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Appendix K: Manual

Please refer to the following pages; the compliance information appears in Appendix A.



Vocollect Hardware Documentation

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Notice

About Vocollect Documentation

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Chapter 1

Introduction

The Vocollect Hardware Documentation contains comprehensive information about hardware products and peripherals.

This document includes the following information:

- Safety information
- Hardware specifications
- Installation procedures, and basic operating instructions for Vocollect hardware and/or third party devices that are compatible with Vocollect 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 Vocollect 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.

Statement of Agency Compliance

Vocollect 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. Vocollect 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 Vocollect could void the user's authority to operate the equipment.

Vocollect 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.

Danger:

- 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 qualified for the product you are using. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard.
- In the event of a battery leak, do not allow the liquid to come in contact with skin or eyes. If contact is made, wash the affected area with large amounts of water and seek medical advice.
- Seek medical advice immediately if a battery is swallowed.
- If at any time you witness a battery starting to balloon, swell up, smoke, or show signs of getting hot, discontinue charging process immediately and disconnect the battery. 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.
- Vocollect batteries should not be used by children.
- Vocollect shall not be held responsible for any damages caused by equipment malfunction when used with non-Vocollect batteries.
- Vocollect shall not be held responsible for any damages caused by equipment malfunction when using a non-Vocollect 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. Vocollect's batteries can be shipped under Special Provision 188 of 49 CFR 172.102 or IATA exception A45.
- Do not expose a battery to rain or water.
- Never disassemble a battery.
- Do not leave a battery under strong sunshine.

- Store batteries in a rugged receptacle and cover with a lid.

Cleaning Procedures for Vocollect Equipment

Vocollect products have a long service life if they are maintained properly. Proper care includes following recommended cleaning practices and procedures.

While Vocollect 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 over time. Users may begin to experience degraded product performance and diminished product life. For example:

- Dirt or corrosion that interferes with the proper setting of terminals in chargers may cause intermittent charging and appear to be a battery problem.
- Wet Talkman[®] Connector (TCO) contacts that build up dirt, chemicals, and corrosion may cause intermittent contact, static and recognition problems.
- Excessive dirt on a keypad membrane may contain a high concentration of chemicals that can cause the membrane to weaken and tear.

When equipment is visibly retaining dirt from the workplace, Vocollect recommends that it be cleaned.

Cleaning Plastics

While Vocollect equipment is resistant to normal residue from the workplace environment, a long term build-up of residue from the workplace may damage it and lead to degraded performance and diminished product life.

 **Caution:** Use **only** a solution of 30% isopropyl alcohol and water to clean the hard plastics on equipment. Other products have not been tested and may degrade the equipment.

Cleaning Hard Plastics

The hard plastics on headsets, devices, chargers, and batteries should be cleaned with a soft cloth that is wet with a solution of 30% isopropyl alcohol and 70% 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.

No other cleaning solution or method is recommended. Other products may compromise the durability and life of the equipment.

Cleaning Foam and Pliable Plastics

Headset foam parts (ear pads and headband pads) as well as flexible bands and non-foam padding may be cleaned with a mild soap and water. The pads should be washed carefully so as not to tear them or detach them from mountings.

The parts should be air dried. Use of a concentrated heat source such as a hairdryer or clothes dryer is not recommended.


Pads that are excessively dirty, such as headset windscreens should be replaced.

Detailed Cleaning Instructions

See [Cleaning Headsets](#) for detailed steps.

Cleaning Contacts

While Vocollect equipment is resistant to normal residue from the workplace environment, a long term build-up of residue from the workplace may damage it and lead to degraded performance and diminished product life.

 **Caution:** Vocollect recommends using **only** a solution of 30% isopropyl alcohol and water to cleaning equipment. Other products have not been tested and may degrade the equipment.

Flat contact areas on the device, such as the Talkman Connector (TCO), or flat contacts on the battery and charger should be cleaned with the recommended 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.

Corrosion may be removed 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 toothbrush style, general 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.

Battery contacts must never be bent or manipulated.

Contacts that are extremely corroded, bent, or missing should be repaired or replaced by an authorized Vocollect Service Center.

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 Vocollect Technical Support.

Vocollect Reseller Services

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

Vocollect Technical Support

Contact Technical Support for product related technical questions, system support incidents, and related technical issues:

United States

Phone: 866-862-7877

Email: support@vocollect.com

Europe, Middle East, Africa

Phone: +44 (0) 1628 55 2902

Email: emeasupport@vocollect.com

Americas (outside U.S.)

Australia, New Zealand

Phone: 412-829-8145, option 3, option 1

Email: support@vocollect.com

Japan and Korea

Phone: +813 3769 5601

Email: japansupport@vocollect.com

Vocollect Customer Service

Contact Vocollect Customer Service for order placement, order status, returns, Return Material Authorization (RMA) status, or other customer service issues:

United States

Phone: 866-862-6553, option 3, option 2
 Email: voccustsupp@voccollect.com

Europe, Middle East, Africa

Phone: +44 (0) 1628 55 2903
 Email: CustomerServicesEMEA@voccollect.com

Americas (outside U.S.)**Australia, New Zealand**

Phone: 412-829-8145, option 3, option 2
 Email: voccustsupp@voccollect.com

Japan and Korea

Phone: +813 3769 5601
 Email: japan@voccollect.com

Voccollect RMA

To return equipment for repair, contact Voccollect RMA to request an RMA number:
 Email: voccollect-rma@voccollect.com

Sales and General Inquiries**Voccollect Corporate Headquarters**

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Patents and Intellectual Property

Voccollect products are protected by one or more of the following patents.

U.S. Patents

- 6,910,911; 7,052,799

U.S. Design Patent Numbers

- D549,216; D525,237; D549,217; D529,438; D530,667; D551,615; D549,694; D552,595; D554,642.

Other U. S. and worldwide patents pending.

Chapter 2

Talkman Devices and Headsets

Vocollect Talkman® 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 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 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 and A500 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™, 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 Vocollect 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 unless it has been properly powered off.
- Vocollect designed the Talkman to be worn on the right side of the body with the device's buttons on the top (T5-series, T2-series, A500) or facing front (T1) and its connectors toward the operator's back (A500, T5-series, T2-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 Vocollect headsets to protect the equipment and ensure optimum speech recognition performance.
- Vocollect recommends changing headset windscreens every 90 days to ensure the best performance.

 **Caution:** Use **only** a solution of 30% isopropyl alcohol and water to clean the hard plastics on equipment. Other products have not been tested and may degrade the equipment.



More Product Care Information

- See [Cleaning Procedures for Vocollect Equipment](#) for proper care of plastics and contacts.
- See [Care and Use of Headsets and Microphones](#) for more information on these products.
- For important handling instructions for the T1's headset, the SL-4, see [Proper Use and Care Instructions for Talkman T1 and SL-4/SL-14 Headsets](#)

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 first turns solid red while the processor reboots. It then flashes red and green, turns solid, blinks red, then turns solid green (A500, T5-series and T2-series) or the LED indicator turns solid green (T1).
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..



- **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), unless it has been blinking red for several minutes. If a device is turned off when its LED indicator is blinking red, 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.

Loading an Operator's Templates

You need a device with a charged battery, headset, and any other equipment (belt, bar code reader) you are going to use. You must be within radio range. Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).

1. Press the Operator button.
The device says "Current operator is *operator name*. Select menu item."
2. Press the + button or — button until the device says, "Change operator."
3. Press the Operator button.
4. The device says, "Please wait" and retrieves a list of operators and teams. Wait for the device to say, "Select team".
 - If the device says "Current operator is (operator name). Change operator", skip to step 8.
5. Press the + button or — button to scroll through the list of operator teams until you hear the name of a team to which you belong.
6. Press the operator button.
The device says, "Please wait" and retrieves a list of all operators who belong to the team that was selected. The device then says, "Current operator is (operator name). Select new operator."
7. Press the + button or — button to scroll through the list of available operator names until you hear your name.
 - If you do not hear your name, press the yellow play/pause button to cancel this operation and start over from step 2.

- When selecting a team in step 5, choose the "All Operators" team.
 - Consult with your supervisor if you are not listed in the "All Operators" team.
8. Press the operator button.
The device says, "Loading operator" and loads your templates. Once it has loaded your templates, the device says, "Current operator is (your operator name). Good night." The device then goes to sleep. The next time you turn the device on, it will be ready to use.

Adjusting the Voice

Each Vocollect Talkman device uses Vocollect Voice software to provide instructions to the operator and prompt them for responses.


The actual voice that speaks to the operator can be adjusted in several ways so that the operator can hear and understand the information clearly.

- Adjust the pitch of the voice lower or higher
- Adjust the volume of the voice louder or softer
- Adjust the speed of the voice slower or faster
- Change the gender of the voice to male or female


Before making any changes to the voice: Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).

Adjusting the Pitch

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).

 **Note:** You can only adjust the pitch for certain languages and certain Voices.

1. Press the Operator button.
The device says "Current operator is *operator name*. Select menu item."
2. Press the + or — button until the device says "Change pitch."
3. Press the Operator button.
If you use the + button to scroll through the options, Change Pitch is the fifth menu item in the list.
4. Press the + button to make the voice higher or the — button to make the voice lower.
The device says "higher" each time you press the + button and "lower" each time you press the — button. If the pitch of the voice is at the highest possible setting, it says "This is highest." If the pitch of the voice is at the lowest possible setting, it says "This is lowest."

 **Note:** You can exit this menu without changing the settings by pressing the Play/Pause button before you press the Operator button.

5. When the pitch reaches the level you want, press the Operator button to save the new pitch setting.

Adjusting the Volume Using Voice

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).

1. Say "Talkman volume".
2. Say "louder" to increase the volume or "softer" to decrease the volume.

If the device says "This is softest" or "This is loudest", you cannot make the volume any louder or softer.

3. When the voice is as loud or as soft as you want it, say "Talkman continue" to return to work.

Adjusting the Volume Using Device Buttons

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).

Press the + button to make the voice louder or the — button to make the voice softer.

The device says "louder" when the + button is pressed and "softer" when the — button is pressed. If the volume of the voice is at the loudest possible setting, it says, "This is loudest." If the volume of the voice is at the softest possible setting, it says, "This is softest."

Adjusting the Speed

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).


1. Press the Operator button.
The device says "Current operator is *operator name*. Select menu item."

2. Press the + or — button until the device says "Change speed."

3. Press the Operator button.

If you use the + button to scroll through the options, Change Speed is the fourth menu item in the list.

4. Press the + button to make the voice faster or the — button to make the voice slower.
The device says "faster" each time you press the + button and "slower" each time you press the — button. If the speed of the voice is at the fastest possible setting, the device says "This is fastest." If the speed of the voice is at the slowest possible setting, it says "This is slowest."

 **Note:** You can exit this menu without changing the settings by pressing the Play/Pause button before you press the Operator button.

5. When the voice is speaking as quickly or as slowly as you want, press the Operator button to save the new speed setting.

Changing the Speaker's Gender

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (A500, T5-series and T2-series) or solid green (T1).


1. Press the Operator button.
The device says "Current operator is *operator name*. Select menu item."

2. Press the + or — button until it says, "Change speaker."

3. Press the Operator button.

If you use the + button to scroll through the options, Change Speaker is the sixth menu item in the list.

4. Press the + or — button to hear the next speaker.
The device says, "This is female" when it toggles to the female voice, or "This is male" to indicate the male voice.

 **Note:** You can exit this menu without changing the settings by pressing the Play/Pause button before you press the Operator button.

- When you hear the speaker you want to use, press the Operator button to select that speaker.

Understanding Talkman Commands

The Talkman device prompts the operator for responses that are specific to the voice-directed work he or she is performing. Several basic Talkman commands, however, can be spoken by the operator at almost any time while using the device.

You want to...	Spoken Command
Repeat the current prompt	"Talkman continue"
Erase the current response and repeat the current prompt	"Talkman backup" or "Say again"
Put the device in sleep mode	"Talkman sleep"
Wake up the device	"Talkman wake up"
Hear a list of vocabulary words that you can say at the current prompt	"Talkman help"
Erase the last word you said	"Talkman erase"

Part Numbers: Vocollect Talkman Devices

Device	Vocollect Part Number
Talkman A500 (A/B/G)	TT-800
Talkman A500 (B/G)	TT-801
Talkman T5m	TT-700-100-M
Talkman T5	TT-700
Talkman T2x	TT-601
Talkman T1	TT-100

Part Numbers: Talkman Accessories

Part Numbers for ordering Vocollect Talkman Accessories

Accessory	Vocollect Part Number
T5/A500 Cover	EO-700-1
T2 Series device Cover	TC-601-1
T5/A500 Shoulder Harness	HI-700-1
T5/A500 Belt with Clip	BL-700-1 - BL-700-7

Accessory	Vocollect Part Number
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
A500/T5 High-Performance Battery	BT-700-2
T2 Series Standard Battery	BT-601
T2 Series High-Capacity Battery	BT-602
T1 Standard Battery	BT-101
Vehicle Mount, Holder, Talkman A500/T5 Series	BL-710-1
Vehicle Mount, Holder/Base Screw On Attachment, Talkman A500/T5 Series	BL-710-101
Vehicle Mount, Arm, Talkman A500/T5 Series	BL-710-102
Vehicle Mount, Clamp, Talkman A500/T5 Series	BL-710-103
Battery Adapter, DC-DC, Talkman A500/T5 Series	BT-710
Cable, Battery Adapter, Push On, Talkman A500/T5 Series	CM-710-102
Power Supply, 9-36 VDC Input	CM-710-110
Power Supply, 18-60 VDC Input	CM-710-111
Training Poster (English), Charging Batteries	695212-EN-US
Training Poster (English), Special Features, Talkman Terminal	695214-EN-US
Training Poster (English), When You Start a Shift	695216-EN-US
Training Poster (English), When You Finish a Shift	695215-EN-US
Training Poster (English), Before Returning a Terminal	695217-EN-US
Training Poster (English), Creating Voice Templates	695218-EN-US
Training Poster (English), Disconnecting Cables	695219-EN-US

Choosing the Right Headset

In deciding which headset to purchase, it may be beneficial for workers to try several different models to find the best fit for their jobs and environments.

Customer User	SL-4/ SL-14	SR-15	SR-20	SR-30	SR-35	SR-40	SRX	SRX2
General use headset		X	X				X	X
Light industrial/customer facing	X							
Freezer use		X	X	X	X	X		X
Behind the head	X	X						
High noise areas				X	X	X		
Use with hard hat	X	X			X			
Wireless							X	X
Extreme (large/small) head size	X	X						X
Extreme (large/small) ear size			X	X	X	X	X	X

Part Numbers: Wired Headsets

Part Numbers for ordering Vocollect headsets and accessories

All wired headsets come with a straight cord unless otherwise noted.

Part	Part Number
SR-40 Vocollect® Dual-Cup Headset	HD-705-1
SR-35 Vocollect® Hard-Hat Headset	HD-704-1 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: Wired Headset Accessories


Part Numbers for ordering Vocollect headset supplies

Part (SL-4/SL-14 Wired Headset)	Part Number
Windscreen, SL-Series Headsets (Bag of 50)	HS-708-102b
Cord Clips, SL-Series Headsets (Bag of 20)	HS-708-103b
Training Poster (English), SL-4/14	PK-HS-708-4-2
Training Poster (English), SL-4/14	PK-HS-708-14-2

Part (SR-15 Wired Headset)	Part Number
Windscreen, SR-Series Headsets (Bag of 25)	HD-700-102b
Cord Clip, SR-Series Headsets (Bundle of 10)	HD-700-103b
Foam Ear Pads, SR-15 (Bag of 25)	HD-708-107b
Adjustment Strap, SR-15 (Bag of 10)	HD-708-110b
Headband Cord Clip, SR-15 (Bag of 10)	HD-708-111b

Part (SR-20/21 Wired Headset)	Part Number
Maintenance Kit, SR-20 (25 foam earpads, 30 headband pads, 10 earpad mounting disks)	HD-700-101
Windscreen, SR-Series Headsets (Bag of 25)	HD-700-102b
Cord Clip, SR-Series Headsets (Bundle of 10)	HD-700-103b
Leatherette Earpad, SR-20/21 (Bag of 25)	HD-700-104b
Earpads, Foam w/ Mounting Disks, SR-20/21 (50 earpads, 25 mounting disks)	HD-700-105b
T-Bar Pad, SR-Series Headsets (Bag of 25)	HD-700-106b
Foam Ear Pads, SR-20 (Bag of 25)	HD-700-107b
Mounting Disks, SR-20 Headsets (Bag of 10)	HD-700-108b
Headband Pads, SR-20 (Bag of 30)	HD-700-109b
Earpads, #2, Foam with Mounting Disks, SR-20/21 (50 earpads assembled with mounting disks)	HD-700-125b
Earpads, #3, Foam w/ Mounting Disks, SR-20/21 (50 earpads assembled with mounting disks)	HD-700-126b
T-Bar Pad, #2, SR-Series Headsets (Bag of 25)	HD-700-140b
Earpads, Leatherette with Mounting Disks, SR-20/21 (50 leatherette ear pads, 5 mounting disks)	HD-701-105b
Training Poster (English), Wearing a Headset, SR-20/21	695211-EN-US Rev. B
Training Poster (English), Replacing the Ear Pad, SR-20/21	695210-EN-US Rev. B

Part (SR-30/31 Wired Headset)	Part Number
Windscreen, SR-Series Headsets (Bag of 25)	HD-700-102b
Cord Clip, SR-Series Headsets (Bundle of 10)	HD-700-103b
T-Bar Pad, SR-Series Headsets (Bag of 25)	HD-700-106b
Headband Pads, SR-20 (Bag of 30)	HD-700-109b
Maintenance Kit, SR-30, 31, 35, and 40 (15 foam ear pads, 30 headband pads, and 5 ear pad mounting disks)	HD-702-101
Earpad, Smooth Leatherette, SR-30, 31, 35, and 40 (Bag of 10)	HD-702-102b
Earpad, Textured Leatherette, SR-30, 31, 35, and 40 (Bag of 10)	HD-702-103b
Mounting Disks, SR-30 (Bag of 5)	HD-702-108b

Part (SR-35 Wired Headset)	Part Number
Windscreen, SR-Series Headsets (Bag of 25)	HD-700-102b
Cord Clip, SR-Series Headsets (Bundle of 10)	HD-700-103b
Headband Pads, SR-20 (Bag of 30)	HD-700-109b
Maintenance Kit, SR-30, 31, 35, and 40 (15 foam ear pads, 30 headband pads, and 5 ear pad mounting disks)	HD-702-101
 Note: Headband Pads are not used with the SR-35 headset.	
Earpad, Smooth Leatherette, SR-30, 31, 35, and 40 (Bag of 10)	HD-702-102b
Earpad, Textured Leatherette, SR-30, 31, 35, and 40 (Bag of 10)	HD-702-103b
Mounting Disks, SR-30 (Bag of 5)	HD-702-108b
Clip, SR-35 Vocollect® Hard Hat Headset (required to mount the headset to a hardhat)	HD-704-101

Part (SR-40 Wired Headset)	Part Number
Windscreen, SR-Series Headsets (Bag of 25)	HD-700-102b
Cord Clip, SR-Series Headsets (Bundle of 10)	HD-700-103b
Headband Pads, SR-20 (Bag of 30)	HD-700-109b
Maintenance Kit, SR-30, 31, 35, and 40 (15 foam ear pads, 30 headband pads, and 5 ear pad mounting disks)	HD-702-101
Earpad, Smooth Leatherette, SR-30, 31, 35, and 40 (Bag of 10)	HD-702-102b
Earpad, Textured Leatherette, SR-30, 31, 35, and 40 (Bag of 10)	HD-702-103b
Mounting Disks, SR-30 (Bag of 5)	HD-702-108b

Part (Various Wired Headsets)	Part Number
Vocollect Headset Adapter, Symbol® MC9090-S to Vocollect Breakaway Connector	AD-100-2
Vocollect Headset Adapter, Symbol® MC9060-S to Vocollect Breakaway Connector	AD-100-3

Part (Various Wired Headsets)	Part Number
Vocollect Headset Adapter, Symbol® MC9060-S to Vocollect Breakaway Connector, Replacement Mount Plate Assembly	AD-100-101

Part Numbers: Wireless Headsets

Part Numbers for ordering Vocollect headsets and accessories

Part	Part Number
SRX Speech Recognition Headset Complete	HD-800-1
SRX2 Headset 1 Complete Headset, 1 Battery (1 headband, all pads and strap, 1 electronics module, 1 battery, 1 mic cap)	BUNDLE-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)	BUNDLE-HD-1000-20

Part Numbers: Wireless Headset Accessories

Part Numbers for ordering Vocollect headset supplies

Part (SRX Wireless Headset)	Part Number
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
SRX Training Kit	SK-800
SRX Training Poster (English) - Automatic Pairing	695220-EN-US Rev. 1

Part (SRX Wireless Headset)	Part Number
SRX Training Poster Kit (English), automatic and manual pairing, poster and cards	SK-700

Part (SRX2 Wireless Headset)	Part Number
SRX2 Electronics Module	HD-1000-101
SRX2 Headband with Stability Strap (not assembled)	HD-1000-102
SRX2 Electronics Module Storage Rack	HD-1000-103
SRX2 Microphone Caps (Bag of 20)	HD-1000-104B
SRX2 Ear Pads (Bag of 20)	HD-1000-105B
SRX2 Comfort Pads (Bag of 20)	HD-1000-106B
SRX2 T-Bar Pads (Bag of 20)	HD-1000-107B
SRX2 Stability Straps (Bag of 20)	HD-1000-108B
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

Part Numbers for ordering Vocollect Talkman Chargers

Charger	Vocollect Part Number
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/T5 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/T5 10-Bay Combination Charger Mounting Bracket	CM-701-1 (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	Vocollect Part Number
SRX 5-Bay Battery Charger	CM-801-1
SRX Single-Bay Battery Charger	CM-800-1
SRX2 20-Bay Battery Charger	CM-1000-20
SRX2 Charger DIN Rail, 550 mm length	CM-1000-20-1

Chapter 8

Vocollect Wireless 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.

The Vocollect® SRX-Series 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.

All Vocollect SRX-Series 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 Vocollect 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 80: SRX Wireless Headset

The Vocollect[®] 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.

- 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[®] 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	<ul style="list-style-type: none"> • 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

Charging the SRX Headset



Figure 81: 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 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 Vocollect 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.

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.

Battery Warm-Up Time

If a battery has been used in a cold environment, it will not begin charging until it warms up sufficiently.

Temperature of battery use	Approximate warm-up time
-4°C (24.8°F)	6 minutes
-10°C (14.0°F)	10 minutes
-20°C (-4°F)	22 minutes
-30°C (-22°F)	30 minutes

Installing the SRX Mobility Strap

1. Remove the battery from the SRX Wireless Headset.
2. Feed the lanyard end of the mobility strap through one of the eyelets in the headset's battery compartment. You may find it helpful to push the lanyard through with the tip of a screwdriver. Be sure to feed the lanyard in the direction shown in the image.



Figure 82: Feeding the Lanyard Through an Eyelet

3. Feed the lanyard back through the other eyelet in the battery compartment.



Figure 83: Feeding the Lanyard Back Through

4. Create a secure loop by inserting the end of the mobility strap with the clip through the lanyard's loop and pulling it tight.



Figure 84: Inserting the Mobility Strap

5. Clip the other end of the mobility strap to the molded plastic loop on the headset.



Figure 85: Clipping the Strap to the Loop

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 86: Mobility Strap Worn Properly

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






Figure 87: Moving the Microphone Into Position

5. Make final adjustments with the flexible boom so that the microphone is positioned at the corner of your mouth, about 1/4" away from your face.

Headset Functions and LED Patterns for SRX

Headset Function	User Action	Headset Mode	LED Pattern	Tone
Power On	Hold the Plus (+) and Minus (-) buttons for one second	Headset powers on and searches for the previously-connected device. No new pairing takes place.	Quick flutter	Two high-pitched tones
Power Off	Hold Plus (+) and Minus (-) buttons for three seconds when headset is powered on	Headset is powered off and cannot be used to perform work	Solid blue, then turns off. ! Important: Do not remove the battery until the LED is off.	Two low-pitched tones
Increase volume	Press the Plus (+) button	N/A	N/A	Current audio gets louder
Decrease volume	Press the Minus (-) button	N/A	N/A	Current audio gets softer

Headset Function	User Action	Headset Mode	LED Pattern	Tone
Force disconnect for manual pairing in low power mode	Hold the Plus (+) and Minus (-) buttons for four seconds	Headset disconnects current pairing and enters low power pairing mode Headset attempts to pair with the nearest un-paired Bluetooth device. Previous pairing erased from headset's memory.	Constant quick flash: four flashes per second (50 ms on, 200 ms off)	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, hold the Plus (+) and Minus (-) buttons for seven seconds	Headset enters high power pairing mode Headset attempts to pair with the nearest un-paired Bluetooth device. Previous pairing erased from headset's memory.  Note: This mode is recommended when pairing an SRX headset with a handheld device  Note: Vocollect does not recommend this pairing mode for Talkman devices. This mode greatly increases the likelihood that your headset will pair with the wrong device.	Constant flash in which LED stays lit longer: about two flashes per second (350 ms on, 50 ms off)	No tone when entering mode. Three ascending tones upon pairing with a device
Lost connection: <ul style="list-style-type: none">• A previously-paired device is not detected by the headset at power on• A paired device is powered off• Low Power or High Power Pairing modes fail to pair with a device within 60 seconds	N/A	The headset cannot find an un-paired Bluetooth device within range. Headset remains in this mode for 10 minutes while it waits for a previously-paired device to come within range. After 10 minutes of no activity, the headset powers off.	Repeating pattern of three quick flashes, then off for about a second.	Three descending tones when the connection to the master device is dropped

Headset Function	User Action	Headset Mode	LED Pattern	Tone
Low Battery	N/A	Headset automatically enters this mode when the battery's remaining charge reaches a minimum threshold.	Constant very quick flutter (about 10 flashes per second).  Note: When the LED is blinking in Low Battery mode, no other LED pattern is displayed unless both buttons are held to power off the headset.	No tone. Voice prompt: "Headset battery is getting low," or "Headset battery is getting low. Change headset battery now."

Vocollect SRX2 Wireless Headset



Figure 88: SRX2 Wireless Headset

The Vocollect SRX2 Wireless Headset is the second generation wireless headset from Vocollect 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 software, the SRX2 headset with Vocollect SoundSense™ 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™ 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™ Technology (with RFID reader equipped Voice-enabled devices)
- Enhanced data rates with 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	6.84 ounces (194 g) with stability strap 6.46 ounces (183 g) without strap
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 style="list-style-type: none"> • 24 drops from 6 feet (1.83 m) at minimum and maximum operating temperatures • 12 drops from 7 feet (2.13 m) at minimum and maximum operating temperatures
Enclosure rating	Meets IP54 with battery inserted
Humidity	5-95% condensing
Noise Reduction Rating	Not applicable

SRX2 Modular Design

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, Vocollect recommends sharing only the electronics module. Assign each operator his or her own headset band, ear pad, and microphone cap.



Figure 89: SRX2 headset and electronics module



Figure 90: Removing mic cap and stowing in mic cap pocket

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 91: 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.

SRX2 Compatibility

Vocollect has tested the SRX2 Wireless Headset with the following devices and Vocollect Voice Software versions. Support and compatibility of the SRX2 headset is not limited to these products, but the customer assumes risks related to untested configurations.

Device	Vocollect Voice Software
Vocollect Talkman A500 and Talkman A500 VMT	VoiceClient® 3.8 and newer VoiceCatalyst® 1.1 and newer
Vocollect Talkman T5 and Talkman T5 <i>m</i>	VoiceClient 3.8 and newer
Windows XP PC and other supported display terminals	VoiceCatalyst MP for Windows XP 1.0 and newer
Intermec® CK3	VoiceClient MP 2.0 and newer
Intermec CV61	VoiceCatalyst MP for Windows XP 1.0 and newer
Psion WORKABOUT Pro G2 Psion WORKABOUT Pro (WAP3) Psion NEO	VoiceClient MP 2.0 and newer
Motorola® MC9500	VoiceClient MP 2.0 and newer

Charging the SRX2 Headset



Figure 92: 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 Vocollect 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.  **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.

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 93: 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.

SRX2 Battery Warm-Up Time

If a battery has been used in an extreme hot or extreme cold environment, charging will not start immediately.

When the battery is placed in the charger, the battery port LED indicator will turn yellow. Charging will only begin after the battery reaches the proper temperature range - 32° F (0° C) to 104° F (40° C). It may take up to 30 minutes for the battery to reach a safe temperature.

If battery temperature does not come into range in about one hour, the red LED will blink indicating that there is a charger fault.

Wearing an SRX2 Wireless Headset

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



Figure 94: 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 95: Moving the Microphone Into Position

5. Make final adjustments with the flexible boom so that the microphone is positioned at the corner of your mouth, about 1 inch (2.5 cm) away from your face.

Installing the Stability Strap on the SRX2 Wireless Headset

1. Hold the headset so that the earpad faces you and the electronics module faces away.
2. Locate the knob on the inside of the headband near the earpad.
3. Hold the strap so that the end with the hole fits over the knob on the headband, and press down firmly so the knob comes all the way up through the hole.



Figure 96: Pressing the strap onto the earpad side of the headband

4. Turn the headset so that the t-bar pad faces you.
5. Locate the slot on the end of the headband near the t-bar.
6. Align the knob at the free end of the strap with the slot on the headband.
7. Slide the knob into the slot until it snaps into place.



Figure 97: Inserting the strap into the headband slot

8. Position the strap to go around the back of your head. The strap swivels freely on the two knobs so that it can be positioned at the back of the head for either right-ear or left-ear wearing of the headset.

Replacing an Earpad on the SRX2 Headset

1. Hold the headset so that the earpad faces you and the electronics module faces away.
2. Grasp the earpad and earpad plate assembly and rotate them to the left to unlock the plate from the headband.
3. Lift the pad and plate assembly off of the headband.
4. Install the replacement pad.
 - a) Remove the ear pad by pulling it away from the ear pad plate.
 - b) Slide one side of the new pad over the edge of the ear pad plate and gently stretch the pad until it covers the plate.
 - c) Ensure that the lip of the new pad completely covers the ear pad plate all the way around.



Figure 98: Installing a new earpad



5. Place the new earpad and earpad plate assembly onto the headset earpiece.
6. Rotate the assembly to the right pressing gently into the earpiece until the assembly locks into place.

Headset Functions and LED Patterns for SRX2



Figure 99: 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: Vocollect 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 Headset Software Update Tool

With the introduction of its SRX2 Wireless Headset, Vocollect developed the **Vocollect Headset Software Update Tool**.

Part of maintaining the SRX2 headset involves an occasional software update of the Bluetooth chipset. Vocollect releases these updates when they become available. The **Vocollect Headset Software Update Tool** provides an easy solution for keeping the software versions current in both SRX2 headsets and SRX2 headset battery chargers.

The Headset Software Update Tool:

- Runs on Microsoft Windows XP, Windows 7, and Windows 2008 32-bit operating systems.
- Can update multiple SRX2 headsets at the same time.
- Can update an SRX2 battery charger and SRX2 headsets at the same time.
- Applies the updates via a standard USB cable and port.
- Provides a user-friendly interface that shows the real-time upgrade progress.
- Allows users to save existing headset software to a file.



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! **Important:** This application was intended for SRX2 headset and charger updates. Do not use this tool for SRX headsets.

Installing the Vocollect Headset Software Update Tool

Before installing:

- Ensure that the computer that will host the tool is running a supported Windows operating system.
- The computer running the application should be a 32-bit machine.

1. Insert the Headset Software Update Tool installation DVD into the DVD drive and search the contents.
2. Run setup.exe and follow the on-screen instructions.
3. Set the installation folder name and path.

This folder will also be the location for software backup files and application log files.

4. Confirm your settings to start the installation.
5. After the installation completes, launch the application from the desktop shortcut or installation folder.

Installing the USB Driver for the SRX2 Update Tool

After installing the Vocollect Headset Software Update Tool:

1. Launch the application from the desktop shortcut or installation folder.
2. Install the Vocollect USB driver by performing the steps for your operating system.

USB Driver Installation on Windows XP

- a) Connect a headset using a USB cable. The Microsoft Found New Hardware Wizard should start automatically and detect a USB device. If it does not, open Control Panel and double-click "Add Hardware."
- b) Select "Install from a list or specific location."





- c) Browse to the USBDrivers folder on the installation DVD.
- d) Complete the installation.

USB Driver Installation on Windows 7 or Windows 2008

- a) Launch **Device Manager** and navigate to **Bluetooth Radios > Generic Bluetooth Adapters**.
- b) Right-click and select the "Update Driver Software" menu option.
- c) Select "Locate and install driver software manually."
- d) Select "Let me pick from a list of device drivers on my computer."
- e) Click the **Have Disk...** button, and browse to the USBDrivers folder and driver file on the installation DVD.
- f) Complete the installation. If a security warning appears, select "Install this driver software anyway."

3. You will be prompted to repeat the driver installation when the first headset enters download mode.

Headset Software Update Tool Features

Tool / Field	Function
	Click the Scan button to display all connected devices.
	Click the Update All button to upgrade software on all displayed devices at the same time.
	Click the Select and Save Software button to locate and set software update files and to save the existing software version.
	Click the About button for application information.
Type	Indicates if the device is a headset or charger.
Serial Number	Indicates the serial number of the headset or charger.
Current Firmware	Indicates the version number of the software currently installed on the device.
Update Now	Click the Update Now button associated with a single device to start the software update on that device.
State	Indicates the status of the software update on the device: <ul style="list-style-type: none"> • reconfigure - device initialization is in progress • upload - existing firmware save is in progress • download - software download is in progress • manifest - software update is in progress • finished - software update is complete
Progress (%)	Indicates the percent of the update completed for the device. (When the update is complete, this value will be 100.)

Updating an SRX2 Headset or SRX2 Battery Charger

- The Vocollect Headset Software Update Tool is installed on a computer running a supported operating system.
- The correct Vocollect USB driver is installed on the computer.
- The host computer has available USB ports. For updating multiple headsets and chargers, Vocollect recommends using a USB hub and Micro USB cables.

- The software update file(s) have been copied to the local machine or an accessible network resource.
1. Connect one or more SRX2 headsets and/or a single SRX2 battery charger to the system via USB cables. Ensure that each SRX2 headset has a charged battery inserted prior to running the software update.

A charger update can be performed with batteries mounted on the charger ports and charging.



Figure 100: SRX2 headset port

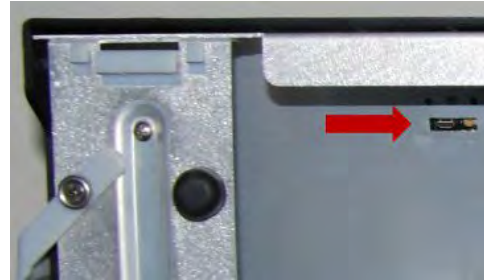


Figure 101: SRX2 charger port (protective plate removed)

2. Launch the tool from the desktop shortcut or installation folder.
3. Click the Scan button to show all connected devices.
4. Click the **Select and Save Software** button and browse to the appropriate software update file (DFU file) in the headset or charger section of the window.
5. If you want to backup the current headset software on the device(s), select the **Save Existing Software** checkbox under the headset section. Click OK.

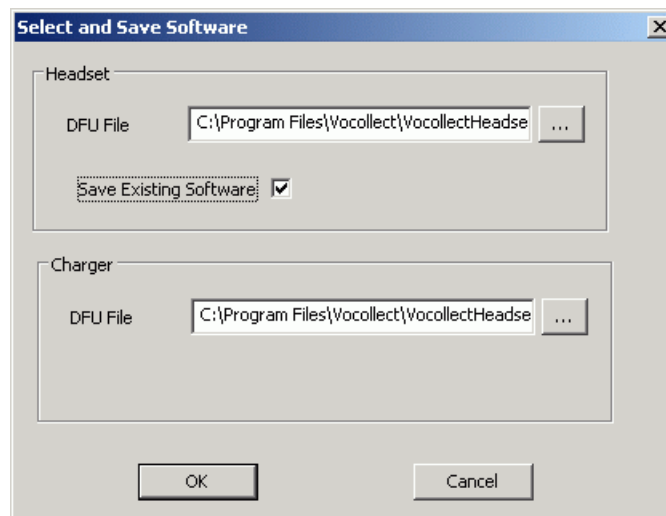



Figure 102: Select and Save Window

- !** **Important:** Vocollect recommends only using files released by and downloaded from Vocollect, its partners, or resellers. If a saved backup file is used to update multiple headsets, the application will display the serial number of the source headset on all headset records and interfere with VoiceConsole headset management.

Please note that the backup process saves existing software to the local application installation folder and may overwrite a current DFU file.

6. Click an update button to start the update to the selected software version.
 - To update a single device, click the **Update Now** button associated with the device. You can set different software files for each device using this method.

- To update all devices listed, click the **Update All** button in the toolbar.


 **Important:** Do not disconnect the headsets or chargers during the update process.

7. Check the update results. When the upgrade completes, the State field shows "finished" and the Progress field shows 100 percent for the devices being updated.
 - a) Check the notifications on the screen for the success or failure status of each device.
 - b) If a device update fails, retry the update by clicking the **Update Now** button associated with that device.
 - c) If necessary, review the log files in the installation folder to investigate any update failures.
8. Disconnect the USB cables and headsets or chargers.

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 Bluetooth addresses or queries one, specific address.

Vocollect wireless headset pairings with Talkman or handheld 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 — the device operator ID is not tied to this pairing. 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 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, sever the connection, and then try to reconnect. The two remain paired throughout this process.


SRX-Series Headset Pairing Methods

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


Auto pairing:

On startup or on removal from a charger, the Talkman device immediately searches for wireless headsets and initiates a pairing. Auto pairing is most effective when users swap headsets and Talkman devices regularly.

 **Note:** 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.

 **Note:** The SRX2 headset always powers up in pairing mode.

Manual pairing: The user determines when to pair a device and headset by pressing buttons on the device. Manual pairing is effective in environments where the same Talkman devices and headsets are always used together.

 **Important:** 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.


 **Note:** The SRX2 headset can perform either manual or auto pairing for its first pairing.

VoiceConsole pairing: The user pairs a specific device to a headset via the VoiceConsole interface.

Screen-Based pairing: See [Pairing a Headset by Screen-Based Pairing](#) for details on pairing handheld devices to a headset.

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.

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.

Auto Pairing with a Talkman Device

Prerequisites:

- The headset is powered off. You can only put an SRX Wireless Headset into low or high power pairing mode from the powered-off state.
- There is no wired headset connected to the Talkman device.
- 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.

 **Important:** An unpaired Talkman 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. Either of these two actions will initiate a scan for headsets by the device.
2. If the LED indicator on the headset is not flashing slowly, then it is not in pairing mode. To enter pairing mode, press and hold the Plus (+) and Minus (-) buttons on the headset control panel for four seconds.

The LED indicator on the headset flutters quickly, pauses, flashes three times quickly, then starts flashing slowly. The headset remains in pairing mode for about one minute then reverts to idle mode.

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 less rapidly. 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 rebooting the headset.

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 with a Talkman Device

Prerequisites:

- The headset is powered off. You can only put an SRX Wireless Headset into low or high power pairing mode from the powered-off state.
- 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. On the headset control panel, press and hold the Plus (+) and Minus (-) buttons for four seconds.

The LED indicator on the headset flutters quickly, pauses, flashes three times quickly, then starts flashing slowly. The headset remains in pairing mode for about one minute then reverts to idle mode.

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 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 less rapidly. 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.


Screen-Based Pairing with a Handheld Device

Screen-based pairing is the preferred method for pairing an SRX-Series headset with a handheld wireless device or PC. This method allows the user to pick a specific headset from a list of available headset Bluetooth addresses displayed on a screen, and eliminates the problem of unwanted cross pairing. Auto and manual pairing processes are not available in screen-based pairing.

Prerequisites:

- The headset is powered off. You can only put an SRX Wireless Headset into low or high power pairing mode from the powered-off state.
- The handheld device is not in a charger, and there is no wired headset connected to it.
- The device is in sleep mode — not in use running an application.
- The device is Bluetooth ready with Bluetooth connection features enabled.

1. On the SRX headset, press and hold the Plus (+) and Minus (-) buttons for four seconds to place the headset in pairing mode.

 **Note:** Some handheld devices may require the headset to be in high power pairing mode in order to be discovered in the device's pairing inquiry. 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.





2. Initiate the pairing inquiry from the master device by pressing or clicking the appropriate button on the screen.
3. Hold the headset and wireless device so they are within six inches of each other but not touching.
4. Select the ID number of the headset you want to use from the **Select SRX Headset** list on the screen.
5. Tap or click the appropriate button on the screen to create the pairing.

The screen briefly displays that the device attempts to connect to the headset. Once the headset connects, three tones play in the headset, the SRX Headset Status displays as Connected. The pairing confirmation step is skipped because the pairing was specified by the user.

6. Press the Play/Pause button to begin working.

Handheld Device Pairing Status Icons

When using the Vocollect Voice application on a handheld wireless device, an icon in the upper right hand corner of the screen indicates the pairing status. Vocollect Voice on a PC displays similar browser-based notifications, but the icons are different.

Icon	Status
	A wireless headset is not paired to the device
	The device is searching for a headset
	The device is paired with a headset but not yet connected
	The device is connected to the headset

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.

Auto Pairing with a 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 Talkman 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 with a 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 about one minute then reverts to idle mode.

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 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 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.


Screen-Based Pairing with a Handheld Device

Screen-based pairing is the preferred method for pairing an SRX-Series headset with a handheld wireless device or PC. This method allows the user to pick a specific headset from a list of available headset Bluetooth addresses displayed on a screen, and eliminates the problem of unwanted cross pairing. Auto and manual pairing processes are not available in screen-based pairing.

Prerequisites:

- The headset is powered off.
- The handheld device is not in a charger, and there is no wired headset connected to it.
- The device is in sleep mode — not in use running an application.
- The device is Bluetooth ready with Bluetooth connection features enabled.

1. Turn on the SRX2 headset. The SRX2 headset starts up in low power pairing mode.

 **Note:** Some handheld devices may require the headset to be in high power pairing mode in order to be discovered in the device's pairing inquiry. To change to high power pairing mode, press and release the Plus (+) and Minus (-) buttons on the headset while it is in low power pairing mode.





2. Initiate the pairing inquiry from the master device by pressing or clicking the appropriate button on the screen.
3. Hold the headset and wireless device so they are within six inches of each other but not touching.
4. Select the ID number of the headset you want to use from the **Select SRX Headset** list on the screen.
5. Tap or click the appropriate button on the screen to create the pairing.

The device briefly displays that the device attempts to connect to the headset . Once the headset connects, three tones play in the headset, the SRX Headset Status displays as Connected. The pairing confirmation step is skipped because the pairing was specified by the user.

6. Press the Play/Pause button to begin working.

Handheld Device Pairing Status Icons

When using the Vocollect Voice application on a handheld wireless device, an icon in the upper right hand corner of the screen indicates the pairing status. Vocollect Voice on a PC displays similar browser-based notifications, but the icons are different.

Icon	Status
	A wireless headset is not paired to the device
	The device is searching for a headset
	The device is paired with a headset but not yet connected
	The device is connected to the headset

Pairing a Headset by VoiceConsole Pairing

The VoiceConsole pairing method should only be used if the device/headset pairing will be performed once and never changed. While manual pairing can also result in this permanent pairing, VoiceConsole eliminates the device inquiry step and begins paging immediately for the Bluetooth address.

Prerequisites:

- The headset is powered off.
- The device is not in a charger, and there is no wired headset connected to it.
- The device is in sleep mode — not in use running an application.
- The device is Bluetooth ready with Bluetooth connection features enabled.

1. In VoiceConsole, click **Devices** and select the device for the pairing.
2. In **Device Actions**, select the actions for pairing to a peripheral, and complete the pairing. See *VoiceConsole Online Help* for detailed instructions.

The pairing can be performed with the device powered off or while the device is running an application. When the device powers up or goes into sleep mode, the paging process begins.

3. Place the headset in pairing mode.
 - On an SRX headset: press and hold the Plus (+) and Minus (-) buttons for four seconds.
 - On an SRX2 headset: press the Power button to turn it on.
4. When the two connect, the headset will play ascending connect tones. The pairing confirmation step is skipped because the pairing was specified by the user.
5. Press the Play/Pause button to begin working.

More about SRX-Series 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-Series headsets support two pairing modes.

- **Low Power Pairing Mode**

Low power pairing mode is the default pairing mode for SRX-Series 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.

Vocollect 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.

See [Configuration Parameters for SRX-Series Headsets](#) for more details.

Placing Headsets in Pairing Modes

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

Breaking a Pairing

There are several methods to break a pairing between an SRX-Series 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.

From VoiceConsole: VoiceConsole displays all Bluetooth pairings including SRX-Series headsets, Talkman devices, scanners, and printers. From the **Edit Device** 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.

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, the pairing breaks only after it times out.

Headset Pairing FAQ

Q: My device accidentally paired with a different headset, what can I do?

A: Perform a manual pairing; it will break the connection and initiate another inquiry. Note that the user should have his or her headset in pairing mode before performing this step so that the device can find the headset when it searches.

Q: The users at my site do not have assigned headsets and devices, so they could get a different headset at every shift. Which pairing process would you recommend?

A: Auto pairing would probably be the easiest, as it will quickly establish connections and, by default, does not maintain those pairings.

Q: The users at my site are assigned their own SRX-Series headsets, so I want to maintain pairings and avoid pairing headsets at the start of every shift. What pairing process would you recommend?

A: You could use manual pairing or auto pairing with the configuration parameter **SrxPersistAutomaticPairing** set to "1" and **SrxClearPairingInCharger** set to "0" in order to maintain pairings through device reboots and recharging.

Q: Our users are spending a lot of time pairing. What methods would you recommend to reduce the time it takes to pair headsets?


A: There are a number of solutions:

- Use a pairing mode that is not as susceptible to cross pairing - avoid using auto pairing.
- Ensure that users are isolated by some distance when the devices perform inquiry searches.
- Use manual pairing, rather than auto pairing, so that the searches are done only at the user's request.
- Use low power pairing.
- If your users do not share headsets and devices, use manual pairing so that the device and headset remain paired.
- If your users share headsets and devices, use auto pairing so that pairing hardware at each shift will complete faster.

Supervisor Audio with SRX-Series Headsets

Supervisor Audio is a feature that will allow a second party to listen to the conversation between a Bluetooth-enabled Talkman device and a user with an SRX-Series headset.

A supervisor wears a wired headset connected to the operator's device, then walks behind the operator who is wearing a wireless headset paired with the same device. The supervisor must keep the operator's device within range of the operator's wireless headset.

 **Note:** This feature is designed to work with Vocollect Talkman devices. It may function properly with other devices depending on the available processing power.

Supervisor Audio offers two listening modes.


- Combined audio - the user's microphone audio and the text-to-speech (TTS) audio are combined and streamed out of the wired audio port
- Device audio only - the TTS audio only is streamed to the second party

Enabling Supervisor Audio

To enable this feature, set the **SrxSupervisorAudioEnable** configuration parameter to the desired mode. See [Configuration Parameters for SRX-Series Headsets](#) for details.

- This feature should ONLY be used for debugging and when a user requires training or assistance. This parameter should be turned off for optimal performance.
- Under normal operations, you cannot have a wired headset attached to the device when using an SRX-Series headset. This parameter overrides this requirement when enabled.
- To avoid disconnecting the wireless headset, pair and connect the Talkman device to the headset first, then connect a wired headset.

Configuration Parameters for SRX-Series Headsets

Parameter	Supported Devices	Description	Values & Setting Location
Bluetooth_IsEnabled	A500, T5-Series	Determines whether or not the Bluetooth portion of the radio is receiving power. When the value for this setting is set to false, the Bluetooth portion of the radio receives no power, and no other Bluetooth parameters are active.	True False (default) Set in VoiceConsole > Device Profile or Edit Device
SrxAutoPairEnable	A500, T5-Series	Enables automatic pairing mode on SRX-Series headsets. This parameter is not applicable for third-party handheld devices.	0 = disabled 1 = enabled The default setting depends on the version of Vocollect Voice software implemented. If this parameter is set to 1 (enabled), the setting of SrxClearPairingInCharger is ignored Set in task package, operator profile, device profile, or VRG file
SrxClearPairingInCharger	A500, T5-Series, Psion, Intermec	Gives the user the ability to force devices to clear the headset Bluetooth pairing from memory when placed into a charger.  Note: In <i>VoiceCatalyst</i> with SrxClearPairingInCharger not set, the pairing is cleared if SrxAutoPairEnable is set to 1. If SrxClearPairingInCharger is set to 0, it will prevent the pairing from being cleared when the device is placed in a charger.	0 = disabled 1 = enabled If you enable this parameter, the SrxAutoPairEnable must be set to 0 (disabled). Set in VoiceConsole > Device Profile
SrxHeadsetEnable	A500, T5-Series	Enables/disables use of SRX-Series wireless headsets with approved Bluetooth devices.	0 = disabled 1 = enabled (default) Set in VoiceConsole > Device Profile

Parameter	Supported Devices	Description	Values & Setting Location
		Users may prefer to disable headsets when using other Bluetooth peripherals.	
SrxHighPowerPairingDelaySeconds	Psion, Intermec	Specifies how long (in seconds) an operator is required to hold the plus and minus buttons on an SRX headset while in low power pairing mode before entering high power pairing mode. Not used for SRX2 headsets.	1 to 10 seconds (default is 6) Value can be 0 when AutoPair is enabled for headsets. Set in VoiceConsole > Device Profile
SrxPersistAutomaticPairing	A500, T5-Series, Psion, Intermec	Enables a device to remember the last automatically paired headset after it has powered down. Upon powering up, the device attempts to connect to that headset instead of going into pairing mode.  Note: When the device is placed into a charger, the pairing will still clear as in normal functionality. This parameter is ignored if the SrxAutoPairEnable configurable parameter is disabled.	0 = disabled (default for Vocollect Voice versions prior to VoiceCatalyst 1.2) 1 = enabled (default for VoiceCatalyst 1.2 and newer) Set in VoiceConsole > Device Profile
SrxSupervisorAudioEnable	A500, T5-Series	Enables/Disables the ability to listen in on both sides of the SRX Wireless Headset conversation through the use of a remote listening kit or wired headset plugged into the device.  Note: Due to increased bandwidth required by Supervisor Audio mode, headset audio performance may sound degraded while Supervisor Audio is enabled. For optimal performance, be sure the parameter is set to "0" (disabled) during all regular SRX wireless headset use.	0 = disabled (default) 1 = play mixing of TTS and mic data 2 = play the TTS audio only Set in VoiceConsole > Device Profile

Check the documentation for your release of Vocollect Voice software to verify if these settings are supported.

Care and Use of Headsets and Microphones

The headsets and microphones used with the Vocollect 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, Vocollect 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.

Wearing Headsets: General Procedures

This describes the standard procedures for wearing Vocollect headsets. Note that special types of headsets have somewhat different procedures.

i **Tip:**

Always use pads and windscreens with Vocollect headsets to protect the equipment and ensure optimum speech recognition performance.

1. Put the headset on and adjust the ear pad to fit snugly over your ear.
 - For the Hard-Hat Headset, first insert the headset bracket into the left or right slot on the hardhat, then put on the hardhat.

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

! **Important:** Do not swivel the microphone boom by the flexible end. Use the rotating lever on the outside of the earpiece.

3. Make final adjustments with the flexible boom so that the microphone is positioned at the corner of your mouth.

A dot or the word "talk" on the microphone faces your mouth when the microphone is positioned properly.

Make sure that there is a windscreen on the microphone. A windscreen improves performance.

4. Clip the headset wire to collar and belt. Let the wire fall down your back, and clip it to the belt near the device.

If you use a device cover, Vocollect recommends that you clip the bottom clip directly onto the cover.

5. Connect or pair the headset to the device.

Adjusting Headsets for Comfort

Vocollect has designed the SR Series headsets based on data for most head shapes and sizes. Because the headset is the most personal piece of voice equipment and must remain stable while workers perform very physical tasks, users may benefit from these headset adjustment guidelines.

- **Placement of the "T-bar" pad:** The SR-20, SR-21, and SR-30 models have pads called "t-bars" opposite the speaker side of the headset. The t-bar should be positioned on a part of the head with the least amount of muscle.

As an operator speaks, the muscle above the ear flexes. If the t-bar is placed on this muscle, the headset applies pressure to the artery and nerves beneath it and can cause the operator some discomfort. The operator can locate this muscle by moving his or her jaw and feeling the area above the ear for movement. Some operators choose to alternate the headset position on either side of their heads during their shifts.

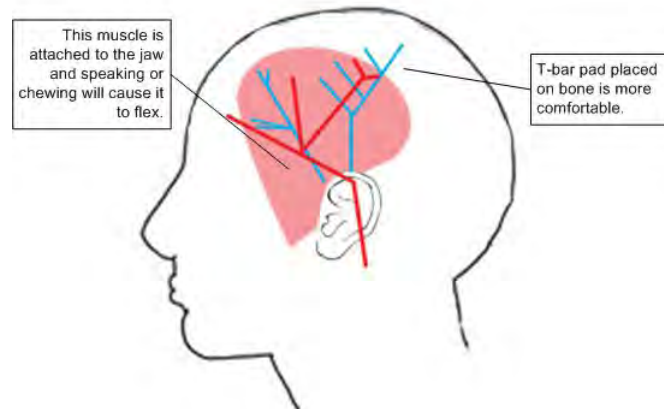


Figure 103: T-bar Pad Placement on the Head

- **Headset pad options:** Vocollect offers a variety of pads to meet the unique requirements of workers and working conditions.

Standard foam pads: provide cushioning and soft surfaces wherever the headset comes in contact with the operator. Available on all headsets.

Leatherette ear pads: have a faux leather exterior that is a more firm and supportive and more moisture resistant than standard foam pads. Offered for all SR-20 through SR-40 models.

Memory foam pads: offer superior cushioning support and comfort. Available in earpads for the SR-20/21 and in t-bar pads for the SR-20/21 and SR-30.

Removing Headsets

1. Disconnect the headset from the device.

! **Important:** Do not pull on the headset's cord.

2. Unclip the headset cord from your shirt or jacket.

3. Carefully remove the headset from your head.

🕒 Note: For the Hard-Hat Headset, remove the hard hat. Press the release clip to remove the headset unit from the hardhat bracket.

Cleaning Windscreens


Vocollect recommends that you change windscreens every 90 days for optimum speech recognition performance.

! **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.

Cleaning Headsets

 **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.

Cleaning the Headband Pad

 **Note:** Vocollect 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.

Appendix A

Compliance

Vocollect® Regulatory Compliance

Statement of Agency Compliance

Vocollect 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. Vocollect 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 Vocollect, Inc. could void the user's authority to operate the equipment.

Federal Communications Commission Compliance

FCC Class B Compliance Statement

Part 15 (b) of the Federal Communications Commission (FCC) Rules

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio

The Talkman® devices are nominally Class B digital devices, pursuant to Part 15 of the FCC Rules.

 **Caution:** Exposure to Radio Frequency Radiation.

- The following devices each contain an internal low-power radio: Talkman® devices and SRX Wireless Headset.
- The radiated output power of Vocollect® devices and headsets is far below the FCC radio frequency exposure limits.
- Nevertheless, Vocollect® devices shall be used in such a manner that the potential for human contact with the radio antenna during normal operation is minimized. The device should not be used if the case is open or if the internal antenna is exposed. When not in use, the Vocollect® devices should be powered off. In addition, the device should be worn in accordance with the instructions for this device.

Vocollect products contain one of the following radio devices. See device label.

Vocollect Device	Card Manufacturer and P/N	FCC ID#	Canadian ID #	Maximum SAR Value (1 gram average)	Maximum SAR Value (10 gram average)
T2x Model: TT-600	Vocollect Wi-Fi 600-2400-032	MQOTT600-50300	2570A-TT60-50300	0.390W/kg	No data available
T2x Model:TT-601_R WF (RoHS Compliant)	Summit SDC-CF10G	MQOTT601-30000	2570A-TT601300	0.531W/kg	No data available
T5 Model:TT-700-100	USI WM-BB-AG-01	MQOTT700-10000	MQOTT700-10000	0.471W/kg	No data available
T5 Model:TT-700-100_R (RoHS Compliant)	Summit SDC-MCF10G Murata LBMA46LBA3	MQOTT700-20000	2570A-TT700200	0.689W/Kg	No data available
SRX Model: HD-800-1	CSR BlueCore 3-Multimedia BC358239A	MQOSRX-10000	2570A-SRX10000	0.056W/Kg	No data available
SRX2 Model: HBT1000-01	CSR BlueCore 5-Multimedia Plug-n-Go	MQO-HBT1000-01	2570A-HBT100001	No data available	No data available
T1 Model: TT-100-1-1	Summit SDC-MCF10G	MQO-TT-100-1-1	2570A-TT10011	0.382W/Kg	0.190W/Kg
A500 Model: TT-800-1-1	USI WM-BA-MR-01	MQO-TT-800-1-1	2570A-TT80011	0.148 W/Kg	0.062 W/Kg
A500 Model: TAP801-01	Lesswire WiBear-SF	MQO-TAP801-01	2570A-TAP80101	0.027 W/Kg	0.016 W/Kg

Canadian Compliance

This Class B digital apparatus complies with Canadian ICES-003. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

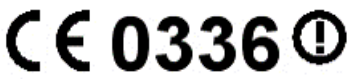
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage.
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE Marking & European Compliance

Products intended for sale within the European Union are marked with the CE Mark, which indicates compliance to applicable Directives and European Normes (EN) as follows. Amendments to these Directives or ENs are included.


Devices - T5, T2x, SRX

	Important Notice: This device is a 2.4 to 2.48 GHz RF device intended for office and light industrial use in all EU and EFTA member states with restrictions in France and Italy.
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Italy Restrictions: If used outside of own premises, general authorization is required.

France Restrictions: Outdoor use is limited to 10mW e.i.r.p. within the band 2454-2483.5

Device - A500 [PART: TT-800; MODEL: TT-800-1-1]

	Important Notice: This device is a wireless terminal that operates in the 2.4GHz and 5GHz ISM frequency bands and is intended for light industrial use in all EU and EFTA member states. See restrictions below.
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Italy Restrictions: If used outside of own premises, general authorization is required.

France Restrictions: Outdoor use is limited to 10mW e.i.r.p. within the band 2454-2483.5

This device must be used with Access Points that have employed and activated a radar detection feature required for European Community operation in the 5 GHz bands. This device will operate under the control of the Access Point in order to avoid operating on a channel occupied by any radar system in the area. The presence of nearby radar operation may result in temporary interruption in communications of this device. The Access Point's radar detection feature will automatically restart operation on a channel free of radar. You may consult with the local technical support staff responsible for the wireless network to ensure the Access Point device(s) are properly configured for European Community operation.

Device - A500 [PART: TT-801; MODEL: TT-800-1-1 and TAP801-01]



Device - T1 [PART: TT-100; MODEL: TT-100-1-1]



Regulatory Approvals for Bluetooth® Radio Devices

Vocollect devices that contain an integrated Bluetooth® module are designed to comply with the most current applicable standards on safe levels of RF energy, developed by the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute Communications Commission (FCC).

The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Vocollect is under license. Other trademarks and trade names are those of their respective owners.



Made in the U.S.A.

Vocollect
Pittsburgh, PA



Declaration of Conformity: RoHS

Directive 2002/95/EC of the European Parliament and Council of 27 January 2003

Restriction of Hazardous Substances (RoHS)

Products Manufactured by Vocollect®

All Vocollect manufactured products shipped by Vocollect as of 1 July 2006 to destinations where the DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 (RoHS) applies are compliant with this directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The parts do not exceed the maximum concentrations by weight in homogenous materials for:

- 0.1% lead (Pb)
- 0.1% Hexavalent chromium (Cr6+)
- 0.1% polybrominated biphenyl (PBB)
- 0.1% polybrominated diphenyl ether (PBDE)
- 0.01% cadmium (Cd)

or qualify for an exemption to the above limits as defined in the Annex of the RoHS Directive.

Third Party products sold by Vocollect

Vocollect has obtained verification from all suppliers of all third party products that versions of those products shipped by Vocollect as of 1 July 2006 to destinations where the DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 (RoHS) applies are compliant with this directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

The parts do not exceed the maximum concentrations by weight in homogenous materials for:

- 0.1% lead (Pb)
- 0.1% Hexavalent chromium (Cr6+)
- 0.1% polybrominated biphenyl (PBB)
- 0.1% polybrominated diphenyl ether (PBDE)
- 0.01% cadmium (Cd)