

Rhein Tech Laboratories, Inc.  
360 Herndon Parkway  
Suite 1400  
Herndon, VA 20170  
<http://www.rheintech.com>

Client: Vocollect, Inc.  
Model #: TT-100-1-1  
Standards: FCC 15.247 & RSS-210  
ID's: MQO-TT-100-1-1/2570A-TT10011  
Report #: 2010100

## **Appendix J: Manual**

Please refer to the following pages.

# Chapter

# 1

## Talkman® Devices

### Topics:

- *T5 Series Specifications: Talkman T5 and Talkman T5m*
- *T2 Series Specifications: Talkman T2x and Talkman T2*
- *T1 Specifications: Talkman T1*
- *Loading an Operator's Templates onto a Device*
- *Charging a T5 Battery in a Device*
- *Charging a T2 Series Device*
- *Charging a T1 Battery in a Device*
- *Turning a Talkman Wearable Computer On*
- *Turning a Talkman Wearable Computer Off*
- *Adjusting the Voice's Pitch*
- *Adjusting the Voice's Volume Using Voice*
- *Adjusting the Voice's Speed*
- *Changing the Speaker's Gender*
- *Repeating the Current Prompt*
- *Repeat the Previous Prompt, Your Last Response, and the Current Prompt*
- *Erase Your Current Response and Repeat the Current Prompt*
- *Pairing a T5 Wearable Computer and a Bluetooth Device*
- *Part Number Index: Vocollect Wearable Computers*



Figure 1: Talkman T5

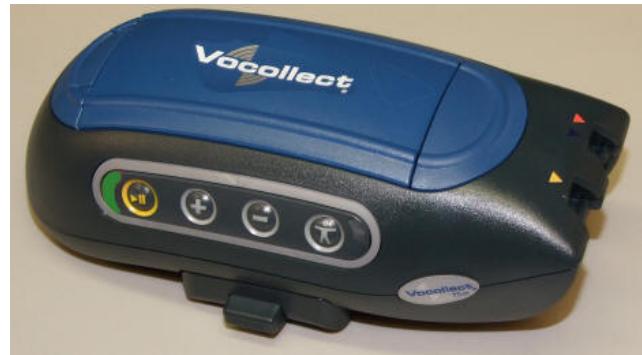


Figure 2: Talkman T5m



Figure 3: Talkman T2x



**Figure 4: Talkman T1**

Talkman devices are voice-directed wearable computers. The Talkman T1 has been specifically designed for light-duty, light-industrial environments. Operators listen to instructions to perform tasks such as warehouse order picking and factory floor inspection, and then speak simple phrases to enter data. Talkman T1 device is a lighter, lower-cost alternative to the T2- and T5-series wearable computers. It is intended for work in areas where you don't require an extremely rugged device.

Talkman T5-series and T2-series devices attach to a customized belt or shoulder harness equipped with a specially designed clip. Talkman T1 devices are inserted into a customized holster with belt clip. This leaves the operator's hands free to inspect items, pick product, or repair defects. A 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.

A Talkman T5e Mobile Computer, External Antenna is a T5 device with a battery adapter 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 T5 device and connected to the vehicle's power source.

- Talkman wearable computers 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.
- 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 wearable computer's buttons on the top (T5-series and T2-series) or facing front (T1) and its connectors toward the operator's back (T5-series and 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.
- When the Talkman is not in use, it should be placed properly into a charger.
- A "Proper Use and Care" document has been provided with your order which contains important handling instructions for the T1's headset, the SL-4. If you do not have this document, users should contact their Vocollect Regional

Sales Manager Representative or Vocollect Reseller for additional copies of this important document.

- Use an isopropyl alcohol (isopropanol) swab or soft cloth dampened with isopropyl alcohol to clean metal connection points. If dirt or residue cannot be removed with the alcohol swab or cloth, use a soft, non-abrasive rubber eraser to clean metal connection points. You also can 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.

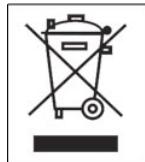
 **Important:**

- These instructions are for the T2- and T5-series devices only.
- Use only isopropyl alcohol. Do not use any other cleaning solvent.
- If using an eraser, it 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 connectors.

## T5 Series Specifications: Talkman T5 and Talkman T5m

---

Weight	12.1 ounces (343 g) (with battery)
Length	5.5" (13.97 cm)
Width	2.63" (6.68 cm)
Depth	1.7" (4.3 cm)
I/O Ports	<ul style="list-style-type: none"> <li>Headset port (yellow)</li> <li>Maintenance port with audio out and RS-232 serial support</li> </ul>
Operating Temperature	-29° to 122° F (-33° to 50° C)
Storage Temperature	-30° to 140° F (-34° to 60° C)
Drop Tested	<p>Meets the MIL STD -810F specification for shock and vibration.</p> <p>In addition, the device has been tested to the following specifications:</p> <ul style="list-style-type: none"> <li>25 drops from 5 feet, 10 additional drops from 6 feet onto polished concrete</li> <li>10 drops at varying angles from 5 feet at -20° F (-29° C) onto polished concrete</li> </ul>
Humidity	100% condensing
Enclosure Rating	IP67



## T2 Series Specifications: Talkman T2x and Talkman T2

---

Weight	16 ounces (with standard battery)
Length	6.5" (16.5 cm)
Width	3.38" (8.5 cm)
Depth	1.5" (4 cm)
I/O Ports	<ul style="list-style-type: none"> <li>Headset port (yellow)</li> <li>Maintenance port with audio out and RS-232 serial support (red)</li> <li>Bar code port with RS-232 decoded bar code support (blue)</li> </ul>
Operating Temperature	-29° to 122° F (-34° to 50° C)
Storage Temperature	-30° to 140° F (-34° to 60° C)

Drop Tested	Meets the MIL STD -810F specification for shock and vibration. In addition, the device has been tested to the following specifications: <ul style="list-style-type: none"> <li>• 25 drops from 5 feet, 10 additional drops from 6 feet onto polished concrete</li> <li>• 10 drops at varying angles from 5 feet at -20° F (-29° C) onto polished concrete</li> </ul>
Humidity	100% condensing
Enclosure Rating	IP67



## T1 Specifications: Talkman T1

Weight	5.3 ounces (150 g) (with battery)	
Length	100 mm	
Width	51.5 mm	
Depth	24 mm	
Operating Temperature	-1° to 50° C (30° to 122° F)	
Storage Temperature	-40° to 70° C (-40° to 158° F)	
Drop Tested	The device is not designed to be repeatedly dropped. The device has been tested to the following specifications: <ul style="list-style-type: none"> <li>• 18 drops from 4 feet</li> </ul>	
Humidity	5 to 95% non-condensing	
Enclosure Rating	IP54	

## Loading an Operator's Templates onto a Device

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 (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 6, choose the "All Operators" team. When selecting a team in step 6, 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.

## Charging a T5 Battery in a Device

---

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



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

## Charging a T2 Series Device

---

1. Make sure the charger is powered. The charger's orange power light (LED indicator) is lit when the charger is powered.
2. Sign off of the device if necessary.
3. Press and hold the yellow play/pause button until the LED indicator turns solid red and then turns off.
4. Remove the device from the belt clip.
5. Disconnect any other peripherals. If the device is in a cover, remove the cover.
6. Insert the device into one of the device charger slots with the button controls of the device to the top and facing toward the left.



**Figure 5: Inserting a T2 Series Device Into a Charger**

7. After the wearable computer has been placed into the charger, make sure that the LED indicator on the wearable computer turns on and begins to blink green.
  - a) If the LED does not turn on after 30 seconds, remove the wearable computer from the charger slot and then place it into the slot again.
  - b) If the LED indicator still does not turn on, try another charger slot.

## Charging a T1 Battery in a Device

---

1. Remove the wearable computer from the holster.
2. Disconnect the headset from the wearable computer.
3. Insert the wearable computer into an open slot on the charger.
4. After the wearable computer has been placed into the charger, make sure that the LED indicator on the wearable computer turns on and is green.
  - a) If the LED does not turn on after 30 seconds, remove the wearable computer from the charger slot and then place it into the slot again.
  - b) If the LED indicator still does not turn on, try another charger slot.



**Caution:** Do not attempt to place the device into the charger unless you have first disconnected the headset.

## Turning a Talkman Wearable Computer On

---

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

1. Press the Play/Pause button on the wearable computer.  
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 (T5-series and T2-series) or The LED indicator turns solid green (T1).

2. The wearable computer 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 Wearable Computer Off

---

Press and hold the Play/Pause button on the device until the LED indicator turns red.

After a few seconds, it 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 (T5-series and T2-series), unless it has been blinking red for several minutes. If a wearable computer 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 a Wearable Computer

You can use a button control or forced reset to force a Talkman wearable computer to power off. In some circumstances, the device powers off automatically. You can then reboot the device.

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

This is the commonly used method of powering off. Press and hold the **Play/Pause** button for several seconds. The wearable computer's LED indicator turns red, and the device stores any data that has not been transmitted. The device says, "Powering off" when the process is complete, and the LED indicator turns off.

### Powering Off Due to Inactivity

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

### Booting a Wearable Computer After Powering Off

If a wearable computer 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 wearable computer 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 wearable computer without properly powering it off first.



**Caution:** Perform a forced reset only as a last resort. If you reboot a wearable computer in this manner:

- the contents of its memory, including any data collected, will be lost

- the wearable computer starts over at the beginning of the task
- if you are in the process of retraining vocabulary, the wearable computer 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 wearable computer 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.

## Adjusting the Voice's Pitch

---

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (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 Voice's Volume Using Voice

---

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (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 Voice's Volume Using the Device Buttons

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (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 Voice's Speed

---

Make sure the device is on or sleeping. The LED indicator should be either solid green or blinking green (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 (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.

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

## Repeating the Current Prompt

---

- Say "Talkman continue."

The device repeats the current prompt.

## Repeat the Previous Prompt, Your Last Response, and the Current Prompt

---

 **Note:** As of VoiceClient 3.4, this feature is disabled by default.

1. Say "Talkman repeat."

The device repeats the previous prompt, repeats what you said in response to that prompt, and then repeats the current prompt.

2. Respond to the current prompt.

## Erase Your Current Response and Repeat the Current Prompt

---

Say "Talkman backup" or "Say again."

The device erases any response given to the current prompt and then repeats the prompt again.

 **Note:**

- If you say "Talkman back up" more than once, the wearable computer continues to back up to previous prompts until it reaches a point where it cannot back up anymore (such as a point where data has already been transmitted to the host computer).
- If you say "Say again" more than once, the device continues to repeat the last thing it said (that is, the current prompt) again and again. It will not back up any further than the previous prompt.

## Pairing a T5 Wearable Computer and a Bluetooth® Device

---

 **Note:** Currently, you can associate one printer and/or one bar code reader to the same Talkman T5. You cannot associate multiple printers or bar code readers to a single wearable computer.

### Pairing a T5 With the Metrologic MS9535: T5 Is the Initiator

1. In VoiceConsole, follow the instructions for creating a pairing and setting the bar code reader as the acceptor. See VoiceConsole's Help for details.
2. Scan the Code 128 bar code (3000CA7000000). See the documentation that came with the Metrologic 9535 for details.
3. Place the T5 and bar code reader close together. The T5 associates with the bar code reader. A low-tone/high-tone beep from the bar code reader indicates a successful association.

 **Note:** If a bar code reader goes out of communication range with the T5, it may un-pair from the T5 device. You will hear a high-tone/low-tone beep. Move the bar code reader closer to the T5 to reassociate the bar code reader with the T5. You will hear a low-tone/high-tone beep when they pair.

## Pairing a T5 With the Metrologic MS9535: T5 Is the Acceptor

The Talkman T5 must be configured in VoiceConsole to listen for incoming connections before proceeding with these instructions. See the VoiceConsole online help for details.

 **Note:** Do not attempt to pair the Metrologic scanner until the T5 is powered off.

 **Important:** Only one scanner should be configured to communicate with a T5's Bluetooth address at any one time. If you change the bar code reader to which the wearable computer has been paired, you must clear the Bluetooth service in the old bar code reader. Scan the Provide Bluetooth Service bar code (3000CA7000000). See the documentation that came with the Metrologic scanner for details.

1. With the Metrologic scanner, scan the Provide Bluetooth Service bar code (3000CA7000000). See the documentation that came with the Metrologic scanner for details.
2. Power off the T5 completely and then power it back on.
3. Place the T5 into sleep mode or wait for it to enter sleep mode.  
The green LED on the wearable computer blinks green.
4. Wait for 30 seconds.
5. Scan the Get Bluetooth Address bar code (3000CA7FFFFFFF) from the Metrologic user's guide.
6. Scan the bar code on the T5. This bar code contains the T5's Bluetooth address.  
You will hear a quick, three-beep confirmation from the bar code reader, followed by a low-tone/high-tone beep indicating success.

## Pairing a T5 Series Device with Zebra QL™ Series Printers

- In VoiceConsole, follow the instructions for creating a pairing and setting the bar code reader as the acceptor. See VoiceConsole's Help for details.
- Create the pairing in VoiceConsole.

## Part Number Index: Vocollect Wearable Computers

Part Numbers for ordering Vocollect Talkman Wearable Computers

Wearable Computer	Vocollect Model Number	Vocollect Part Number
Talkman T5m	TT-700-100-M	TT-700-100-M
Talkman T5	TT-700-100 TT-700-100_R WF TT-700-100_RG WF	TT-700
Talkman T2x	TT-601-XXXXX TT-601_R WF TT-601_RG WF	TT-601
Talkman T1	TT-100-1-1	TT-100

## **Patent and Intellectual property**

Vocollect products are protected by one or more of the following:

- 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

# 3

## Batteries

### Topics:

- [\*T5 High-Performance Batteries Specifications\*](#)
- [\*T2 Series High Capacity Battery Specifications\*](#)
- [\*T1 Batteries Specifications\*](#)
- [\*Charging a T5 Battery\*](#)
- [\*Charging a T1 Battery in a T1 10-Bay Combination Charger\*](#)
- [\*Charging a T1 Battery with a T1 Single Charger Cable\*](#)
- [\*Removing a T2 or T5 Series Device From a Charger\*](#)
- [\*Removing a T1 Device From a T1 5-Bay Charger\*](#)
- [\*Disconnecting a T1 Device from a T1 Single Charger Cable\*](#)
- [\*Inserting a Battery into a Talkman T5-Series or T2-Series Device\*](#)
- [\*Inserting a Battery into a Talkman T1 Device\*](#)
- [\*Removing a Battery from a Talkman T5-Series or T2-Series Device\*](#)
- [\*Removing a Battery from a Talkman T1 Device\*](#)
- [\*Charging SRX Wireless Headset Batteries\*](#)
- [\*Inserting a Battery into the SRX Wireless Headset\*](#)
- [\*Removing a Battery from an SRX Wireless Headset\*](#)
- [\*Battery Warm-Up Time\*](#)
- [\*Part Number Index: Batteries\*](#)



**Figure 23: Talkman T5 Battery**

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

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



**Figure 24: Talkman T2 Series Battery**

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



**Figure 25: 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.

### **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.
- Do not short-circuit the battery or allow metallic or conduction objects to contact both battery devices simultaneously.
- Do not short-circuit a battery or allow metallic or conduction objects to contact both battery devices 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.
- 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.
- Improper battery use may result in a fire, explosion or other hazard.
- 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.

 **Important:**

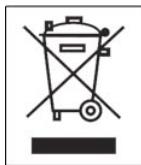
- In the event of a battery leak, do not allow the liquid to come in contact with skin or eyes. If contact is made, wash the affected area with large amounts of water and seek medical advice.
- Seek medical advice immediately if a battery is swallowed.
- If at any time you witness a battery starting 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.

 **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.



## T5 High-Performance Batteries Specifications

---

### Electrical Specifications

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

### Mechanical and Environmental Specifications

- Drop-test specifications
  - The high capacity battery meets the MIL STD 810F specification for shock and transient drop criteria.
  - The drop-test failure criteria consists of the following:
    - A split or separation of the ultrasonic weld joint greater than one linear inch
    - Inability to meet open circuit voltage, serial number input, thermistor output and charge tests
    - Minor cosmetic damage to the battery, such as scratches and dents, is acceptable.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Temperature: -40°C to 55°C (-40°F to 131°F)

Humidity: 95% non-condensing

Rain/dust: IP67

- The pin out from left to right:
  - Battery (+)
  - Clock
  - Data
  - Battery (—)

### Battery Notifications

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

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



## T2 Series High Capacity Battery Specifications

---

### Electrical Specifications

- Cells: The high capacity battery pack uses four lithium ion cells.
  - Nominal voltage = 7.2V
  - Capacity = 3000mAhr or greater
- Protection circuit characteristics: The pack contains a protection circuit that prevents over and under voltage conditions on the cells and protects the pack from damage as a result of a short circuit between the positive and negative terminals of the battery.
- Thermistor: The battery pack contains a negative temperature coefficient thermistor. The charger uses the voltage drop across the thermistor to determine that the battery pack is within the proper charging temperature limits.
- Battery ID: The battery pack contains a Dallas Semiconductor DS2401 serial ID chip. In future enhancements to both the device and the device software, this chip will be used to provide data about features such as battery life, capacity monitoring and asset tracking.
- Battery Charging: The battery pack must only be charged in a Vocollect designated charger.

### Mechanical and Environmental Specifications

- Drop-test specifications
  - The high capacity battery meets the MIL STD 810F specification for shock and transient drop criteria.
  - The drop-test failure criteria consists of the following:
    - A split or separation of the ultrasonic weld joint greater than one linear inch
    - Inability to meet open circuit voltage, serial number input, thermistor output and charge tests
    - Minor cosmetic damage to the battery, such as scratches and dents, is acceptable.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust.
- The battery functions properly in the following conditions:
 

Temperature: -4°F to 122°F  
 Humidity: 95% non-condensing  
 Rain/dust: IP67
- The pin out from left to right (when looking at the contacts with the battery's label facing down) is as follows:
  - Battery +
  - Thermistor
  - ID Data
  - Battery -



## T1 Batteries Specifications

---

### Electrical Specifications

- Cells: The battery pack uses one lithium ion cells.
  - Nominal voltage = 3.7V
  - Capacity = 2000mAhr
- 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.

### Mechanical and Environmental Specifications

- Drop-test specifications
  - The drop-test failure criteria consists of the following:
    - A split or separation of the ultrasonic weld joint greater than one linear inch
    - Inability to meet open circuit voltage, serial number input, thermistor output and charge tests
    - Minor cosmetic damage to the battery, such as scratches and dents, is acceptable.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Temperature: -40°C to 55°C (-40°F to 131°F)

Humidity: 95% non-condensing

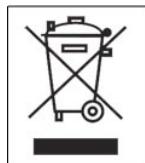
Rain/dust: IP54

- The pin out from left to right:
  - Battery (+)
  - Temp
  - Battery (—)

### Battery Notifications

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

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



## Charging a T5 Battery

---

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



**Figure 26: Inserting a Battery Into the Charger**

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

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

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

---

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

## Charging a T1 Battery with a T1 Single Charger Cable

---

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

## Removing a T2 or T5 Series Device From a Charger

---

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

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

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



**Figure 27: Removing a Device from a Charger**

## Removing a T1 Device From a T1 5-Bay Charger

---

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

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

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

## Disconnecting a T1 Device from a T1 Single Charger Cable

---

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

 **Important:** If a device's LED continuously displays red, contact your system administrator.

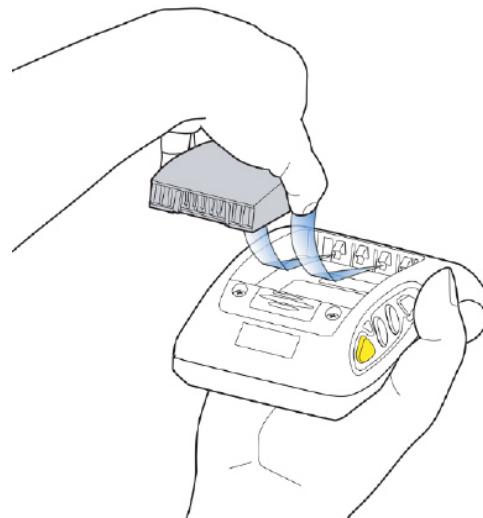
1. Unplug the charger from the electrical outlet.
2. Gently remove it from the T1 device by squeezing the sides of the I/O connector on the cable. Do not pull the cable wire.

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

---

Make sure the battery to be inserted is fully charged.

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



**Figure 28: Properly Inserting a Battery**

4. Push the back of the battery into place.

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

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

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

## Inserting a Battery into a Talkman T1 Device

---

Make sure the battery to be inserted is fully charged.

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

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

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

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

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

---

Make sure the Talkman wearable computer is off.

 **Caution:** Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.

1. Hold the wearable computer in one hand with the battery compartment facing toward you.
2. Press the battery release button all the way down until the top of the battery pops up from the battery compartment.



**Figure 29: Removing the Battery From a Device**

3. Lift the battery out of the compartment.

## Removing a Battery from a Talkman T1 Device

---

Make sure the Talkman wearable computer is off.

 **Caution:** Do not remove the battery until the LED indicator is off. If you remove the battery when the device is on or sleeping, any data collected could be lost.

1. Hold the wearable computer in one hand with the battery compartment facing toward you.
2. Push the battery release button up and pull the battery out.

## 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.

If the battery was being used at...	It will take approximately this amount of time to warm up...	
-4°C (24.8°F)	6 minutes	
-10°C (14.0°F)	10 minutes	

If the battery was being used at...	It will take approximately this amount of time to warm up...	
-20°C (-4°F)	22 minutes	
-30°C (-22°F)	30 minutes	

## Part Number Index: Batteries

Part Numbers for ordering Vocollect Talkman Accessories

Battery	Vocollect Part Number
T5 High-Performance Battery	BT-700 (For use with T5 Series)
T2 Series Standard Battery	BT-601 (For use with T2 Series)
T2 Series High-Capacity Battery	BT-602 (For use with T2 Series)
T1 Standard Battery	BT-101 (For use with T1 devices)
SRX Headset High-Performance Battery	BT-800 (For use with SRX Headsets)

### Patent and Intellectual property

Vocollect products are protected by one or more of the following:

- 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

---

# Appendix

# A

---

## Compliance

---

### Topics:

- [\*Vocollect Regulatory Compliance\*](#)
- [\*Declaration of Conformity: RoHS\*](#)
- [\*Vocollect SRX Wireless Headset Declaration of Conformity\*](#)
- [\*Vocollect T5 and T5m Wearable Computers Declaration of Conformity\*](#)
- [\*Vocollect T2x Wearable Computer Declaration of Conformity\*](#)
- [\*Vocollect T1 Wearable Computers Declaration of Conformity\*](#)

## 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	Vocollect Talkman FCC ID#	Vocollect Talkman Canadian ID #	Maximum SAR Value
T2x Model: TT-600	Vocollect Wi-Fi 600-2400-032	MQOTT600-50300	2570A-TT60-50300	0.390W/kg
T2x	Summit SDC-CF10G	MQOTT601-30000	2570A-TT601300	0.531W/kg

Vocollect Device	Card Manufacturer and P/N	Vocollect Talkman FCC ID#	Vocollect Talkman Canadian ID #	Maximum SAR Value
Model:TT-601_R WF (RoHS Compliant)				
T5 Model:TT-700-100	USI WM-BB-AG-01	MQOTT700-10000	MQOTT700-10000	0.471W/kg
T5 Model:TT-700-100_R (RoHS Compliant)	Summit SDC-MCF10G Murata LBMA46LBA3	MQOTT700-20000	2570A-TT700200	0.689W/Kg
SRX	CSR BlueCore 3-Multimedia BC358239A	MQOSRX-10000	2570A-SRX10000	0.056W/Kg
T1	Summit SDC-MCF10G	MQO-TT-100-1-1	2570A-TT10011	0.382W/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.

### 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

<b>CE 0336!</b>	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.
-----------------	---

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 - T1



### Regulatory Approvals for Bluetooth® Radio Devices

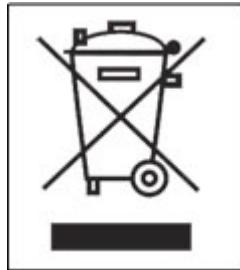
Vocollect devices that contain an integrated Bluetooth® module are designed to comply with the most current applicable standards on safe levels of RF energy, developed by the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute Communications Commission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

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



## Vocollect® SRX Wireless Headset Declaration of Conformity

We the undersigned declare that the equipment has been designed to comply with the relevant sections of the R&TTE Directive 1999/5/EC, Low Voltage Directive 2006/95/EEC & EMC Directive 89/336/EEC.

Manufacturer's Name:	Vocollect, Inc.
Manufacturer's Address:	703 Rodi Rd. Pittsburgh, PA 15235
Country	USA

Certify and declare under our sole responsibility that the following equipment:

Product description / Intended use:	Vocollect® SRX Headset and battery chargers. Products are used in voice directed wireless Bluetooth applications operating in the 2.4Ghz frequency band.
EU / EFTA Member states intended for use:	Approved for use in all EU and EFTA member states.  👉 <b>Note:</b> New members may be omitted or subject to change. For an up to date official list please contact the EU government offices.
Other Country approvals:	US, Canada
Members with Restrictive use:	
Manufacturer:	Vocollect, Inc. and Intelligent Technologies, Inc.
Brand:	Vocollect
Type:	SRX Headset and Battery Chargers
Model(s):	HD-800-1, CM 800-1, CM 801-1

Is tested and conforms with the essential requirements for the protection of health and safety of the user and any person and Electromagnetic Compatibility, as included in the following standards.

Standards to which the Conformity is declared:	For the SRX Headset: EN 300 328 – Electromagnetic Compatibility and Radio Spectrum Matters EN 301 489 -1, -17 ERM EMC General & Immunity EN 60950:2001 - Safety  For the battery chargers:
--	---

EN 60950:2001 - Safety Emissions: EN 55022, EN61000-3-2, EN 61000-3-3 Immunity: EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11
--

Technical construction file is kept at the following address:

Vocollect, Inc 703 Rodi Road Pittsburgh, Pa 15235 U.S.A. Phone: 412-829-8145 Fax: 412-829-0972	Contact: Rakesh Thapar, Vice President, Engineering	<b>CE 0336 !</b>
--	---	------------------

Document-1000280 revision A

Copyright ©1998-2008 Vocollect, Inc. All Rights Reserved

## **Vocollect® T5 and T5m Wearable Computers Declaration of Conformity**

We the undersigned declare that the equipment has been designed to comply with the relevant sections of the R&TTE Directive 1999/5/EC, Low Voltage Directive 2006/95/EEC & EMC Directive 89/336/EEC.

Manufacturer's Name:	Vocollect, Inc.
Manufacturer's Address:	703 Rodi Rd. Pittsburgh, PA 15235
Country	USA

Certify and declare under our sole responsibility that the following equipment:

Product description / Intended use:	Vocollect® T5 devices and battery chargers. Products are used in voice directed wireless data acquisition devices operating in the 2.4Ghz frequency band.
EU / EFTA Member states intended for use:	Approved for use in all EU and EFTA member states.  👉 <b>Note:</b> New members may be omitted or subject to change. For an up to date official list please contact the EU government offices.
Other Country approvals:	US, Canada
Members with Restrictive use:	France, Italy - See User Documentation
Manufacturer:	Vocollect, Inc. and Intelligent Technologies, Inc.
Brand:	Vocollect
Type:	T5 Terminals and Battery Chargers
Model(s):	TT-700-100_R WF, TT-700-100_RG WF, CM 700-1, CM 700-2

Standards to which the Conformity is declared:	<p>For the Terminals:</p> <p>EN 300 328 EMC Radio Spectrum Matters  EN 301 489 -1, -17 ERM EMC General &amp; Immunity  EN 60950:2001 - Safety</p> <p>For the battery chargers:</p> <p>EN 60950:2001 - Safety  Emissions: EN 55022, EN 61000-3-2, EN 61000-3-3  Immunity: EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11</p>
--	--

Technical construction file is kept at the following address:

Vocollect, Inc 703 Rodi Road Pittsburgh, Pa 15235 U.S.A. Phone: 412-829-8145 Fax: 412-829-0972	Contact: Rakesh Thapar, Vice President, Engineering	<b>CE 0336 !</b>
--	---	------------------

Document - 1000474

Copyright ©1998-2008 Vocollect, Inc. All Rights Reserved

## Vocollect® T2x Wearable Computer Declaration of Conformity

We the undersigned declare that the equipment has been designed to comply with the relevant sections of the R&TTE Directive 1999/5/EC, Low Voltage Directive 2006/95/EEC & EMC Directive 89/336/EEC.

Manufacturer's Name:	Vocollect, Inc.
Manufacturer's Address:	703 Rodi Rd. Pittsburgh, PA 15235
Country	USA

Certify and declare under our sole responsibility that the following equipment:

Product description / Intended use:	Vocollect® T2 Series devices, device charger and battery chargers. Products are used in voice directed data acquisition devices operating in the 2.4Ghz ISM frequency band.
EU / EFTA Member states intended for use:	Approved for use in all EU and EFTA member states.  ☞ <b>Note:</b> New members may be omitted or subject to change. For an up to date official list please contact the EU government offices.
Other Country approvals:	US, Canada

Members with Restrictive use:	France, Italy - See User Documentation
Manufacturer:	Vocollect, Inc. & Global Components Corporation
Brand:	Vocollect
Type:	T2 device and Battery Charger
Model(s):	TT-601_R WF, TT-601_RG WF, CM 601, CM 602, and CM 603
Standards to which the Conformity is declared:	<p>For the devices:</p> <p>EN 300 328 EMC Radio Spectrum Matters  EN 301 489 -1, -17 ERM EMC General &amp; Immunity  EN 60950:2001 - Safety</p> <p>For the battery chargers:</p> <p>EN 60950:2001 - Safety  Emissions: EN 55022, EN 61000-3-2, EN 61000-3-3  Immunity: EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11</p>

Technical construction file is kept at the following address:

Vocollect, Inc. 703 Rodi Road Pittsburgh, Pa 15235 U.S.A. Phone: 412-829-8145 Fax: 412-829-0972	Contact: Rakesh Thapar, Vice President, Engineering	<b>CE 0336 !</b>
---	---	------------------

Document - 1000474

Copyright ©1998-2008 Vocollect, Inc. All Rights Reserved

## Vocollect® T1 Wearable Computers Declaration of Conformity

We the undersigned declare that the equipment has been designed to comply with the relevant sections of the R&TTE Directive 1999/5/EC, Low Voltage Directive 2006/95/EEC & EMC Directive 89/336/EEC.

Manufacturer's Name:	Vocollect, Inc.
Manufacturer's Address:	703 Rodi Rd. Pittsburgh, PA 15235
Country	USA

Certify and declare under our sole responsibility that the following equipment:

Product description / Intended use:	Vocollect® T1 terminals, terminal and battery chargers Products are used in voice directed data acquisition. The terminals operate in the 2.4Ghz ISM frequency band.
-------------------------------------	--

EU / EFTA Member states intended for use:	Approved for use in all EU and EFTA member states.  <b>Note:</b> New members may be omitted or subject to change. For an up to date official list please contact the EU government offices.
Other Country approvals:	US, Canada
Members with Restrictive use:	France, Italy - See User Documentation
Manufacturer:	Vocollect, Inc.
Brand:	Vocollect
Type:	T1 Terminals and Battery Charger
Model(s):	TT-100-1-1, CM-100-1, CM-103-1
Standards to which the Conformity is declared:	<p>For the Terminals:</p> <p>EN 300 328 EMC Radio Spectrum Matters  EN 301 489 -1, -17 ERM EMC General &amp; Immunity  EN 60950-1:2006 - Safety</p> <p>For the battery chargers:</p> <p>EN 60950-1:2006 - Safety  Emissions: EN 55022, EN61000-3-2, EN 61000-3-3  Immunity: EN 55024, EN 61000-4-2, EN 61000-4-3,  EN 61000-4-4, EN 61000-4-5, EN 61000-4-6,  EN 61000-4-8, EN 61000-4-11</p>

Technical construction file is kept at the following address:

Vocollect, Inc 703 Rodi Road Pittsburgh, Pa 15235 U.S.A. Phone: 412-829-8145 Fax: 412-829-0972	Contact: Rakesh Thapar Vice President, Engineering	
--	--	---

Document-1002028 revision A

Copyright ©1998-2008 Vocollect, Inc. All Rights Reserved

