**Note:** The 6-Bay charger view is similar, but it has a different USB slot location and does not have a large power supply. Instead, the power supply is a small wall-mounted supply at the end of the cord.

### Mounting the SRX2 Battery Chargers

You will need:

 DIN rail, slotted steel 35 mm X 15 mm, Honeywell Part #CM-1000-20-101 or customer-supplied DIN rail meeting the following specifications

Number of chargers on rail	Minimum cut lengths for rail	DIN rail specs	Standard DIN rail
1	550 mm	Single unit length 550 mm; weight 331.5 g (11.6933 oz)	11/21
2	1101 mm	35 1.38"	11/2/1
3	1652 mm	24 .650 .51 .650	

- Drill
- Fasteners
- Screw driver
- 1. Install the DIN rail on the wall in the desired location. Ensure that the secure installation, supporting surface, and mounting hardware will safely support the weight of a fully loaded charger, at 25 lbs. per linear foot (37.2 kg/m) of DIN rail. Ensure that the anchor holes are at least 12 inches (30.5 cm.) from the floor. Verify that the installation meets all local building codes.
- 2. (! Important: The power supply for the charger should already be zip-tied in the back of the charger chassis. If it is not, plug the power supply into the charger and secure it. Do not plug it into a power source until after mounting is complete.

Before attaching the charger to the rail, open the locking arms on the back of the unit by rotating the two levers out on each side of the charger. The arms are parallel to the floor in the unlocked position.

3. Attach the charger to the DIN rail by hanging the two hooks on the back of the unit on the top lip of the rail.



### Attaching the SRX2 Charger to a DIN Rail



- 4. Slide the charger horizontally to the desired position on the rail, and rotate the locking arms into the locked position flush with both sides of the unit.
- 5. If the charger does not feel secure on the rail, adjust the rubber stops on the back of the unit by screwing them out toward the wall.
- 6. Plug the power supply into a power source and check the LED indicator at the bottom right of the charger face. If the indicator light is a solid green, the charger is powered on.

# Appendix

# A

# **Template Training Options**

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# **Topics:**

• Training with the Talkman Device Only

All new operators must train their voice templates (all the words that he or she will use in the voice-directed workflow) in order to perform a task with the Vocollect Voice system. Supervisors have options for operators to train templates when using a device.

**Note:** Always speak in your normal tone of voice when training templates.

# Training with the Talkman Device Only

Your supervisor must set up the system to use the voice-only option for creating templates with a handheld device.

- Turn your device on by pressing the Play/Pause button. The LED indicator turns red for a few moments then turns green. The device says, "Please keep quiet for a few seconds." After a pause, the device says, "Please say zero."
- 2. Say "Zero." The device says "One."
- 3. Say "One." The device says, "Two."
- Say "Two." The device says, "Please say the following words..."
- 5. As the device says each word, say it back to the device. The device will prompt you with the same word at least four times; repeat the word each time it asks. If it prompts you for phrases, say the phrase naturally, without pauses between the words.

When the device has asked for all words in the task the necessary number of times, the device will say, "Creating voice templates. Please wait." It will then beep periodically until all of the remaining voice templates have been created. When the remaining voice templates have been created, the device says, "Finished creating voice templates." The device then goes to sleep. You can begin the task by pressing the Play/Pause button.

This process can be improved when used in conjunction with the section "Training Using a Printed List of Words" as found below.

# Appendix **B**

# Honeywell<sup>™</sup> Regulatory Compliance

This appendix contains the regulatory compliance information for Honeywell products.

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