



# **Vocollect Talkman A700 Solution Product Guide**

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# Notice

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# Chapter 1

## Introduction

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

This document includes the following information:

- Safety information
- Hardware specifications
- Installation procedures, and basic operating instructions for 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.

## Talkman Devices and Headsets

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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 A700 Product Family, A500, T5-series, and T2-series devices**

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

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

### **Talkman T1**

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


### **Speech Recognition Headsets**

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

Using Vocollect Adaptive Speech Recognition™, 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 device unless it has been properly powered off.
- Talkman devices are designed to be worn on the right side of the body with the device's buttons on the top (T5-series, T2-series, A500, A700-series) or facing front (T1) and its connectors toward the operator's back (A500, T5-series, T2-series, A700-series) or pointed up (T1).
- The Talkman T1 must be holstered with the holster opening facing up. Holstering with the opening facing down or to the side places the unit at risk for dropping.
- Always use pads and windscreens with Vocollect headsets to protect the equipment and ensure optimum speech recognition performance.
- Honeywell recommends changing headset windscreens every 90 days to ensure the best performance.

 **Caution:** Use **only** a solution of 70% isopropyl alcohol and 30% water to clean the hard plastics on equipment. Other products have not been tested and may degrade the equipment.



## General Safety Guidelines

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Follow these guidelines when working with Honeywell electrical equipment:

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

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

### Statement of Agency Compliance

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

## Honeywell Battery Safety

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

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

### **Warning:**

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

### **Caution:**

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

## Handling Used Batteries

- When shipping batteries, place tape or insulating material securely over the battery contacts to avoid accidental contact in transit. Honeywell batteries can be shipped under Special Provision 188 of 49 CFR 172.102 or IATA exception A45.

- Never disassemble a battery.
- Do not leave a battery under strong sunshine, or expose a battery to rain or water.
- Store batteries in a rugged receptacle and cover with a lid.

## Contact Information

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### Documentation Feedback

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

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

### Honeywell Vocollect Reseller Services

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

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Email: [vocollectJapan@honeywell.com](mailto:vocollectJapan@honeywell.com)**Honeywell Vocollect RMA**

To return equipment for repair, contact Honeywell Vocollect RMA to request an RMA number:

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## Patents and Intellectual Property

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

# Chapter 2

## Using the Talkman A700 Device

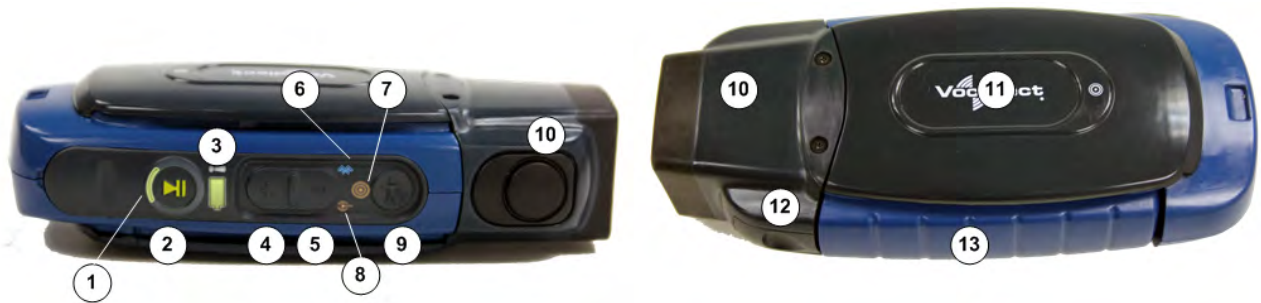


Figure 1: Getting to Know the Vocollect Talkman® A700 Device

- |                           |                                       |                                   |
|---------------------------|---------------------------------------|-----------------------------------|
| 1. Device state indicator | 6. Bluetooth indicator                | 10. End cap: Varies by model      |
| 2. Play/Pause button      | 7. Near Field Communication indicator | 11. TouchConfig/TouchConnect area |
| 3. Battery indicator      | 8. Network connectivity indicator     | 12. Battery release button        |
| 4. Plus button            | 9. Operator button                    | 13. Battery                       |

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

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

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

The Talkman A730 is the device that supports both 1D and 2D barcodes using an imager for short range scanning, up to 75 centimeters/29.53 inches depending on barcode size. The design supports common use cases such as tote induction or capturing the weight of specific products. It supports all of the popular symbologies. See [Talkman A730 Symbologies](#) for a full list.

All three devices have maintenance ports that can be connected to a computer with a standard USB cable. Vocollect also offers a cable with an audio jack that can be used for connecting a listening kit.

## Charging an A700 Device Battery

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Figure 2: Talkman A700 Standard and High Capacity Batteries

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

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

### Charging an A700 Battery in a Device

1. Remove the device from the belt clip.
2. Disconnect any wired peripherals.
3. Insert the device into an open slot on the charger, ensuring that the battery contact side of the device is placed against the battery contact side of the slot.
4. After the device has been placed into the charger, make sure that the device state indicator on the device turns on a solid yellow.
  - a) If the indicator does not turn on after 30 seconds, remove the device from the charger slot and then place it into the slot again.
  - b) If the indicator still does not turn on, try another charger slot.

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

### Charging an A700 Device Battery

**Note:**

- A battery is fully charged and can be removed from the charger when the ring LED indicator light for that port on the charger is green.




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


## Inserting a Battery into a Talkman A700 Device

Make sure the battery to be inserted is fully charged.

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


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

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

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

## Removing a Battery from a Talkman A700 Device

Make sure the Talkman device is off.

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

1. Hold the device in one hand.
2. Press the battery release button all the way down until the top of the battery pops out from the battery compartment.



Figure 3: Removing the Battery From a Device

3. Lift the battery out of the compartment.


## 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

## TouchConfig: Bringing Additional A700 Devices Online

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

 **Note:** TouchConfig uses near field communication (NFC). Data sent through NFC is not encrypted nor does it follow any specific safety protocol. This is because the transfer occurs over such a short range that it is nearly impossible for data to be intercepted.



1. Ensure that all devices are off.
2. On the configured device, press and hold the **Plus (+)** button then press the **Play/Pause** button to put the device into sender mode.  
The ring's small segment will be solid yellow and the NFC indicator will blink yellow.
3. On the unconfigured devices, press and hold the **Minus (-)** button then press the **Play/Pause** button to put the devices into receiver mode.  
The ring's large segment will be solid yellow and the NFC indicator will blink yellow.
4. Turn each of the unconfigured devices so that the sides with the  symbol are facing up.
5. Hold the configured device so that the side of the device that has the  symbol is facing down. Align the raised oval on the device with the raised oval on an unconfigured device. Ensure that the ovals are **fully** aligned, then hold the two devices steadily against each other.



Figure 4: Transferring the Configuration Using TouchConfig

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

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

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

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

## Turning a Talkman Device On

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

1. Press the Play/Pause button on the device.  
The LED indicator differs depending on the device being used.

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

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

## Turning a Talkman Device Off

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

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

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

#### **Caution:**

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

### Powering Off Due to Inactivity

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

### Powering Off Due to Low Battery Levels

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

### Booting a Device After Powering Off

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

- Performs a background noise sample
- Continues operation at the place in the task where you left off
- Transfers any templates to the host that had not been sent prior to powering off
- Transfers any output data records to the host that had not been sent prior to powering off
- Transfers any lookup tables to the device that had not been received from the host prior to powering off

### Forced Reset

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

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

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

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

## About LED Indicators

---

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

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

## A700 Device LED Indicators

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

### Device State Indicator

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



Figure 5: Ring Segments on Device State Indicator

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


Color	Blink Pattern	Device State
Red	Fast blink	Charging fault or in charger or connected to power supply without battery  TouchConfig or TouchConnect not successful

### Battery Charging Indicator

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

### Battery Health Indicator

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

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

### Near Field Communication (NFC) Indicator

Blink Pattern	NFC State
Off	NFC radio is disabled.

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

### Bluetooth Indicator

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

### Network Indicator

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

## 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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).

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

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Each Vocollect Talkman device uses Vocollect Voice software to provide instructions to the operator and prompt him or her 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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).


## 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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).



 **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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).

1. Say "Talkman, louder" to increase the volume or "Talkman, 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.
2. 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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).

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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).

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), solid green (T1), or have a solid green ring segment or a rotating green ring (A700).

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.

## 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
hear the current prompt again	"Say again"
put the device in sleep mode	"Talkman sleep"
wake up the device	"Talkman wake up"
erase the previous response so you can respond to the same prompt again (VoiceClient only)	"Talkman backup"
check the remaining charge on a Talkman A700 battery (VoiceCatalyst 2.0 and newer only)	"Talkman battery status"
hear instructions for your response to the current prompt	"Talkman help"
hear a list of vocabulary words that you can say at the current prompt	"Talkman help"
indicate a problem and send a snapshot of the log file to VoiceConsole (VoiceCatalyst 1.2 and newer only)	"Talkman report problem"

## Options for Hearing Impaired Users

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Vocollect products are designed for persons with average levels of hearing. Operators who use assistive hearing devices may need to consider some adjustments when using Vocollect headsets in a production warehouse environment.

Vocollect recommends experimenting with combinations of several basic changes to Talkman device operation to improve audibility:

- Change language voices using VoiceConsole (see VoiceConsole Online Help)
- 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

Users may find that their assistive devices are passing through additional background noise that makes it difficult to hear the Talkman device prompts. In this case, Vocollect recommends using a cupped headset to help eliminate distracting input from the assistive devices.

If a user continues to have problems hearing the Talkman device after trying these options, Vocollect strongly recommends consulting a medical professional. Hearing loss is a medical condition that requires the attention of a qualified audiologist. The audiologist should be made aware of the options that Vocollect products offer with pitch, volume, and sidetone so that he or she can make appropriate recommendations that may benefit the user without possible side effects. Vocollect Technical Support can talk with the user's audiologist to explain these options and make changes in the Talkman device configuration based on the specific recommendations of the audiologist.

**Caution:** There are a variety of parameters that can further increase output levels of the Talkman device. Vocollect does not recommend changing any of these settings in a way that increases sound output levels without consulting a qualified audiologist. Changing these settings without qualified medical supervision could result in additional hearing damage.

Vocollect products, and their default options, have been measured and qualified to ensure audio safety for common work flows and for the general population. The default audio parameters should not be changed without explicit direction from a qualified audio professional.

The Vocollect publication, *Evaluating Audio Safety in Your Distribution Center*, explains the importance of maintaining audio safety in the work environment. This publication is available to Vocollect partners on <https://www.voiceworld.com>.

## Scanning with the Talkman A730 Device


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

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

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

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

## Installing the USB Driver on Windows XP

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

1. Navigate to the .inf and .cat files in the USB Driver folder on the VoiceConsole software DVD and save both files to your computer.
2. Open Device Manager and locate Talkman USB Serial.
3. Right click it and select **Update Driver**.
4. When prompted with **Can Windows connect to Windows Update to search for software?**, select **No, not at this time**.
5. Select **Install from a list or specific location (advanced)**.
6. Click **Have Disk**. Navigate to the location where you saved the .inf and .cat files.
7. Select the TalkmanUsbSerial.inf file. If there is a driver warning, click **Continue Anyway**.

## Installing the USB Driver on Windows 7 or Vista

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

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

## Collecting Platform Debug Logs from A700 Devices

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

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

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


## Cleaning Procedures for Honeywell Equipment

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

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

- Dirt or corrosion can prevent the proper seating of terminals in chargers and may cause intermittent charging.
- Talkman<sup>®</sup> Connector (TCO) contacts that build up dirt, chemicals, and corrosion may cause intermittent contact, static, and recognition problems.
- Excessive dirt on a keypad membrane can cause the membrane to weaken and tear.

 **Caution:** Use **only** a solution of 70% isopropyl alcohol and water to clean equipment. Other products have not been tested and may degrade the equipment.

### Cleaning Plastics

#### Cleaning Hard Plastics

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

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

#### Cleaning Foam and Pliable Plastics

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

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

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

## **Cleaning Contacts**

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

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

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

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

Never bend or manipulate battery contacts.

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

# Chapter 3

## Chargers

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

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

 **Caution:**

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

 **Note:**


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

### A700 6-Bay Device Charger

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Figure 6: A700 6-Bay Device Charger

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

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

## A700 Battery Charger



Figure 7: A700 12-Bay Battery Charger

## A700 Device Charger and Battery Charger Wall Mount

The A700 charger and the A700 battery charger are ready for mounting on a standard DIN rail without any customer modifications. A DIN rail must be installed on a wall in a suitable location. Vocollect offers a DIN rail suitable for mounting a single charger, but customers may choose to purchase rails from other suppliers as long as the rails meet Vocollect specifications. Consider the following before wall mounting your charger.

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

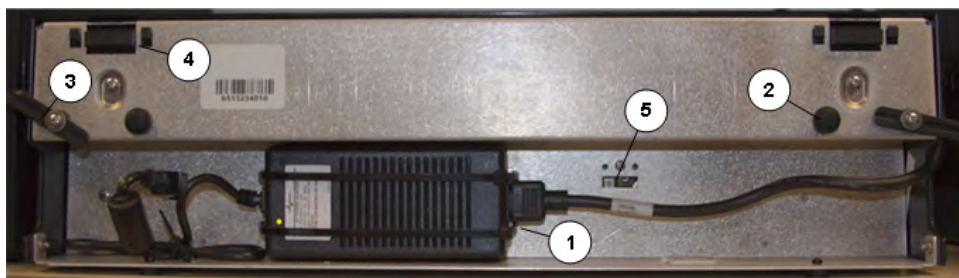


Figure 8: A700 charger - back view

Part Number in Diagram	Description
1	power supply

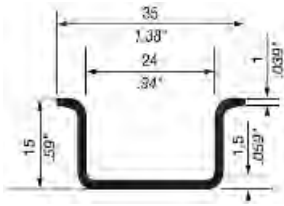



Part Number in Diagram	Description
2	rubber stop for leveling charger against wall
3	locking arm for securing charger to DIN rail
4	mounting hook for hanging charger on DIN rail
5	USB port for charger software upgrades (only on battery charger)

## Mounting the A700 Device or Battery Charger

You will need:

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

Number of chargers on rail	Minimum cut lengths for rail	DIN rail specs	Standard DIN rail
1	550 mm		
2	1101 mm		
3	1652 mm		

- Drill
- Fasteners
- Screw driver

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

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

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

## SRX2 and A700 Battery Charger LED Indicators

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

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

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

### Charger Port Indicators

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

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



Figure 9: Battery Port Indicators

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

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

# Chapter 4

## Accessories

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

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

### Pidion BM-170 Display

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The Pidion BM-170 is a display device that can be used along with a Talkman A500 or Talkman A700 device (VoiceCatalyst only) to run applications where it is more appropriate that voice be supplemented with a display. It has a touchscreen and various buttons and switches:

Control	Location	Action
Rocker switch	Left side	Increases and decreases volume
Large button	Right side	Powers on and off
Small button	Right side	Back
Options menu	Upper left of front	Displays options available
Joypad	Center front	Navigates around screen and lets you select items



Figure 10: Pidion Display Device

## Connecting the Pidion BM-170 Display to a Talkman A500/A700

1. Turn on the Talkman A500 or A700 device.
2. Turn on the display.  
The display will initialize.

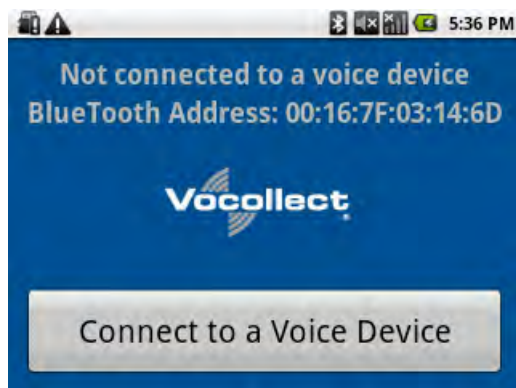


Figure 11: The Initial Screen

3. Press the **Connect to a Voice Device** button to begin connecting the display to your Talkman. A list of nearby devices' serial numbers that can accept a connection are displayed.

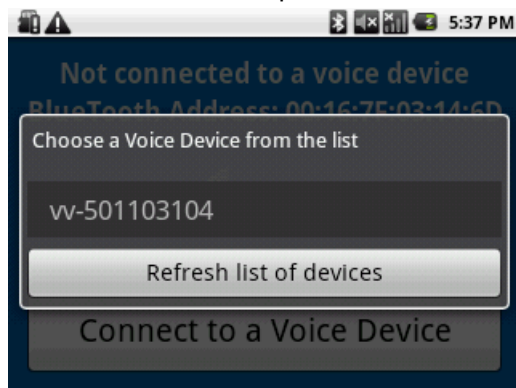


Figure 12: List of Devices

4. Select the serial number of the Talkman to which you want to connect and confirm your selection.

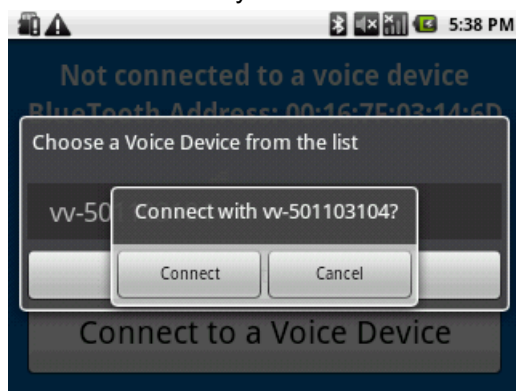


Figure 13: Confirming the Connection

You will be taken back to the main screen, and the display will be connected to the Talkman.

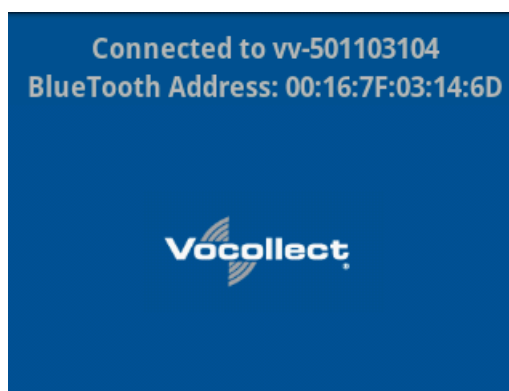


Figure 14: Connected to a Voice Device

Screens relevant to the application loaded onto the voice device will appear once the voice application is running.

## Belts

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

### A700 Belt Specifications

Belt Size	Dimensions
XS	18" - 26" (46cm-66cm)
S	24" - 32" (61cm-81cm)
M	28" - 36" (71cm-91cm)
L	34" - 42" (61cm-107cm)
XL	40" - 48" (102cm-122cm)
XXL	46" - 54" (117cm-137cm)
XXXL	52" - 60" (132cm-152cm)

Belt Part	Specification
Belt material	Nylon
Velcro®	YKK Hook and Loop
Belt fastener	ITW Nexus 127-3200

### Using the A730 Scanning Device Holster

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

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

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



Figure 15: The A730 Scanning Device Holster

## Using the Device Holster

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

**Note:** Vocollect strongly recommends using a Vocollect holster for your device. Placing a device in a pocket or other enclosed space can cause issues with WiFi performance.

1. Attach the holster to the belt.
2. Undo the Velcro strips.
3. Slide the device into the holster, with the buttons facing up.
4. Fasten the Velcro strips.



Figure 16: The A700 Device Holster

## A700 Holster Specifications

Belt material	Nylon
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Belt fastener

Non-replacable

## Vehicle Mounts for Talkman A700

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

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

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



Figure 17: Screw On Mount



Figure 18: Clamp Mount



Figure 19: Claw Mount

## Positioning the Talkman A700 Vehicle Dock

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

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

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

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

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

Quantity	Description
1	Vehicle Mount, Clamp
1	Vehicle Mount, Arm

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

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

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

1. Drill the holes required to secure the base to the vehicle. If using the clamp or claw mount, skip this step.  
**Note:** Apply some lubricant (for example, light oil or anti-seize) to the threads of the clamp mount screws.
2. Screw or clamp a base to the location.
3. Attach the other base to the other end of the arm and tighten once in the desired location by turning the locking lever clockwise.
4. Screw the device holder to the base.
5. Insert a device into the holder.  
To prevent vibration, the arm of the mounting bracket should not touch the stem of the ball of the base. In other words, the arm should not be tilted so far as to have these pieces touching.





# Chapter 5

## Troubleshooting Equipment Problems

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Sometimes you will not see an LED indicator change or hear an error message, but will see some other sign of trouble. Find the description below that most accurately describes what you see. Follow the steps in sequence until the issue is resolved; start with the first option and see if that solves your problem before moving on to the second. If none of the listed steps resolve the problem, contact Vocollect to send the equipment back for repair or to speak with a support representative.

### I Can't Hear Anything Through the Headset

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1. Make sure the device has a fully charged battery.
2. Make sure the headset is properly connected to the device.
3. Try the headset on a device that is not having problems.
4. Try a different headset on the device with the problem.
5. Turn the device off and then back on again.
6. Reboot the device.
7. If you are using an SRX or SRX2 headset, make sure your headset is paired with your device.
8. If the headset is broken, send it back to Vocollect for repair.

### The Scanner will not Scan

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These steps apply to bar code scanners external to the Talkman device and not the integrated scanner in the Talkman A730.

1. Make sure the scanner is on, plugged into the Talkman device properly, and that the battery is charged.
2. Make sure the Talkman device is on, the battery is charged, and that it is running voice process software (task or voice application) that is set up for scanning.
3. Using VoiceConsole, verify that the task is set up to use the port "BT\_SCAN" for its scanning connection in the advanced settings of the task package.
4. Check the Talkman device in VoiceConsole. If the "Peripherals Paired With" status indicates "searching," verify that the correct Bluetooth address was entered. Correct the entry if necessary by following the initial procedure to set up the connection.
5. If the scanner beeps several times after a scan, it is not connected. Verify the connection with the Talkman.
6. If the scanner appears to scan and beeps once (indicating successful scan) but Talkman does not appear to accept input, assure that the task termination characters are the default (CR/LF). If not, the scanner or task may need to be reprogrammed to match.
7. If a scan was attempted while the Talkman was asleep, the Talkman may ignore all subsequent scans. Toggling the Talkman on/off will typically correct this condition.
8. Try connecting the scanner to a different device.
9. If the scanner is damaged, send it back to Honeywell for repair.

## **The Device Beeps Every Few Seconds**

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1. Wait for a few minutes. The voice engine may just be communicating with the host.
2. If the beeping continues beyond a few minutes, see the administrator.
3. The administrator can check device logs in VoiceConsole to attempt to diagnose the problem.

## **The Device Will Not Load a Voice Application**

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1. Try loading the voice application again. See the VoiceConsole online help for instructions.
2. Make sure the device is properly placed in a charger.
3. Check for error messages in VoiceConsole.
4. Make sure you are in radio range of an access point.
5. Make sure the device's ChangeTaskEnabled parameter is set to 1.
6. Reboot the device.
7. Put the device in debug mode to look for a clue to the problem.

## **The Device Will Not Load an Operator Template**

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1. Make sure you are loading the operator properly.
2. Make sure the operator has created a voice template.
3. Make sure you are in radio range.
4. Reboot the device.

## **The Device Does Not Respond to Button Presses**

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1. Make sure the device has a fully charged battery.
2. Reboot the device.
3. Send the device back to Vocollect for repair.

## **The Device Will Not Turn On**

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1. Make sure the battery is properly seated on the device.
2. Make sure the device has a fully charged battery.
3. Send the device back to Vocollect for repair.

## The Device Keeps Shutting Off

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1. Change the battery.
2. Make sure you are placing the battery on correctly.
3. Check the battery compartment on the device to make sure it is not damaged. If it is damaged, send the device back to Vocollect for repair.
4. Check VoiceConsole for crash dump files with this device's specific serial number.

## Troubleshooting Problems Indicated by LED

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

If the LEDs indicate that there is a problem, follow the troubleshooting steps to solve the problem.

1. Check the battery contacts and the charger contacts for dirt or other obstructions that might prevent the contacts from connecting properly.
2. Clean the contacts, if necessary.
  - a) Use an isopropyl alcohol (isopropanol) swab or soft cloth dampened with isopropyl alcohol to clean metal connection points.
  - b) 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 can also use a three-row toothbrush style, general cleaning brush with natural hog hair bristles to gently brush away dirt on the contacts.
  - c) Wipe again with isopropyl alcohol.
3. Try various combinations of batteries and chargers to determine if the condition is specific to the battery or to the charger.
  - If the condition is specific to the battery, give the battery to your system administrator.
  - If the condition is specific to the charger, disconnect the charger from its power source for about five seconds, then reconnect it. Test the charger with a battery. If the same condition occurs, return the charger for service.


## About Error Messages

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Error messages may be of one of two types:

Numbered Messages display in VoiceConsole as the numeric value of the error, followed by the text message that displays in Debug. If you have seen a numbered error message in VoiceConsole, see the Numbered Error Messages topic.

Spoken Messages are heard through a headset. If you have heard an error message through a headset, see the Spoken Error Messages topic.

 **Note:** Not all numbered error messages displayed in VoiceConsole have a corresponding spoken message.

## Numbered Error Messages

Number	Text	Solution
0x020a	Event detect initialization failed.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x0203	Event control failed to create shared data module.	
0x0206	Battery is getting low.	Change the battery.
0x0207	Battery is getting low. Change battery now.	
0x0208	Battery is very low. Powering off. Must replace battery after power off complete.	
0x0602	Noise sampling procedure failed.	—
0x0603	Noise sampling procedure timed out.	—
0x0605	Invalid operator file name.	—
0x060c	Train returned bad status to UpdTrain.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x060e	Unable to train words. Not enough free flash memory.	—
0x0802	Speak failed to initialize properly.	<ol style="list-style-type: none"> <li>1. Check the crashdump file. For more information, see the VoiceConsole online help.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
0x0804	Speech-out failed. Audio system failure.	
0x1201	Dialog power-off failed.	
0x1202	Task not loaded. No task name available.	—
0x1203	OperLoad failed -- TmplSend busy.	—
0x1204	Operator load failed.	—
0x1205	Corrupted operator data.	—
0x1206	Noise sample failed.	—
0x1207	There are no operators in this team.	—
0x1208	Unable to retrieve operator files.	—
0x1209	Internal error loading operator.	—
0x120a	Task load failed.	—
0x120b	Self test mode set, but no script file found.	—

Number	Text	Solution
0x120c	No task list file found. Task unchanged.	—
0x120d	Software error while changing task. Task unchanged.	—
0x120e	Failed to load look up table. Task load failed.	—
0x1210	Failed to load terminal emulation configuration file. Task load failed.	—
0x1211	Corrupt terminal emulation configuration file. Task load failed.	—
0x1212	Corrupt task file. Task load failed.	—
0x1213	Failed to load task Vocollect configuration file. Task load failed.	—
0x1214	Failed to write the output data record network transport information registration file. Task load failed.	—
0x1215	Failed to write dialog terminal-off files in the terminal charger after task or operator load.	<ol style="list-style-type: none"> <li>1. Reload the operator.</li> <li>2. Reload the task.</li> <li>3. Reload VoiceClient.</li> </ol>
0x1216	Retraining word failed. Please try again.	—
0x1217	Initializing operator failed. Please reload operator.	—
0x1218	Failed to load task phonetic file. Task load failed.	—
0x1219	Failed to load task audio file. Task load failed.	—
0x1402	Communications error: Process message service receive error.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x1403	Communications error: Process message service send error.	
0x1406	Communications error: Process message service GetIdFromName error.	
0x140a	Communications error: Unable to close Vocollect configuration file.	
0x140f	Communications error: Unable to delete Vocollect configuration file.	
0x1410	Communications error: Vocollect network transport information registration failed.	

Number	Text	Solution
0x1411	Communications error: Unrecognized process message service message.	
0x1414	Communications error: Unable to spawn bar code process.	
0x1415	Communications error: Unable to spawn serial process.	
0x1417	Communications error: Bad FTP command.	
0x141b	Communications error: Bad socket command.	
0x1420	Error: Unable to initialize bar code port.	
0x1421	Display Mode host name or IP address bad.	
0x1422	Display Mode service name or port bad.	
0x1423	Error: Unable to initialize Debug/training COM port.	
0x1425	Socket host name or IP address bad.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> <li>4. Reload the task.</li> <li>5. Verify the task's output data records (ODRs) and lookup tables (LUTs) have correct and valid socket host and service information. If you need assistance, contact Vocollect.</li> </ol>
0x1426	Socket service name or port bad.	
0x1427	Unable to send file via socket. Unable to open.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x142a	Invalid Terminal Manager service name or port.	—
0x142c	Telnet session manager failed to start.	—
0x142d	Telnet client process failed to start.	—
0x142e	Telnet VT220 emulation process failed to start.	—
0x142f	Unable to open send data file, for telnet send.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x1430	Error, Unable to Initialize Printer Port.	

Number	Text	Solution
0x1431	Unable to print label, unable to open file.	
0x1432	Printer Error, Process Message Service Send Error.	
0x1433	Comm Error, Unable to spawn printer process.	
0x1600	File Manager initialization failed.	
0x1601	File Manager process message service receive failed.	
0x1602	Warning, low flash memory.	—
0x1603	Warning, low flash memory. You must upload your collected data now.	—
0x1a01	Process history data initialization failed.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x1a02	Process history data process message service receive failed.	
0x1a03	Process history data process message service retry failed.	
0x1a04	Process history data file descriptor structure error.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reload the task.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
0x1a05	Process history data lookup table structure error.	
0x1a06	Process history data bins to records write error.	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
0x1a09	Process history data power-off error.	
0x1a0b	Process history data process message service initialization data file descriptor failed.	
0x1e01	Video terminal emulation initialization failed.	
0x1e02	Video terminal emulation process message service receive failed.	
0x2100	Flash failed to virtual allocate the flash device.	
0x2101	Flash failed to initialize the device for the file system.	
0x2102	Flash failed to virtual copy the flash device.	
0x2104	Flash failed because of erase block argument was invalid.	

Number	Text	Solution
0x2105	Flash library failed during erase.	—
0x2106	Flash failed because of invalid flash write pointer argument.	—
0x2107	Flash library failed during write.	—
0x2108	Flash failed because of invalid flash read pointer argument.	—
0x2109	Flash library failed during read.	—
0x210a	Flash library failed while deleting a file.	—
0x210b	Flash library failed while finding a file.	—
0x210c	Flash failed to open the specified file in RAM.	—
0x210d	Flash failed to read the specified file from RAM.	—
0x210e	Flash failed to write the specified file to RAM.	—
0x210f	Flash library failed while opening a file.	—
0x2110	Flash library failed while closing a file.	—
0x2111	Flash had invalid flash file image generator linked list.	—
0x2112	Flash is full. Please wait while Talkman turns off.	—
0x2115	Flash library failed. Out of space.	—
0x2116	Flash library failed during reclaim.	—

## Spoken Error Messages

Error Message	Solution
"Battery is very low. Powering off. Must replace battery after power off complete."	Change the battery.
"Battery is getting low."	Change the battery.
"Battery is getting low. Change battery now."	Change the battery.
"Cannot load operator while sending templates."	Wait until all templates are loaded, then load the operator.
"Cannot load task. Processing data."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reload the task.</li> </ol>



Error Message	Solution
	<ol style="list-style-type: none"> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
<p>"Corrupt task file. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reload the task.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
<p>"Corrupt device emulation config file. Task load failed."</p>	
<p>"Corrupted operator data."</p>	<p>Reload the operator.</p>
<p>"Failed to load lookup table. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
<p>"Failed to load task audio file. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
<p>"Failed to load task phonetic file. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
<p>"Failed to load task VCF file. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
<p>"Failed to load device emulation config file. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
<p>"Failed to write the ODR NTI registration file. Task load failed."</p>	<ol style="list-style-type: none"> <li>1. Reload the task.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> </ol>

Error Message	Solution
	4. Reload VoiceClient.
"Firmware error while changing task. Task not changed."	<ol style="list-style-type: none"> <li>1. Reload the task.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Flash error."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Flash is full. Please wait while Talkman turns off."	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Headset battery is getting low."	Change the battery.
"Headset battery is getting low. Change headset battery now."	Change the battery.
"Initializing operator failed. Please reload operator."	<ol style="list-style-type: none"> <li>1. Reload the operator.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Internal error loading operator."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Invalid operator file name."	Select the operator again or load a different operator.
"Invalid device Manager Host name or address."	
"Invalid device Manager Service name or port."	
"No task list file found. Task unchanged."	<ol style="list-style-type: none"> <li>1. Reload the task.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Noise sampling procedure failed."	<ol style="list-style-type: none"> <li>1. Sample noise again.</li> <li>2. Go to a quieter location and perform another noise sample.</li> <li>3. Try using another headset and perform the noise sample.</li> </ol> <p><b>Note:</b> If this solves the problem, the first headset might be damaged.</p>

Error Message	Solution
"Noise sampling procedure timed out."	<ol style="list-style-type: none"> <li>1. Sample noise again.</li> <li>2. Reboot the device.</li> </ol>
"Operator load failed."	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Power-off error."	<ol style="list-style-type: none"> <li>1. Power on the device.</li> <li>2. Reboot the device.</li> </ol>
"Self test mode set, but no script file found."	Edit the task configuration file, taskname.vcf, and change the line selftest=1 to selftest=0.
"Software error while changing task. Task unchanged."	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
"Task load failed."	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reload the task.</li> <li>4. Reboot the device.</li> <li>5. Reload VoiceClient.</li> </ol>
"Task not loaded. No task name available."	<ol style="list-style-type: none"> <li>1. Reload the task.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Telnet client process failed to start."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Telnet session manager failed to start."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Telnet VT220 emulation process failed to start."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Unable to receive input data."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> </ol>

Error Message	Solution
	<ol style="list-style-type: none"> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Unable to retrieve operator files."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Unable to send output data."	<ol style="list-style-type: none"> <li>1. Turn the device off and then turn it back on again.</li> <li>2. Reboot the device.</li> <li>3. Reload VoiceClient.</li> </ol>
"Unable to train words. Not enough free flash memory."	<ol style="list-style-type: none"> <li>1. Wait for the device to go to sleep.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> </ol>
"Warning, low flash memory!"	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> <li>5. Place the device in a charger as soon as possible.</li> </ol>
"Warning, low flash memory! You must upload your collected data now!"	<ol style="list-style-type: none"> <li>1. Go to an area of known good coverage.</li> <li>2. Turn the device off and then turn it back on again.</li> <li>3. Reboot the device.</li> <li>4. Reload VoiceClient.</li> <li>5. Place the device in a charger as soon as possible.</li> </ol>

## Contacting Technical Support

This section describes what you will need before contacting technical support with an issue and how to gather the needed files.

### General Information Needed for Most Support Requests

Devices Types	Vocollect Talkman model
	Non-Talkman device manufacturer/model
	Vocollect headset model
	Other headset
	Bar code reader type
Vocollect Voice Software	VoiceClient version displayed in VoiceConsole

	VoiceCatalyst version displayed in VoiceConsole
Vocollect VoiceConsole	VoiceConsole version
Device Logs	Have you begun to capture device logs? Be prepared to submit these files to your technical support center.

### Common Questions to Answer when Contacting Support

- Was a previous service request for the same problem / question closed as unresolved?
- How many users are affected?
- How often does the issue happen?
- What is the current workaround?
- When did the issue first occur?
- How is this impacting the business?
- Has anything about the environment changed?

### Enabling Device Logging in VoiceConsole

1. Select **VoiceConsole > Device Management > Devices**.
2. Click the name of the device for which you want to enable logging. The properties window for that device will appear.
3. Enable logging for the device. Depending on the version of VoiceConsole you are running:


VoiceConsole 2.x	Activate the <b>Enable</b> check box in the <b>Logging</b> section.
VoiceConsole 3.x and newer	Click the <b>Edit selected device</b> link. In the logging section of the Edit Device page, select <b>Enabled</b> from the <b>Logging Enabled</b> drop-down list.

4. After the issue has been captured in the log file, export the log file through the Device Properties window.
5. Save the file and send it to Technical Support, along with any other relevant information.

### About Sending Equipment Back for Repairs

 **Important:**

- Only equipment purchased directly from Honeywell can be returned to Honeywell for repairs.
- If you purchased Honeywell equipment — for example, a headset in the SR-Series — from a Honeywell reseller, contact the reseller.
- If you are using Vocollect VoiceClient on a handheld device, contact the reseller or device manufacturer if you have questions or issues concerning the device.

 **Attention:** Remove ear pads, mounting discs, cables, and cord clips before shipping. These consumable items slow down the repair process, and units will be shipped back without these consumables installed.


Honeywell issues RMAs for all returns regardless of the reason for the return. This guarantees proper tracking of equipment, ensures proper handling, and facilitates a fast return.

The Customer Service department generally issues RMAs to customers who are returning products for repair. However, Honeywell may issue RMAs for other reasons, such as the following:

- The product belongs to Honeywell. Honeywell may have loaned the product to a customer or provided it as a sample.
- Honeywell requested that the customer return the item, perhaps for testing.
- A Honeywell employee at the customer site has determined that the product should go back to Honeywell for some other reason.
- Exchange — for example, an incorrect item was shipped or the wrong size of belt was ordered.

Some Honeywell customers have service contracts with repair depots to perform repairs on Honeywell products. Customers with these service contracts should contact their repair depot to return equipment. Follow the RMA issuance procedures to eliminate unnecessary repair costs and to ensure timely product receipt. If you have a question about the RMA process, please contact Customer Service.

## Packaging Items for Return to Honeywell

 **Note:** Properly packaged RMA items facilitate faster repair and return of Honeywell products. Honeywell appreciates your assistance and adherence to these policies.

1. Pack items so that no items can come into direct contact with one another or with the sides, bottom, or top of the shipping container.
2. Line the shipping container with at least one layer of padding, preferably anti-static bubble pack.
3. Pack each item individually in a bag or wrapping, preferably anti-static bubble bags or wrapping.
  - If individual wrapping is not possible, place some packing material (such as anti-static bubble pack) on the bottom of the shipping container, then pack items between layers of the material.
  - Avoid using foam peanuts as the only packing material because they do not prevent items from coming into contact with each other or the walls of the shipping container. Peanuts can, however, fill empty space in the shipping container and on top of items that have been individually packed in anti-static bubble bags.

## Sending Equipment Back for Repairs: Return Material Authorization (RMA) Procedures

1. Send an email to [ACSHSMVocollectRMA@honeywell.com](mailto:ACSHSMVocollectRMA@honeywell.com) with the following information:
  - Name of customer contact person
  - Company name
  - Company address
  - Phone number
  - Fax number
2. Also provide the following information about the items being returned:
  - Quantity
  - Description of product
  - Serial number
  - The version number of the software currently installed at your site
  - Description of problem or reason for return
  - Whether the product is covered by warranty, Extended Service Plan (ESP), or Depot Express
  - A purchase order number if items are not covered by ESP or Depot Express
3. Include the RMA number on the shipping label, if shipping items to Honeywell.
4. Package the equipment according to the packaging instructions.

5. Address the shipping label to: Honeywell, 4250 Old William Penn Highway Monroeville, PA 15146-1622  
RMA





# Appendix A


## Specifications

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### A710 Specifications

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Weight	5.6 ounces (158.76g) With standard battery: 8.4 ounces (238.14g) With high-capacity battery: 10.2 ounces (289.17g)
Length	5.4" (13.7 cm)
Width	2.5" (6.35 cm) With high-capacity battery: 3.046" (7.74 cm)
Depth	1.7" (4.32 cm)
I/O Ports	USB maintenance port with audio out and virtual serial support
Operating Temperature	-22° to 122° F (-30° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	Meets MIL-STD-810F method 514.6 In addition, the device has been tested to the following specifications: <ul style="list-style-type: none"><li>• 24 drops at 5 feet (1.5m) to steel</li><li>• 12 drops at 6 feet (1.8m) to steel</li></ul>
Humidity	100% condensing
Enclosure Rating	IP67


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

### A720 Specifications

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Weight	5.8 ounces (166.81g) With standard battery: 8.7 ounces (247.09g) With high-capacity battery: 10.5 ounces (298.61g)
Length	5.9" (14.99 cm)


Width	2.5" (6.35 cm) With high-capacity battery: 3.046" (7.74 cm)
Depth	1.7" (4.32 cm)
I/O Ports	<ul style="list-style-type: none"> <li>• USB maintenance port with audio out and virtual serial support</li> <li>• Headset port (yellow)</li> <li>• RS232 serial TCO connector (red/blue)</li> </ul>
Operating Temperature	-22° to 122° F (-30° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	Meets MIL-STD-810F method 514.6 In addition, the device has been tested to the following specifications: <ul style="list-style-type: none"> <li>• 24 drops at 5 feet (1.5m) to steel</li> <li>• 12 drops at 6 feet (1.8m) to steel</li> </ul>
Humidity	100% condensing
Enclosure Rating	IP67

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

## A730 Specifications

Weight	6.65 ounces (188.39g) With standard battery: 9.5 ounces (268.67g) With high-capacity battery: 11.3 ounces (320.2g)
Length	5.9" (14.99 cm)
Width	2.5" (6.35 cm) With high-capacity battery: 3.046" (7.74 cm)
Depth	1.7" (4.32 cm)
I/O Ports	Maintenance port with audio out
Operating Temperature	-8° to 122° F (-20° to 50° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Drop Tested	Meets MIL-STD-810F method 514.6 In addition, the device has been tested to the following specifications: <ul style="list-style-type: none"> <li>• 24 drops at 5 feet (1.5m) to steel</li> <li>• 12 drops at 6 feet (1.8m) to steel</li> </ul>
Humidity	100% condensing

Enclosure Rating	IP67
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 **Note:** Packaging varies for product shipments. Generally, packing materials are about 15% of the total shipment weight.

## A700 Product Battery Specifications

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

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

### Electrical Specifications

- Cells: The high capacity battery pack uses two lithium ion cells.
  - Nominal voltage = 3.7V
  - Capacity = 4400mAh 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.
- Environmental specifications: The battery pack halves are sonically welded together to protect the internals from water and dust. The battery functions properly in the following conditions:

Operation Temperature: -30°C to 50°C (-22°F to 122°F)

Storage Temperature: -30°C to 60°C (-22°F to 140°F)

Humidity: 95% condensing

Rain/dust: IP67

### Battery Notifications

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


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



## A700 6-Bay Device Charger Specifications

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

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


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

## A700 12-Bay Battery Charger Specifications

Length	22.1" (56.1cm)
Depth	5.83" (14.8cm)
Height	6.14" (15.6cm)
Power	Input Voltage: 100-240 Vac Input Current: 2.0 A maximum Line Frequency: 50-60 Hz
Cord	Uses standard IEC 60320 plug
Operating Temperature	32° to 104° F (0° to 40° C)
Storage Temperature	-40° to 158° F (-40° to 70° C)
Charging Temperature	41° to 95° F (5° to 35° C)*
Humidity	Functional to 5% to 90% non-condensing

\* The battery charger's components will operate in ambient temperatures between 32° and 104° F (0° and 40° C) with no adverse effects. Functional battery charging is restricted to ambient temperatures between

41° and 95° F (5° and 35° C), to limit the internal temperature of the batteries and improve charging performance.

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



# Appendix B

## Part Numbers

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### Part Numbers: Vocollect Talkman Devices

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Device	Vocollect Part Number
Talkman A700 Base Unit	TT-900
Talkman A710 (for Bluetooth Headsets and Peripherals)	TT-910
Talkman A720 (with two Talkman Connectors)	TT-920
Talkman A730 (with Integrated Scanner)	TT-930

### Part Numbers: Talkman Accessories

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Accessory	Vocollect Part Number
A700 Device Belt	BL-801-X
A700 Device Standard Holster (for A710 and A720)	BL-901
A700 Device Scanner Holster (for A730)	BL-902
A700 High Capacity Battery	BT-902
A700 High Capacity Battery, Box of 24	BT-902-100B
A700 Standard Battery	BT-901
A700 Standard Battery, Box of 24	BT-901-100B
A700 Maintenance Cable, USB micro-B to Type A	RS-900-1
A700 Unpowered Vehicle Dock	BL-903
Vehicle Mount, Holder/Base Screw On Attachment, Talkman A700 and A500/T5 Series	BL-710-101
Vehicle Mount, Arm, Talkman A700 and A500/T5 Series	BL-710-102
Vehicle Mount, Clamp, Talkman A700 and A500/T5 Series	BL-710-103
Vehicle Mount, Clamp, RAM Tough-Claw, Talkman A700 and A500/T5 Series	BL-710-104

## Part Numbers: Chargers

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Charger - Device	Vocollect Part Number
A700 6-Bay Device Charger and Power Supply	CM-901
A700 12-Bay Battery Charger and Power Supply	CM-902
A700 Charger Power Supply	CM-901-101
A700 Charger Mounting Rail	CM-1000-20-101



# Appendix C

## Talkman A730 Symbologies

Registry Key	Default Value	Description
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Postnet] - Postnet Symbology Configuration		
PostnetActivation	0x0	Enables the Postnet symbology.
PostnetCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
PostnetCheckDigitTransmission	0x1	Enable transmission of the check digit.
PostnetUDSI	"P0"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Planet] - Planet Symbology Configuration		
PlanetActivation	0x0	Enables the Planet symbology.
PlanetCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
PlanetCheckDigitTransmission	0x1	Enable transmission of the check digit.
PlanetUDSI	"P1"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\BPO] - BPO Symbology Configuration		
BPOActivation	0x0	Enables the British Post Office symbology.
BPOCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
BPOCheckDigitTransmission	0x1	Enable transmission of the check digit.
BPOUDSI	"P2"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Canada Post] - Canada Post Symbology Configuration		
CanadaPostActivation	0x0	Enables the Canada Post symbology.
CanadaPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
CanadaPostUDSI	"P6"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Australian Post] - Australian Post Symbology Configuration		
AustralianPostActivation	0x0	Enables the Australian Post symbology.
AustralianPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.

Registry Key	Default Value	Description
AustralianPostUDSI	"P3"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Japan Post] - Japan Post Symbology Configuration		
JapanPostActivation	0x0	Enables the Japan Post symbology.
JapanPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
JapanPostCheckDigitTransmission	0x1	Enable transmission of the check digit.
JapanPostUDSI	"P5"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Dutch Post] - Dutch Post Symbology Configuration		
DutchPostActivation	0x0	Enables the Dutch Post symbology.
DutchPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
DutchPostUDSI	"P4"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Sweden Post] - Sweden Post Symbology Configuration		
SwedenPostActivation	0x0	Enables the Sweden Post symbology.
SwedenPostCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
SwedenPostUDSI	"P7"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Infomail] - Infomail Symbology Configuration		
InfomailActivation	0x0	Enables the Infomail symbology.
InfomailCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
InfomailUDSI	"P8"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Intelligent Mail] - Intelligent Mail Symbology Configuration		
IntelligentMailActivation	0x0	Enables the Intelligent Mail symbology.
IntelligentMailCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
IntelligentMailUDSI	"PA"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Codabar] - Codabar Symbology Configuration		
CodabarActivation	0x0	Enables the Codabar symbology.
CodabarCodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
CodabarCheckDigitVerification	0x0	Enables calculation of the check digit.

Registry Key	Default Value	Description
CodabarBarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).
CodabarBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
CodabarBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
CodabarBarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
CodabarCheckDigitTransmission	0x0	Enable transmission of the check digit.
CodabarStartStopTransmission	0x0	Selects start/stop character format to transmit, where 0 = not transmitted, 1 = "a, b, c, d", 2 = "A, B, C, D", 3 = "a, b, c, d / t, n, *, e", and 4 = "DC1, DC2, DC3, DC4".
CodabarCLSIlibrarySystem	0x0	Enables the CLSI (Computer Library Services, Inc) library standard for Codabar: 14 characters, no start/stop, spaces at positions 2, 7, and 13.
CodabarConcatenation	0x0	Multiple label concatenation, where 0 = disabled, 1 = only concatenated, and 2 = concatenate if possible.
CodabarConcatenationMode	0x0	Sets requirements for concatenation, where 0 = no requirements, 1 = Second code start = first code stop, and 2 = American Blood Commission (second code start = first code stop = 'd').
CodabarUDSI	"B7"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 93] - Code 93 Symbology Configuration		
Code93Activation	0x0	Enables the Code 93 symbology.
Code93CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
Code93BarCodeLengthL1	0x1	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Code93BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
Code93BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
Code93BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
Code93UDSI	"B6"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 39] - Code 39 Symbology Configuration		
Code39Activation	0x1	Enables the Code 39 symbology.
Code39Unconventional	0x0	Allows decoding of unconventional Code 39 (large intercharacter spacing or a large ratio between narrow and wide elements).

Registry Key	Default Value	Description
Code39ReadingRange	0x1	Enables Vesta algorithm decoding for better read range.
Code39CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
Code39CheckDigitVerification	0x0	Enables various check digit calculations, where 0 = disabled, 1 = modulo 43, 2 = French CIP, 3 = Italian CPI, 4 = HIBC, and 5 = AIAG.
Code39ReadingTolerance	0x0	Tolerance for reading "hard to read" barcodes, where 0 = high, 1 = medium, and 2 = low.
Code39BarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Code39BarCodeLengthL2	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Code39BarCodeLengthL3	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Code39BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
Code39CheckDigitTransmission	0x0	Enable transmission of the check digit.
Code39StartStopTransmission	0x0	Enables transmission of start/stop characters.
Code39AcceptedStartCharacter	0x2	Selects start character, where 1 = '\$', 2 = '*', and 3 = '\$' and '*'.
Code39FullASCIIConversion	0x0	Enables extended character set through the use of control characters, where 0 = disabled and 1 = enabled (extended spec).
Code39UDSI	"B1"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 128] - Code 128 Symbology Configuration		
Code128Activation	0x1	Enables the standard Code 128 symbology.
ISBT128Activation	0x0	Enables the International Society of Blood Transfusion's variant of Code 128.
GS1-128Activation	0x1	Enables the GS1 (formerly EAN) variant of Code 128.
UnconventionalGS1-128	0x1	Unconventional decoding mode bitfield, where bit 0 = allow decode of double FNC1, bit 1 = FNC2 append disabled, bit 2 = FNC4 ASCII extensions disabled.
Code128ReadingRange	0x1	Enables Vesta algorithm decoding for better read range.
Code128CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
GS1-128CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.

Registry Key	Default Value	Description
Code128CheckDigitVerification	0x0	Enables verification of French CIP check digit.
Code128ReadingTolerance	0x0	Enables verification of segment width, where 0 = disabled, 1 = medium tolerance, 2 = low tolerance.
Code128BarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Code128BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
Code128BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
Code128BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
GS1-128Identifier	0x1	Enables transmission of AIM identifier before the barcode data. This is ignored if GTIN is active.
Code128SeparatorCharacter	0x1d	Separator between multiple concatenated barcodes.
Code128ConcatenationTransmission	0x0	Multiple label concatenation, where 0 = disabled, 1 = only concatenated, and 2 = concatenate if possible.
Code128Concatenation	0x0	Enables non-ISBT-compliant barcodes to be concatenated.
GTINProcessingforGS1-128	0x0	Limits valid GS1-128 barcodes to GTIN (Global Trade Item Number)-compliant format.
Code128UDSI	"B3"	User-defined symbology identifier. Range is 0-4 characters.
GS1-128UDSI	"C9"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Interleaved 2 of 5] - Interleaved 2 of 5 Symbology Configuration		
Interleaved2of5Activation	0x0	Enables the Interleaved 2 of 5 symbology.
Interleaved2of5ReadingRange	0x1	Enables Vesta algorithm decoding for better read range.
Interleaved2of5CodeMark	0x49	A single character inserted before the barcode data to indicate the symbology.
Interleaved2of5CheckDigitVerification	0x0	Enables various check digit calculations, where 0 = disabled, 1 = modulo 10 and 2 = French CIP HR.
Interleaved2of5ReadingTolerance	0x0	Tolerance for reading "hard to read" barcodes, where 0 = high, 1 = medium, and 2 = low.
Interleaved2of5BarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Interleaved2of5BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
Interleaved2of5BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).

Registry Key	Default Value	Description
Interleaved2of5BarcodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
Interleaved2of5CheckDigitTransmission	0x0	Enable transmission of the check digit.
Interleaved2of5UDSI	"B2"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Matrix 2 of 5] - Matrix 2 of 5 Symbology Configuration		
Matrix2of5Activation	0x0	Enables the MSI Code symbology.
Matrix2of5StartStop	0x0	Enables special ChinaPost mode, where a specific start/stop is required and the checksum is transmitted.
Matrix2of5CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
Matrix2of5BarcodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Matrix2of5BarcodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
Matrix2of5BarcodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
Matrix2of5BarcodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
Matrix2of5UDSI	"B4"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\MSI Code] - MSI Code Symbology Configuration		
MSIActivation	0x0	Enables the MSI Code (Modified Plessey) symbology.
MSICodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
MSICheckDigitVerification	0x1	Enables various check digit calculations, where 1 = modulo 10 and 2 = double modulo 10.
MSIBarcodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).
MSIBarcodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
MSIBarcodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
MSIBarcodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
MSICheckDigitTransmission	0x1	Enable transmission of the check digit.
MSIUDSI	"B8"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Plessey Code] - Plessey Code Symbology Configuration		

Registry Key	Default Value	Description
PlesseyActivation	0x0	Enables the Plessey symbology.
PlesseyUnconventionalStop	0x0	Not documented.
PlesseyCodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
PlesseyBarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).
PlesseyBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
PlesseyBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
PlesseyBarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
PlesseyCheckDigitTransmission	0x0	Enable transmission of the check digit.
PlesseyUDSI	"C2"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Standard 2 of 5] - Standard 2 of 5 Symbology Configuration		
Standard2of5Activation	0x0	Enables the Standard 2 of 5 symbology.
Standard2of5CodeMark	0x44	A single character inserted before the barcode data to indicate the symbology.
Standard2of5CheckDigitVerification	0x0	Enables modulo 10 calculation of check digits.
Standard2of5BarCodeLengthL1	0x6	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Standard2of5BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
Standard2of5BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
Standard2of5BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
Standard2of5CheckDigitTransmission	0x0	Enable transmission of the check digit.
Standard2of5Format	0x0	Specifies read mode, where 0 = Identicon (6 start/stop bars) and 1 = Computer Identics (4 start/stop bars).
Standard2of5UDSI	"B5"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Telepen] - Telepen Symbology Configuration		
TelepenActivation	0x0	Enables the Telepen symbology.
TelepenCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
TelepenBarCodeLengthL1	0x0	Length value L1. Range is 0x0 to 0xFF (0 to 255).

Registry Key	Default Value	Description
TelepenBarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
TelepenBarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
TelepenBarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
TelepenFormat	0x0	Sets output format, where 0 = ASCII and 1 = numeric.
TelepenUDSI	"C6"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Code 11] - Code 11 Symbology Configuration		
Code11Activation	0x0	Enables the Code 11 symbology.
Code11CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
Code11CheckDigitVerification	0x1	Number of check digits to verify. Range is 1 to 2.
Code11BarCodeLengthL1	0x4	Length value L1. Range is 0x0 to 0xFF (0 to 255).
Code11BarCodeLengthL2	0x0	Length value L2. Range is 0x0 to 0xFF (0 to 255).
Code11BarCodeLengthL3	0x0	Length value L3. Range is 0x0 to 0xFF (0 to 255).
Code11BarCodeLengthMode	0x0	Length verification mode, where 0 = "L1 is min length", 1 = "L1, L2, L3 are fixed lengths", and 2 = "L1 is min, L2 is max length".
Code11CheckDigitTransmission	0x1	Enable transmission of the check digit.
Code11UDSI	"C1"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\EAN / UPC] - EAN/UPC Symbology Configuration		
UPC-AAActivation	0x1	Enables the UPC-A symbology.
UPC-EActivation	0x1	Enables the UPC-E symbology.
EAN-8Activation	0x1	Enables the EAN-8 symbology.
EAN-13Activation	0x1	Enables the EAN-13 symbology.
ISBNConversionforEAN-13	0x0	Converts EAN-13 barcodes starting with "978" or "979" (except for "9790") to ISBN (International Standard Book Number) format.
EANUPCAdd-On2	0x0	Enables decoding of 2-digit EAN/UPC supplements.
EANUPCAdd-On5	0x0	Enables decoding of 5-digit EAN/UPC supplements.



Registry Key	Default Value	Description
EANUPCAdd-OnDigitSecurity	0xa	Selects how much time is spent looking for add-on digits when add-on digits are enabled but not required. Range is 0x0 - 0x64 (0 to 100), where 0x0 is fastest.
UPC-ACodeMark	0x41	A single character inserted before the barcode data to indicate the symbology.
UPC-ECodeMark	0x45	A single character inserted before the barcode data to indicate the symbology.
EAN-8CodeMark	0x4e	A single character inserted before the barcode data to indicate the symbology.
EAN-13CodeMark	0x46	A single character inserted before the barcode data to indicate the symbology.
UPC-E1Activation	0x0	Enables the UPC-E1 variant of UPC-E.
EANUPCReadingRange	0x1	Enables Vesta algorithm decoding for better read range.
UPC-ACheckDigitTransmission	0x1	Enable transmission of the check digit.
UPC-ECheckDigitTransmission	0x1	Enable transmission of the check digit.
EAN-8CheckDigitTransmission	0x1	Enable transmission of the check digit.
EAN-13CheckDigitTransmission	0x1	Enable transmission of the check digit.
UPC-ANumberSystemTransmission	0x1	Enables transmission of the UPC-A number system.
UPC-ENumberSystemTransmission	0x1	Enables transmission of the UPC-E number system.
UPC-ATransmittedasEAN-13	0x1	Enables conversion of UPC-A to EAN-13.
UPC-ETransmittedasUPC-A	0x0	Enables conversion of UPC-E to UPC-A.
EAN-8TransmittedasEAN-13	0x0	Enables conversion of EAN-8 to EAN-13.
EANUPCAdd-OnDigits	0x0	Add-on digit requirement, where 0 = optional and 1 = required.
EANUPCGTINProcessing	0x0	Converts EAN-13 barcodes to GTIN (Global Trade Item Number)-compliant format.
ISMNConversionforEAN-13	0x0	Converts EAN-13 barcodes starting with "9790" to ISMN (International Standard Music Numbering) format.
ISSNConversionforEAN-13	0x0	Converts EAN-13 barcodes starting with "977" to ISSN (International Standard Serial Number) format.
UPC-AUDSI	"A0"	User-defined symbology identifier. Range is 0-4 characters.
UPC-EUDSI	"E0"	User-defined symbology identifier. Range is 0-4 characters.

Registry Key	Default Value	Description
EAN-8UDSI	"FF"	User-defined symbology identifier. Range is 0-4 characters.
EAN-13UDSI	"F"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\PDF417] - PDF417 Symbology Configuration		
PDF417Activation	0x1	Enables the PDF417 symbology.
MicroPDF417Activation	0x0	Enables the "micro" variant of PDF417.
PDF417IrregularPDF	0x0	Enables the reading of labels for a symbol length descriptor of 0.
PDF417Code128Emulation	0x0	Certain Micro PDF417 codes are read as Code 128.
PDF417CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
MicroPDF417CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
PDF417OptionalFieldsFileNameTransmission	0x0	Enables file name transmission for PDF417.
PDF417SegmentCountTransmitted	0x0	Enables segment count transmission for PDF417.
PDF417TimeStampTransmitted	0x0	Enables time stamp transmission for PDF417.
PDF417SenderTransmitted	0x0	Enables sender transmission for PDF417.
PDF417AddresseeTransmitted	0x0	Enables addressee transmission for PDF417.
PDF417FileSizeTransmitted	0x0	Enables file size transmission for PDF417.
PDF417ChecksumTransmitted	0x0	Enables checksum transmission for PDF417.
PDF417UDSI	"C7"	User-defined symbology identifier. Range is 0-4 characters.
MicroPDF417UDSI	TODO	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Codablock] - Codablock Symbology Configuration		
CodablockAAActivation	0x0	Enables the Codablock A (Code 39-based) symbology (if enabling this symbology, it is recommended to disable Code 39 to prevent conflict).
CodablockFAActivation	0x0	Enables the Codablock F (Code 128-based) symbology (if enabling this symbology, it is recommended to disable Code 128 to prevent conflict).
CodablockACodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
CodablockFCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.

Registry Key	Default Value	Description
CodablockAUDSI	"K0"	User-defined symbology identifier. Range is 0-4 characters.
CodablockFUDSI	"K1"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\TLC 39] - TLC 39 Symbology Configuration		
TLC39Activation	0x0	Enables the TLC 39 symbology (requires Micro PDF417 and Code 39 to be enabled as well).
TLC39LinearOnlyTransmissionMode	0x0	Ignores Micro PDF417 data and only transmits the Code 39 portion.
TLC39ECISecurity	0xa	Selects how much time is spent looking an ECI number if the Code 39 portion of the label is 6 digits. Range is 0x0 - 0x64 (0 to 100), where 0x0 is fastest.
TLC39CodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
TLC39UDSI	"H0"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\GS1 DataBar] - GS1 DataBar Symbology Configuration		
DatabarOmniDirectionalActivation	0x0	Enables the DataBar Omnidirectional/RSS 14 symbology.
DatabarLimitedActivation	0x0	Enables the DataBar Limited/RSS Limited symbology.
DatabarExpandedActivation	0x0	Enables the DataBar Expanded/RSS Expanded symbology.
DatabarOmniDirectionalCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
DatabarLimitedCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
DatabarExpandedCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
DatabarOmniDirectionalUDSI	"C3"	User-defined symbology identifier. Range is 0-4 characters.
DatabarLimitedUDSI	"C4"	User-defined symbology identifier. Range is 0-4 characters.
DatabarExpandedUDSI	"C5"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Maxicode] - Maxicode Symbology Configuration		
MaxicodeActivation	0x0	Enables the Maxicode symbology.
Mode0	0x0	Enables the obsolete Mode 0 variant of Maxicode.
MaxicodeMode0Header	0x0	Header for Mode 0 labels, where 0 = regular (AIM) and 1 = extended (same as mode 2/3).
MaxicodeCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.

Registry Key	Default Value	Description
MaxicodeUDSI	"D2"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Aztec] - Aztec Symbology Configuration		
AztecActivation	0x0	Enables the Aztec symbology.
AztecStructuredAppend	0x0	Enables Aztec structured append header.
AztecRunes	0x0	Enables the Aztec Runes variant of Aztec.
AztecEAN128Emulation	0x0	Sends an EAN 128 symbology identifier before the data.
AztecCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
AztecUDSI	"D3"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Datamatrix] - Datamatrix Symbology Configuration		
DatamatrixActivation	0x1	Enables the Datamatrix symbology.
DatamatrixMirroredLabelsActivation	0x0	Enables decoding of mirrored labels.
DatamatrixCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
DatamatrixUDSI	"D0"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\QR Code] - QR Code Symbology Configuration		
QRCodeActivation	0x0	Enables the QR (Quick Response) Code symbology.
QRCodeInverseVideo	0x0	Decoding mode for black/white inverted labels, where 0 = normal (black on white), 1 = inverse (white on black), and 2 = automatic.
QRCodeUnconventionalStructuredAppend	0x0	Enable transmission of label header with every symbol.
MicroQRActivation	0x0	Enables the "micro" variant of QR.
QRCodeCodeMark	0x2a	A single character inserted before the barcode data to indicate the symbology.
QRCodeUDSI	"D1"	User-defined symbology identifier. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\GS1 Composite] - GS1 Composite Symbology Configuration		
CompositeABAActivation	0x0	Enables GS1 Composite with a CC-A or CC-B (Micro PDF417) 2D component.
CompositeCAActivation	0x0	Enables GS1 Composite with a CC-C (PDF417) 2D component.
CompositeGS1-128Emulation	0x0	Enables emulation of the GS1-128 symbology.
CompositeLinearOnlyTransmissionMode	0x0	Ignores the 2D portion and only transmits the 1D barcode.

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

Registry Key	Default Value	Description
MulticodeIDForBarcode7	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeIDForBarcode8	0x0	Intermec-specific symbology identifier (0x0 is disabled). See manufacturer's website for details.
MulticodeLengthForBarcode1	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode2	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode3	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode4	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode5	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode6	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode7	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeLengthForBarcode8	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MulticodeIncompleteTransmissionTimeout	0x0	Timeout, in ms, before an incomplete multicode is transmitted.
MulticodeMaskForBarcode1	""	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode2	""	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode3	""	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode4	""	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.

Registry Key	Default Value	Description
MulticodeMaskForBarcode5	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode6	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode7	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeMaskForBarcode8	"*"	A regular expression, up to 26 characters, to filter what barcodes are included in the multicode. See manufacturer's website for details.
MulticodeUDSI	"UDM0"	User-defined symbology identifier. Range is 0-4 characters.
MulticodeUDSIOfIncomplete	"UDM1"	User-defined symbology identifier. Range is 0-4 characters. Used when incomplete transmission is enabled and the timeout is reached.
MulticodeBarcodeSeparator	"<>"	Separation string between barcodes. Range is 0-4 characters.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Data Editing] - Barcode Data Editing		
ActivationForScenario1	0x0	Enables the barcode editing scenario.
ActivationForScenario2	0x0	Enables the barcode editing scenario.
ActivationForScenario3	0x0	Enables the barcode editing scenario.
ActivationForScenario4	0x0	Enables the barcode editing scenario.
ActivationForScenario5	0x0	Enables the barcode editing scenario.
ActivationForScenario6	0x0	Enables the barcode editing scenario.
ActivationForScenario7	0x0	Enables the barcode editing scenario.
BarcodeIdentifierForScenario1	0x0	Intermec-specific symbology identifier (0x0 is all symbolologies). See manufacturer's website for details.
BarcodeIdentifierForScenario2	0x0	Intermec-specific symbology identifier (0x0 is all symbolologies). See manufacturer's website for details.
BarcodeIdentifierForScenario3	0x0	Intermec-specific symbology identifier (0x0 is all symbolologies). See manufacturer's website for details.

Registry Key	Default Value	Description
BarcodeIdentifierForScenario4	0x0	Intermec-specific symbology identifier (0x0 is all symbologies). See manufacturer's website for details.
BarcodeIdentifierForScenario5	0x0	Intermec-specific symbology identifier (0x0 is all symbologies). See manufacturer's website for details.
BarcodeIdentifierForScenario6	0x0	Intermec-specific symbology identifier (0x0 is all symbologies). See manufacturer's website for details.
BarcodeIdentifierForScenario7	0x0	Intermec-specific symbology identifier (0x0 is all symbologies). See manufacturer's website for details.
BarcodeLengthForScenario1	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario2	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario3	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario4	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario5	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario6	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
BarcodeLengthForScenario7	0x0	Specifies a fixed number of characters for this symbology. Range is 0x0 to 0xFFFF (0 to 32767), where 0x0 is any length.
MaskForScenario1	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario2	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario3	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.



Registry Key	Default Value	Description
MaskForScenario4	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario5	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario6	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
MaskForScenario7	""	A regular expression, up to 26 characters, to filter which barcodes will be edited. See manufacturer's website for details.
ActionListForScenario1		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario2		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario3		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario4		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario5		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario6		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
ActionListForScenario7		A set of instructions, up to 100 characters, to be executed for this scenario. See manufacturer's website for details.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Message format] - Additional information added to barcode data		
MessageFormatSymbologyIdentifier	0x0	Chooses which symbology identifier is inserted before the barcode data. 0 = disabled, 1 = Code Mark, 2 = AIM format, 3 = User Defined.
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Decoding Security] - Decoding Verification		
CenterDecoding	0x0	Only decodes a barcode if it is in the center of the frame.


Registry Key	Default Value	Description
CenterDecodingTolerance	0x0	Amount of tolerance for what is considered the "center". Range is 0x0 - 0x64 (0 to 100), where "0x0" is the least tolerant (must be aimed exactly).
[HKEY_LOCAL_MACHINE\Software\Vocollect\Imager\Imager] - Imager Configuration		
DecodeMode	0x1	Decoding mode, where 0 = linear imager emulation, and 1 = 2D imager.
AimerFlashing	0x1	Aimer mode, where 0 = on, 1 = decode optimized (flashing at frame rate), and 2 = off.
Initial1DSearchArea	0x0	For 1D barcodes, sets the initial search area. 0 = center, 1 = upper half, 2 = lower half, 3 = full, 4 = "smart raster" (better for non-horizontal).
DPMMode	0x0	Enhances the ability to read a DPM (Direct Product Marking) barcode where the barcode is marked directly on the product.
Damaged1DCodes	0x0	Enhances the ability to read damaged or badly printed 1D barcodes.
ExtensiveBarcodeSearch	0x0	The decoding algorithms spend more time trying to find a barcode.

# Appendix D

## Template Training Options

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All new operators must train their voice templates (all the words that he or she will use in the voice-directed workflow) in order to perform a task with the Vocollect Voice system. Supervisors have options for operators to train templates when using a device.

 **Note:** Always speak in your normal tone of voice when training templates.

### Training with the Talkman Device Only

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Your supervisor must set up the system to use the voice-only option for creating templates with a handheld device.

1. Turn your device on by pressing the Play/Pause button.  
The LED indicator turns red for a few moments then turns green. The device says, "Please keep quiet for a few seconds." After a pause, the device says, "Please say zero."
2. Say "Zero."  
The device says "One."
3. Say "One."  
The device says, "Two."
4. Say "Two."  
The device says, "Please say the following words..."
5. As the device says each word, say it back to the device. The device will prompt you with the same word at least four times; repeat the word each time it asks. If it prompts you for phrases, say the phrase naturally, without pauses between the words.

When the device has asked for all words in the task the necessary number of times, the device will say, "Creating voice templates. Please wait." It will then beep periodically until all of the remaining voice templates have been created. When the remaining voice templates have been created, the device says, "Finished creating voice templates." The device then goes to sleep. You can begin the task by pressing the Play/Pause button.

This process can be improved when used in conjunction with the section "Training Using a Printed List of Words" as found below.

## Visual Training Devices



Figure 20: Pidion BM-170 and QTERM-G55

- Visual training devices enable operators to read the words that they need to say during the enrollment training process.
- Vocollect recommends using a browser-based mobile display with Talkman A500 or A700 devices, and the QTERM-G55 with Talkman T5 or T2x devices.
- These devices have a liquid-crystal screen that displays words that an operator needs to train. Operators are more likely to speak in their normal conversational tone when reading the words than when hearing the device say the words during training.
- Vocollect provides a cable with a connector so that the QTERM device can be attached to the red port on the device.
- Supporting documentation and software for the QTERM visual training device is available for free download on the manufacturer's website. Please refer to this site for all supplemental product information such as the user manual, specifications, data sheet, tutorials, and accompanying software.

**Note:** In order to use QTERM devices with a Thai TTS, you must use a QTERM-G55 running device software version 3.1 or newer. After connecting the QTERM, verify you have the correct software by checking debug logs for the message "TRAIN DEVICE: Device query detected training device G55 using v3.1." If you do not see this message, you do not have the correct software, and you must obtain it to use the device with a Thai TTS.

### Setting Up the QTERM Visual Training Device

1. Verify that the training device is set up properly. Refer to the instructions that QSI or your reseller provided with the training device for more information.
2. Connect the training device to the device using the cable provided.
3. In the *task name.vcf* file, set the configurable parameter `TrainDevicePort = Red` to turn on the training device port.
4. Reload the task onto the device.  
If the training device does not work after a task load, power the Talkman device off, then power it on again.

### Configuring the QTERM Visual Training Device

**Note:** You cannot change the default baud rate for the QTERM training device setting of 9600 for versions of VoiceClient 1.x or 3.x.


1. Verify that the task is loaded onto the device.
2. Verify that the device is sleeping.
3. Verify that the training device is connected to the device.

4. On the training device, press and hold the 1 key.
5. Still holding the 1 key, press the device's yellow play/pause button.
6. Contrast appears on the training device screen.
7. On the training device, press:
  - 1 to increase the contrast
  - 2 to decrease the contrast
  - 3 to accept the current setting

After you press 3, Baud Rate appears on the training device screen.
8. On the training device, press 1 until a baud rate of 9600 appears on the screen.
9. Press 3 to accept the baud rate setting.  
Bits appears on the training screen.
10. On the training device, press 3 to accept 8 as the bits setting.  
Parity appears on the training screen.
11. On the training device, press 3 to accept "n" (None) as the parity setting.  
Stop Bits appears on the training device screen.
12. On the training device, press 3 to accept 1 as the stop bits setting.
13. On the Talkman device, press the yellow play/pause button to turn the device on.  
The device will take a background noise sample and begin training.

## Training Using a Visual Training Device

Vocollect recommends using a browser-based mobile display with Talkman A500 or A700 devices, and the QTERM-G55 with Talkman T5 or T2x devices.

 **Note:** In order to use QTERM devices with a Thai TTS, you must use a QTERM-G55 running device software version 3.1 or newer. After connecting the QTERM, verify you have the correct software by checking debug logs for the message "TRAIN DEVICE: Device query detected training device G55 using v3.1." If you do not see this message, you do not have the correct software, and you must obtain it to use the device with a Thai TTS.

1. Be sure the training device is configured.
2. Connect the training device to your Talkman device.
3. Turn your Talkman device on by pressing the Play/Pause button.

The LED indicator turns red for a few moments then turns green. The training device displays, "Please keep quiet for a few seconds."

 **Note:**

- If your device does not say this, press the Operator button to manually perform a background noise sample.
- If you cannot see words displayed on the training device screen, there may be a problem with the contrast on the device. Refer to the manufacturer's documentation.

The Talkman device says and the training device displays, "Please say zero."

4. Say "Zero."  
The Talkman device says and the training device displays, "One."
5. Say "One."  
The Talkman device says and the training device displays, "Two."
6. Say "Two."  
The Talkman device says, "Please say the following words as they appear on the screen."

The Talkman device stops speaking and words to train are only displayed on the screen. Speak the words as they appear on the device display. Words appear in random order and are repeated at least four times to get an accurate recording of how you speak the words. If it prompts you for phrases, say the phrase naturally, without exaggerated pauses between the words.

When the device has asked for all words in the task the necessary number of times, the device will say, "Creating voice templates. Please wait." It will then beep periodically until all of the remaining voice templates have been created.


During the beeping, the device periodically repeats the "... Please wait" phrase to alert the user that it is still busy. When the remaining voice templates have been created, the device says, "Finished creating voice templates." The device then goes to sleep. You can begin the task by pressing the Play/Pause button.

You can expect the device to beep for approximately two minutes after all of the vocabulary words have been spoken. If the operator presses any of the device's buttons during this time period, the device says, "Creating voice templates. Please wait."

Disconnect the training device and begin your task by pressing the Play/Pause button.

## Training through VoiceConsole's Display

---


 **Note:** Supported when using VoiceConsole 3.0 or newer with VoiceClient 3.5 and newer and VoiceCatalyst MP 1.0 and newer.

You can view the words the device asks you to train on a computer screen, through the user interface, or pocket PC device screen as you go through the training process. See Viewing Dialog Between a Device and an Operator in the VoiceConsole online help for more information.

## Training Using a Printed List of Words

---

If you suspect operators may have a difficult time recognizing the words the device is speaking during training, you can create a print out of the words used in the task that the device will ask the operators to train.

 **Note:** This method is supported when using VoiceConsole 3.1 or newer.

1. If a current operator has previously performed the task the new operator is going to use, go to VoiceConsole and perform the steps for viewing an operator's voice templates using the current operator. See Managing Operator Numbers in the VoiceConsole online help for more information.
2. On the Manage Operator Templates:<operator name> page in VoiceConsole, print the list of trained words. See Viewing Printable Versions of List Data in the VoiceConsole online help.
3. If necessary, on the printed list, circle commonly misheard or confusing words.

Vocabulary Word	Size (Bytes)	Version	Last Trained
all	2053	T-Series v.2	4/9/10 3:14:43 PM EDT
backup	2203	T-Series v.1	6/18/10 11:26:51 AM EDT
black	1818	T-Series v.1	6/18/10 11:26:43 AM EDT
cancel	2124	T-Series v.2	4/9/10 3:14:42 PM EDT
continue	2205	T-Series v.1	6/18/10 11:26:31 AM EDT
current	2261	T-Series v.2	4/9/10 3:14:42 PM EDT
description	2809	T-Series v.2	4/9/10 3:14:42 PM EDT
down	1817	T-Series v.1	6/18/10 11:26:49 AM EDT
down	2122	T-Series v.2	6/17/10 3:15:37 PM EDT
erase	2074	T-Series v.1	6/18/10 11:26:55 AM EDT
exit	2190	T-Series v.2	6/7/10 9:25:48 AM EDT
help	1881	T-Series v.1	6/18/10 11:26:48 AM EDT
item	2054	T-Series v.2	4/9/10 3:14:42 PM EDT
license	2397	T-Series v.2	4/9/10 3:14:42 PM EDT
none	1817	T-Series v.1	6/18/10 11:26:50 AM EDT
partial	2057	T-Series v.2	4/9/10 3:14:43 PM EDT
repeat	2042	T-Series v.2	6/18/10 10:18:34 AM EDT
sleep	2123	T-Series v.2	4/9/10 3:14:42 PM EDT
yes	2257	T-Series v.2	4/9/10 3:14:43 PM EDT

**Figure 21: Printed List with Commonly Misheard or Confusing Words Circled**

4. Vocollect recommends the new operator review the list prior to training so he or she is familiar with the words that will be used

If templates have not been trained for the task the new operator is going to use, have the supervisor or current operator train templates for that task and perform the steps above. To proceed with the actual training, follow the detailed list of instructions in the “Training with the Talkman Only” section above.





# Appendix E

## Compliance

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This appendix contains the regulatory compliance information for Vocollect products.

### 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 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.

#### RF Exposure Statement

**Warning:** Vocollect Wireless products comply with International Commission on Non-Ionizing Radiation Protection (ICNIRP), IEEE C95.1, Federal Communications Commission Office of Engineering and Technology (OET) Bulletin 65, Canada RSS-102, and European Committee for Electrotechnical Standardization (CENELEC) limits for exposure to radio frequency (RF) radiation.

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

- The following devices each contain an internal low-power radio: Talkman™ devices and SRX/SRX2 Wireless Headset.
- The radiated output power of Vocollect™ devices and headsets is far below the FCC/IC/EU 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.

- Operation of this device in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.
- Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250–5350 MHz and 5650–5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

 **Avertissement:**

Exposition aux radiations de fréquences radio.

- Les appareils suivants contiennent chacun une radio de faible puissance interne: Talkman dispositifs et casque sans fil SRX/SRX2.
- La puissance de rayonnement des appareils de Vocollect et casques est bien inférieure aux limites d'exposition aux fréquences radio de la FCC/IC/EU.
- Néanmoins, les dispositifs Vocollect doivent être utilisés de telle sorte que le potentiel pour le contact humain avec l'antenne de la radio pendant le fonctionnement normal est réduit au minimum. L'appareil ne doit pas être utilisé si le boîtier est ouvert ou si l'antenne interne est exposée. Lorsqu'il n'est pas utilisé, les dispositifs de Vocollect doivent être éteints. En outre, l'appareil doit être porté en conformité avec les instructions pour cet appareil.
- L'utilisation de ce périphérique dans la bande de fréquences 5150–5250 MHz est seulement possible en intérieur afin de réduire d'éventuelles interférences avec le canal commun des systèmes mobiles par satellite.
- Les utilisateurs devraient également être avertis que les radars de grande puissance sont désignés utilisateurs principaux (utilisateur prioritaires) des bandes de fréquences 5250–5350 MHz et 5650–5850 MHz et que ces radars peuvent provoquer des interférences et/ou endommager les périphériques LE-LAN.

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	
Appareil de Vocollect	Fabricant de la carte et P/N			La valeur maximale	
				1 gm avg.	10 gm avg.
A710 Model: TAP910-01	LSR TiWi5 CSR BlueCore6	MQO-TAP900-01	2570A-TAP90001	0.47	0.75
A720 Model: TAP920-01	NXP PN544 C3			0.54	1.00
A730 Model: TAP930-01				0.47	0.66

### Canadian Compliance

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### Cumplimiento de normas mexicana

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

### 日本の準拠 (Japanese Compliance)

TT-910/TAP910-01	TT-920/TAP920-01	TT-930/TAP930-01
<p>Part: TT-910      <b>A710</b>      Model: TAP910-01</p> <p> 003-140090</p> <p>5GHz (W52/W53) band: Indoor use only</p> <p>MIC/KS      総務省指定 第 AC - 14053 号</p>	<p>Part: TT-920      <b>A720</b>      Model: TAP920-01</p> <p> 003-140101</p> <p>5GHz (W52/W53) band: Indoor use only</p> <p>MIC/KS      総務省指定 第 AC - 14054 号</p>	<p>Part: TT-930      <b>A730</b>      Model: TAP930-01</p> <p> 003-140102</p> <p>5GHz (W52/W53) band: Indoor use only</p> <p>MIC/KS      総務省指定 第 AC - 14055 号</p>

### Conformidade brasileiro



Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo e não pode causar interferência a sistemas operando em caráter primário.

O mesmo atende aos limites da Taxa de Absorção Específica referente à exposição a campos elétricos, magnéticos e eletromagnéticos de radiofrequências adotados pela ANATEL.

## الإمارا العربية المتحدة الامتثال

## (Compliance with United Arab Emirates)

SRX2 القطعة (Part): HD-1000-101 موديل (Model): HBT1000-1	A710 القطعة (Part): TT-910 موديل (Model): TAP910-01	A720 القطعة (Part): TT-920 موديل (Model): TAP920-01	A730 القطعة (Part): TT-930 موديل (Model): TAP930-01
هيئة تنظيم الاتصالات تسجيل رقم: (TRA REGISTERED NO.) ER0130663/14 موزع رقم: (DEALER NO.) DA013420/14	هيئة تنظيم الاتصالات تسجيل رقم: (TRA REGISTERED NO.) ER0132548/14 موزع رقم: (DEALER NO.) DA0127420/14	هيئة تنظيم الاتصالات تسجيل رقم: (TRA REGISTERED NO.) ER0132554/14 موزع رقم: (DEALER NO.) DA0127420/14	هيئة تنظيم الاتصالات تسجيل رقم: (TRA REGISTERED NO.) ER0132542/14 موزع رقم: (DEALER NO.) DA0127420/14

## Маркировка EAC и соблюдение Российские нормативов (Russian Compliance)

Предназначенная для продажи в России, Казахстана и Беларуси продукция маркирована специальным образом (знак EAC), что указывает на соответствие Таможенный союза требованиям и нормам. Поправки и дополнения к этим требованиям и нормам также учтены.

(Products intended for sale in Russia, Kazakhstan, and Belarus are labeled with the EAC mark, which indicates compliance with the Customs Union requirements and standards. Amendments to these requirements and standards are included.)

Модель (Model)	Инвентарного номера (Part Number)	Номер модели (Model Number)
Голос устройство Vocollect A700 Series	TT-910	TAP910-01
Зарядное устройства для A700 в устройстве (A700 Device Charger)	CM-901	TCH901-01
Зарядное устройства для A700 в батарей (A700 Battery Charger)	CM-902	TCH902-01
<b>EAC</b>	Made in USA, страна производства США Ratings (voltage), Напряжение : 100-240V ~ 2A, 50/60Hz	
Представитель в РФ: ЗАО «Хоневелл», 121059, г. Москва, ул. Киевская, 7 Compliance agent: ZAO Honeywell, 121059, Moscow, Kievskaya str. 7		


Модель (Model)	Инвентарного номера (Part Number)	Номер модели (Model Number)
Голос устройство Vocollect A700 Series	TT-920	TAP920-01
Зарядное устройства для A700 в устройстве (A700 Device Charger)	CM-901	TCH901-01
Зарядное устройства для A700 в батарей (A700 Battery Charger)	CM-902	TCH902-01
<b>EAC</b>	Made in USA, страна производства США	

Модель (Model)	Инвентарного номера (Part Number)	Номер модели (Model Number)
	Ratings (voltage), Напряжение : 100-240V ~ 2A, 50/60Hz	
Представитель в РФ: ЗАО «Хоневелл», 121059, г. Москва, ул. Киевская, 7 Compliance agent: ZAO Honeywell, 121059, Moscow, Kievskaya str. 7		

Модель (Model)	Инвентарного номера (Part Number)	Номер модели (Model Number)
Голос устройство Vocollect A700 Series	TT-930	TAP930-01
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Зарядное устройства для A700 в батарее (A700 Battery Charger)	CM-902	TCH902-01
	Made in USA, страна производства США Ratings (voltage), Напряжение : 100-240V ~ 2A, 50/60Hz	
Представитель в РФ: ЗАО «Хоневелл», 121059, г. Москва, ул. Киевская, 7 Compliance agent: ZAO Honeywell, 121059, Moscow, Kievskaya str. 7		

### 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.

Model Name	Part Number	Model Number
A710	TT-910	TAP910-01
A720	TT-920	TAP920-01
A730	TT-930	TAP930-01
	This wireless device operates in the 2.4 GHz, 5 GHz, and 13.56 MHz frequency bands and is intended for light industrial use in all EU and EFTA member states. See restrictions below.	
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.		
In order to ensure compliance with the latest European standards, VoiceCatalyst 2.1.1 or newer or VoiceClient 3.9.1 or newer voice software must be loaded on A700 devices.		

## 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



## For Users in the U.S.A. and Canada

### Laser Compliance and Precaution

The A730 is registered with the CDRH as a Class 2 Laser Product (21 CFR Subchapter J, Part 1040). This product has a maximum output of 1 mW at 630-680 nm.

**Caution:** There are no user serviceable parts inside the A700. Use of controls or adjustments, or performance of procedures other than those specified herein, may result in hazardous laser light exposure of up to 1 mW at 630-680 nm.

**Note:** There are no controls or adjustments provided for routine operation or maintenance of the A730.



### Imager Compliance and Precaution

LED Safety - The scan engine in the A730 complies with IEC 62471:2006-07.

The scan engine in A730 is classified as Risk Group 1.

- Exempt (No photobiological hazards based on the limits defined in the standard)
- Risk Group 1 (Low-Risk – does not pose a hazard based on normal behavioral limitations on exposure)
- Risk Group 2 (Moderate-Risk – does not pose a serious risk due to the aversion response to very bright light sources or due to thermal discomfort)

## For Users in Europe

### Imager Compliance and Precaution

LASER Safety - The scan engine in the A730 complies with IEC 60825-1:2007 / EN 60825-1:2008-05: Class 2 (1 mW, 630-680 nm).

LED Safety - The scan engine in the A730 complies with IEC 62471:2006-07 / EN 62471:2008

The scan engine in the A730 is classified as Risk Group 1.

- Exempt (No photobiological hazards based on the limits defined in the standard)
- Risk Group 1 (Low-Risk – does not pose a hazard based on normal behavioral limitations to exposure)
- Risk Group 2 (Moderate-Risk – does not pose a serious risk due to the aversion response to very bright light sources or due to thermal discomfort)

## **Declaration of Conformity: RoHS**

### **Directive 2011/65/EU of the European Parliament and Council of 8 June 2011**

#### **Restriction of Hazardous Substances (RoHS)**

Products Manufactured by Vocollect™

All Vocollect manufactured products shipped by Vocollect as of 1 January 2012 to destinations where the DIRECTIVE 2011/65/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 (RoHS 2) 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 January 2012 to destinations where the DIRECTIVE 2011/65/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 (RoHS 2) 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.





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