Honeywell

VX6

Vehicle-Mount Computer

Microsoft® Windows® CE 5 Operating System

User's Guide

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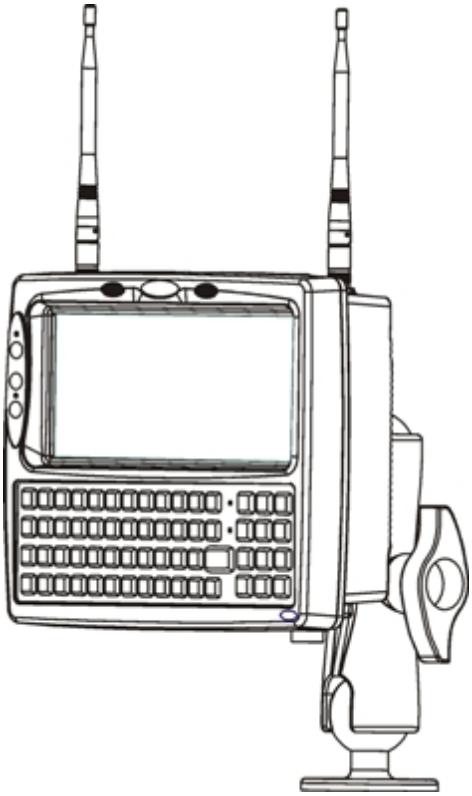
Chapter 1: Introduction



The VX6 Vehicle Mount Computer (VMC) is a rugged, vehicle mounted, PC (Personal Computer) capable of wireless data communications from a fork-lift truck or any properly configured vehicle.

The optional Bluetooth® module supports Bluetooth printers and scanners. The VX6 provides the power and functionality of a desktop computer in a vehicle mounted unit, with a wide range of options.

Contact Technical Assistance for information on the latest upgrades for your VX6.

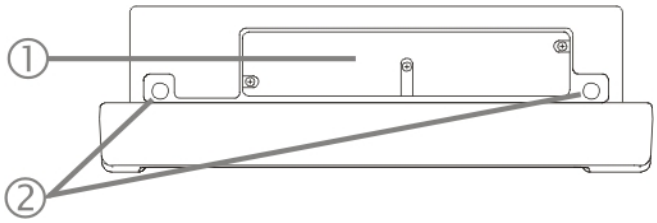
About this Guide

This VX6 User's Guide provides instruction for the end-user or system administrator to follow when setting up a new VX6.

This user's guide has been developed for a VX6 with a Microsoft® Windows® CE 5 operating system.

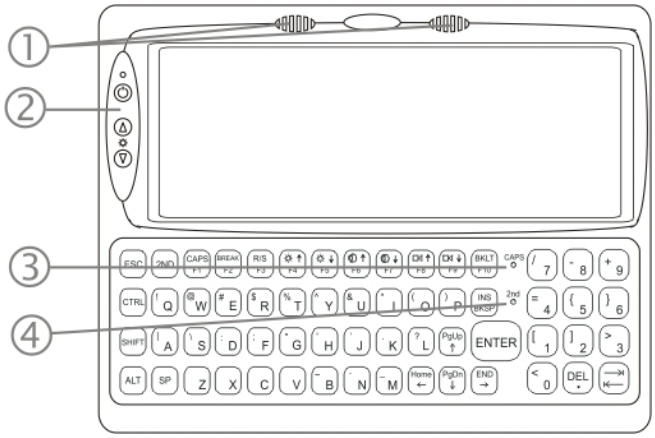
Components

Top View



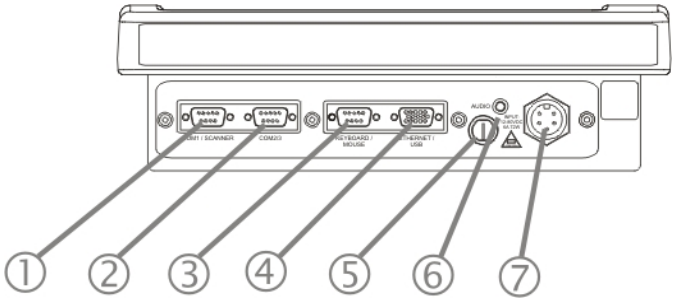
1. Access Panel Cover
2. Antenna Connectors or Hole Plugs

Front View



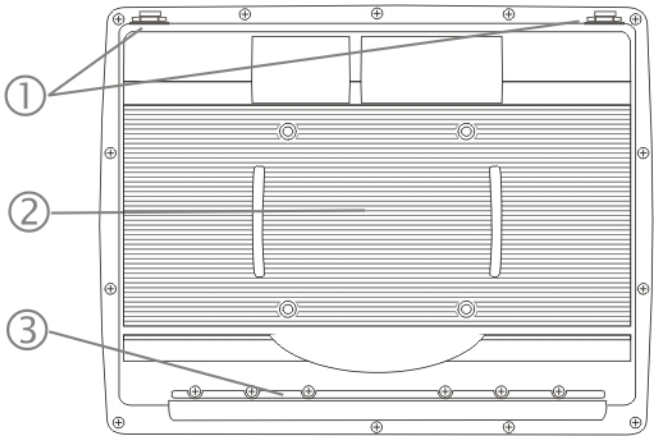
1. Speakers
2. Control Panel
3. 2nd Indicator
4. Caps Lock Indicator

Bottom View



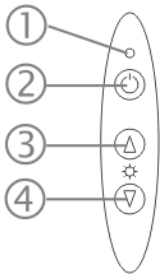
1. COM1/Scanner Connector
2. COM3 Connector
3. Keyboard/Mouse Connector (Not Used)
4. Ethernet/USB Cable Connector (USB-Host and USB-Client)
5. Fuse
6. Audio Connector
7. Power Cable Connector

Back View



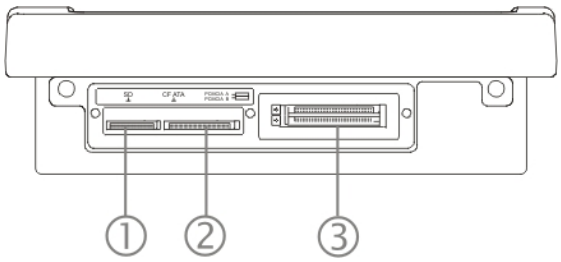
1. Antenna Connectors
2. Bracket Mounting Area
3. Strain Relief Bracket and Screws

Control Panel



1. Status / Power LED
2. Power Switch
3. Brightness Increase
4. Brightness Decrease

Access Panel



Note: Access Panel cover not shown.

1. SD Memory Card Slot
2. Compact Flash Hard Drive
3. PCMCIA Slots

Chapter 2: Set Up A New VX6

This page lists a quick outline of the steps you might take when setting up a new VX6. More instruction for each step is listed later in this guide. Please refer to the *VX6 Reference Guide* for additional information and instruction.

Contact Technical Assistance if you need additional help.

Note: Installing or removing accessories should be performed on a clean, well-lit surface. When necessary, protect the work surface, the VX6, and components from electrostatic discharge.

Hardware Setup

1. Connect accessories.
2. Connect cables.
3. Connect power cable.
4. Secure all cables to the VX6 with the Strain Relief Cable Clamps.
5. Press the Power key.

Software Setup

Prerequisite: Hardware setup is complete.

1. Calibrate Touch screen
2. Adjust Speaker Volume
3. Pair Bluetooth devices
4. Setup Wireless client parameters
5. Setup terminal emulation parameters
6. Save changed settings to the registry
7. Setup the AppLock parameters
8. Set the Scanner Wedge parameters

Please refer to the *VX6 Reference Guide* for additional information and instruction.

End User License Agreement (EULA)

When a new VX6 starts up a EULA is displayed on the touch screen. It remains on the screen until the Accept or Decline button is tapped with a stylus.

Tap the Accept button to accept the EULA terms and the VX6 continues the startup process. The EULA is not presented to the user again.

Tap the Decline button to decline the EULA and the VX6 will reboot. It will continue to reboot until the Accept button is tapped with the stylus.

Note: The EULA will be presented after any operating system upgrade or re-installation, including language-specific operating systems.

Backlights and Indicators

System Status LED

The LED above the power button indicates the status of the VX6.

- Off - The VX6 is Off.
- Green - Running on 12V – 80V power input
- Solid Yellow - Running on UPS battery, battery is not low on power
- Flashing Yellow - Running on UPS battery, battery is critically low.

Keyboard LEDs

The VX6 has two keyboard LEDs located above the Enter key and between the alpha keypad and the numerical keypad.

CAPS LED

This LED indicates the state of the keyboard CapsLock mode. If CapsLock is enabled this LED is illuminated green. When CapsLock is off, the LED is dark.

Press <2nd> then <F1> to toggle CapsLock On and Off. The default value of CapsLock is “Off”.

Secondary Keys LED

The keyboard is equipped with several secondary keys. These keys are identified by the superscripted text found on the keyboard keys. The secondary keys are accessible by using two keystrokes: the <2nd> key followed by the superscripted key.

Once the <2nd> state is enabled (by pressing the <2nd> key) the Secondary Mode LED is illuminated and the <2nd> state is enabled until another key is pressed.

The <2nd> key is toggled on with a <2nd> keypress and then immediately off with another <2nd> keypress.

For example:

- Press <2nd> and <F1> to turn CapsLock on and off.
- Press <2nd> and <↑> to initiate the PgUp command.
- Press <2nd> and <Q> to type the “!” key.
- Press <2nd> and <BkSp> to enter the Insert (Ins) mode.

Tapping the Touch Screen with a Stylus

Note: Always use the point of the stylus for tapping or making strokes on the touch screen.

Never use an actual pen, pencil, or sharp/abrasive object to write on the touch screen.

Hold the stylus as if it were a pen or pencil. Touch an element on the screen with the tip of the stylus then remove the stylus from the screen.

Firmly press the stylus into the stylus holder when the stylus is not in use.

Using a stylus is similar to moving the mouse pointer then left-clicking icons on a desktop computer screen.

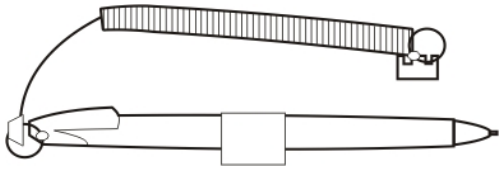
Using the stylus to tap icons on the touch screen is the basic action that can:

- Open applications
- Choose menu commands
- Select options in dialog boxes or drop-down boxes
- Drag the slider in a scroll bar
- Select text by dragging the stylus across the text
- Place the cursor in a text box prior to typing in data
- Place the cursor in a text box prior to retrieving data using a scanner/imager or an input/output device connected to a serial port.

A right-click can be simulated by touching the touch screen with the stylus and holding it for a short time.

A stylus replacement kit is available.

Attach Stylus Tether and Sleeve



The stylus kit includes the stylus, tether and sleeves. The tether allows the stylus to be mounted to the VX6 and the sleeve provides storage for the stylus when not in use.

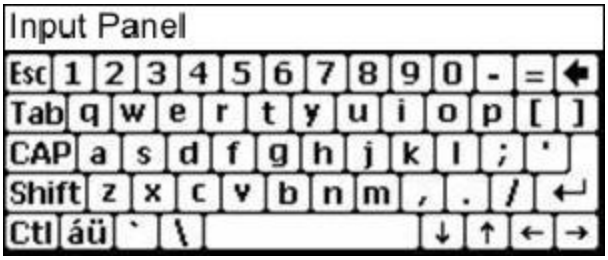
Determine a convenient location for the stylus sleeve.

Locate the most convenient tether mounting hole on the top of the VX6. Slide the clip end of the stylus tether into the tether mounting hole.

Remove the paper backing from the stylus clip.

Apply the adhesive backed closed loop strip to the VX6 or mounting bracket. Press the hook strip on the elastic stylus sleeve to the loop strip.

Using the Input Panel / Virtual Keyboard



The virtual keyboard is always available when needed e.g., text entry.

Place the cursor in the text entry field and, using the stylus:

- Tap the Shift key to type one capital letter.
- Tap the CAPS key to type all capital letters.
- Tap the áü key to access symbols.

Some applications do not automatically display the Input Panel. In this case, do the following to use the Input Panel:

Input Panel icon in the taskbar

Keyboard icon in the taskbar

- Tap the Input Panel or Keyboard icon in the taskbar.
- Select **Keyboard** from the menu.
- Move the cursor into the text entry field when you want to enter data using the Input Panel.

When finished entering data, tap the icon in the Taskbar again. Select **Hide Input Panel**.

Touch Screen

Calibrating the Touch Screen

If the touch screen is not responding properly to stylus taps, you may need to recalibrate the touch screen.

Recalibration involves tapping the center of a target. If you miss the center, keep the stylus on the screen, slide it over the target's center, and then lift the stylus.

To recalibrate the screen, select **Start > Settings > Control Panel > Stylus > Calibration** tab.

To begin, tap the Recalibrate button on the screen with the stylus.

Follow the instructions on the screen and press the Enter key to save the new calibration settings or press Esc to cancel or quit.

Adjusting the Display Backlight Timer

Start > Settings > Control Panel > Display > Backlight

The backlight settings use the Honeywell set of default timeouts and are synchronized to the User Idle setting in the Schemes tab in the Power control panel.

When the backlight timer expires, the display backlight is dimmed, not turned off. When both checkboxes are unchecked, the backlight never turns off (or dims).

Default values are 3 seconds for Battery, 2 minutes for External and both the check boxes are enabled.

Apply the Touch Screen Protective Film

First, clean the touch screen of fingerprints, lint particles, dust and smudges.

Remove the protective film from its container. Remove any protective backing from the film sheet by lifting the backing from a corner of the film. Discard the backing.

1. Make sure both the touch screen and protective film are clean and dry before installation. Please review Cleaning the Display for instructions on suitable cleaning agents.
2. Center the protective film over the touch screen. The antiglare side must be facing outward. Do not cut or trim the protective film.
3. The protective film is approximately 1/10” (2.54cm) larger than the touch screen at the centers of the edges .
4. Slide the protective film so that one of the edges of the film can be slid between the touch screen and display housing when the protective film is re-centered on the touch screen. Repeat for the other three edges, ensuring the protective film is centered over the touch screen when finished.
5. To remove the protective film, slide the protective film in one direction until the edge clears. Lift up on the edge of the film so it does not slide between the touch screen and display housing when slid back. Repeat until all edges are free and remove the protective film.

Contact Technical Assistance about protective film packs designed specifically for your VX6 touch screen.

Set Date and Time Zone

Tap **Start > Settings > Control Panel > Date/Time** icon or tap the Date/Time in the taskbar.

Set Date, Time, Time Zone, and assign a Daylight Savings location on the VX6 after a warm boot or anytime.

There is very little functional change from standard desktop PC Date/Time Properties options. Adjust the settings and tap the OK button or the Apply button to save changes to the registry. Any changes take effect immediately.

Double-tapping the time displayed in the Taskbar causes the Date/Time Properties screen to appear.

Grab Time Utility

The GrabTime utility can be configured to synchronize the time with a local server during each reboot function.

Tap the Sync button to synchronize date and time with a networked time server. By default, the VX6 operating system first searches for a time server on the local intranet. If not found, it then searches the Internet for a time server. A connection to the Internet is required for this option.

Autolaunch Time-Sync

Start > Settings > Control Panel > VX6 Options > Communication tab

By default, TimeSync does not automatically run on the VX6. To enable TimeSync to run automatically on the VX6 using the GrabTime utility, check this checkbox.

Synchronize with a Local Time Server

By default, GrabTime synchronizes via an Internet connection. To synchronize with a local time server:

1. Use ActiveSync to copy GrabTime.ini from the My Device > Windows folder on the VX6 to the host PC.
2. Edit the copy of GrabTime.ini on the host PC. Add the local time server's domain name to the beginning of the list of servers. You can optionally delete the remainder of the list.
3. Copy the modified GrabTime.ini file to the My Device > System folder on the VX6. The System/GrabTime.ini file takes precedence over the Windows/GrabTime.ini file. System/Grabtime.ini also persists after a coldboot; Windows/Grabtime.ini does not persist.

Adjust Speaker Volume

The VX6 has two speakers, one on either side of the logo at the top of the VX6.

Speaker volume can be adjusted to a comfortable level for the listener by changing parameters in the Volume & Sounds control panel.

The F8 and F9 keys on the VX6 keyboard have no function as the Windows OS controls the sound volume.

Using the Control Panel

Start > Settings > Control Panel > Volume & Sounds > Volume

Change the volume setting and tap OK to save the change.

You can also select / deselect sounds for key clicks and screen taps and whether each is loud or soft.

As the volume scroll bar is moved between Loud and Soft, the VX6 emits a tone each time the volume increases or decreases in decibel range.

Setup Terminal Emulation Parameters

Before you make a host connection, you will, at a minimum, need to know:

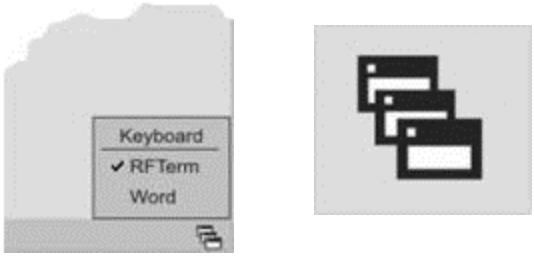
- the alias name or IP address (Host Address) and
- the port number (Telnet Port) of the host system to properly set up your host session.

1. Make sure the mobile client network settings are configured and functional. If you are connecting over wireless LAN (802.11*x*), make sure your mobile client is communicating with the Access Point.
2. From **Start > Program**, run **RFTerm** or tap the RFTerm icon on the desktop.
3. Select **Session > Configure** from the application menu and select the "host type" that you require. This will depend on the type of host system that you are going to connect to; i.e., 3270 mainframe, AS/400 5250 server or VT host.
4. Enter the "Host Address" of the host system that you wish to connect to. This may either be a **DNS name or an IP address of the host** system.
5. Update the **telnet port number**, if your host application is configured to listen on a specific port. If not, just use the default telnet port.
6. Select **OK.**
7. Select **Session > Connect** from the application menu or tap the "Connect" button on the Tool Bar. Upon a successful connection, you should see the host application screen displayed.

To change options such as Display, Colors, Cursor, Bar Code, etc., please refer to these sections in the *RFTerm Reference Guide* for complete descriptions of these and other features.

Using the AppLock Switchpad

*Note: The touch screen must be enabled. Select **Start > Settings > Control Panel > Options > Misc. tab** to verify touch screen status.*



Click the switchpad icon in the taskbar.

A checkmark on the switchpad menu indicates applications currently active or available for Launching by the VX6 user. When Keyboard, on the Switchpad Menu, is selected, the default input method (Input Panel, Transcriber, or custom input method) is activated.

Using the Keypad

One switch key sequence (or hotkey) is defined by the Administrator for the end-user to use when switching between locked applications. This is known as the **Activation key**.

When the switch key sequence is pressed on the keypad, the next application in the AppLock configuration is moved to the foreground and the previous application moves to the background. The previous application continues to run in the background. VX6 key presses affect the application in focus only.

Using the Touch Screen

The figure shown above is an example and is shown only to aid in describing how the user can switch between applications using a stylus.

When the user taps the Switchpad icon with the stylus, a menu pops up listing the applications available to the user. The user can tap an application name in the popup menu and the selected application is brought to the foreground. The previous application continues to run in the background. Stylus taps affect the application in focus only. When the user needs to use the Input Panel, they tap the Keyboard option. Input Panel taps affect the application in focus only.

Connecting Bluetooth Devices

Before connecting to Bluetooth Devices:

- The system administrator has discovered, paired, connected and disconnected (using LXEZ Pairing Control Panel) Bluetooth devices for each VX6.
- The system administrator has enabled and disabled LXEZ Pairing parameters for the VX6.
- The system administrator has also assigned a Computer Friendly Name using LXEZ Pairing Control Panel for the VX6.

To connect Bluetooth devices, the VX6 should be as close as possible and in direct line of sight (distances up to 32.8 feet or 10 meters) with the targeted Bluetooth device during the discovery and pairing process.

If the devices are in Suspend, tap the power key to wake the VX6.

Using the correct procedure, wake the targeted Bluetooth device if necessary.

There may be audible or visual signals as both devices discover and pair with each other.

Taskbar Connection Indicator

	VX6 is connected to one or more of the targeted Bluetooth device(s).
	VX6 is not connected to any Bluetooth device. VX6 is ready to connect with any Bluetooth device. VX6 is out of range of all paired Bluetooth device(s). Connection is inactive.

There may be audible or visual signals from paired devices as they move back into range and re-connect with the Bluetooth hardware in the VX6.

Reboot

When the Windows desktop is displayed or an application begins, the power up (or reboot) sequence is complete.

Warm Boot

Start > Run

The Warm Boot function refreshes the Windows operating system without clearing RAM or deleting installed programs. User-set parameters are unchanged.

Tap **Start > Run** and type WARMBOOT.EXE or WARMBOOT. This command is not case sensitive. Tap the OK button. This process takes less than 15 seconds. Temporary data not saved is lost.

Note: There may be slight delays while the wireless client connects to the network, re-authorization for voice-enabled applications completes, Wavelink Avalanche management of the VX6 startup completes, or Bluetooth relationships establish or re-establish.

Cold Boot

Start > Run

The Cold Boot function reboots the device, erases all registry data, and user-specified settings. The factory default settings are restored when the VX6 powers on again.

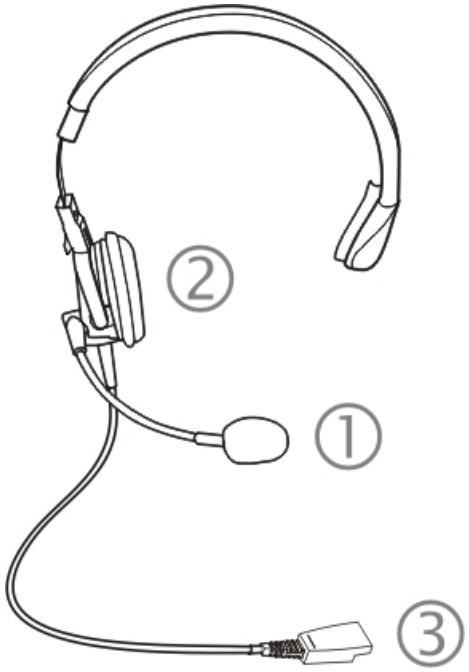
Passwords are lost upon cold boot. If a password is set, that password must be entered to begin the cold boot power cycle process.

Tap **Start > Run** and type COLDBOOT.EXE or COLDBOOT. This command is not case-sensitive[1]. Tap the OK button. This command is located in the \Windows folder.

Note: Because of the extreme nature of cold boot, Honeywell recommends using this command only as an emergency (or when instructed to do so as part of a specific VX6 procedure).

[1] The text typed in the text box can be upper or lower case or a combination of upper and lower case letters.

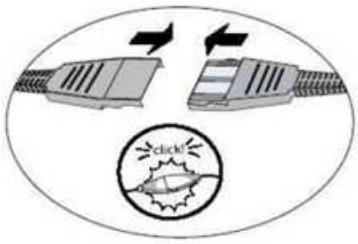
Connecting the Headset Cable



Headset

1. Microphone
2. Headphones
3. Connects to voice cable end of voice cable

Connect the VX6 voice cable I/O connector to the audio port on the VX6. The VX6 internal microphone and speaker are automatically disabled.



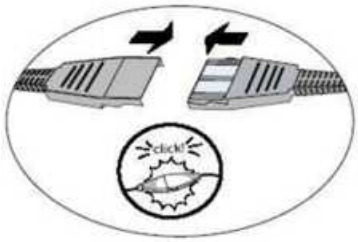
Slide the voice cable ends together until they click shut. Do not twist or bend the connectors.

The VX6 is ready for voice-enabled applications.

Adjust Headset / Microphone and Secure Cable

The headset consists of an earpiece, a microphone, a clothing clip and a cable. The headset attaches to the audio cable end of the voice cable which attaches to the VX6.

Align the audio connector and the headset quick connect cable end. Firmly push the cable ends together until they click and lock in place.



Do not twist the microphone boom when adjusting the microphone. The microphone should be adjusted to be about two finger widths from your mouth.

Make sure the microphone is pointed at your mouth. Note the small “Talk” label near the mouthpiece. Make sure the Talk label is in front of your mouth. The microphone cable can be routed over or under clothing.

Under Clothing

- Leave the cable exposed only at the top of the collar.
- Be sure to leave a small loop of cable to allow movement of your head.

Over Clothing

- Use clothing clips to hold the cable close to your body.
- Tuck the cable under the belt, but leave a small loop where it goes under the belt.
- Do not wear the cable on the front of your body. It may get in your way or get caught on protruding objects.

Cleaning the Touch Screen

Note: These instructions are for components made of glass. If there is a removable protective film sheet on the display, remove the film sheet before cleaning the screen.

Keep fingers and rough or sharp objects away from the bar code reader scanning aperture and the mobile device touch screen.

If the glass becomes soiled or smudged, clean only with a standard household cleaner such as Windex® without vinegar or use Isopropyl Alcohol. Dampen the cloth with the cleaner and then wipe the surface.

Do not use paper towels or harsh-chemical-based cleaning fluids since they may result in damage to the glass surface. Use a clean, damp, lint-free cloth.

Do not scrub optical surfaces. If possible, clean only those areas which are soiled. Lint and particulates can be removed with clean, filtered canned air.

Startup Help

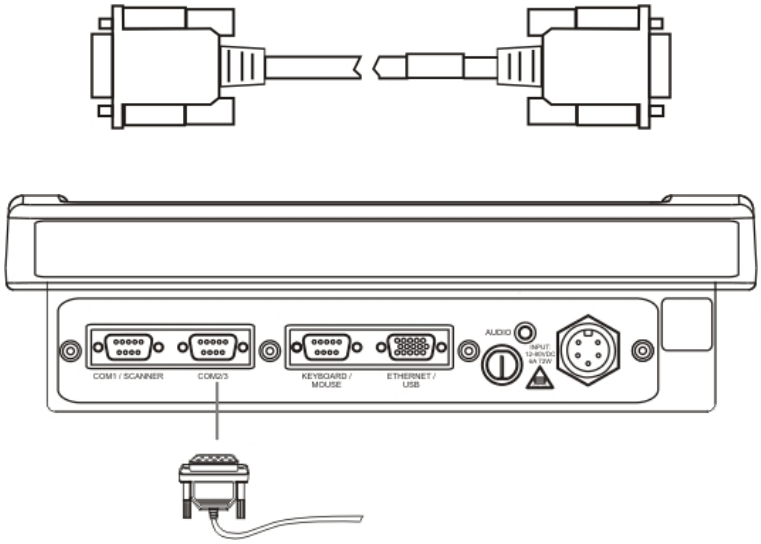
Contact Technical Assistance if you need more help.

Can't change the date/time or adjust the volume.	AppLock is installed and may be running in User Mode on the VX6. AppLock user mode restricts access to the control panels.
Touch screen is not accepting stylus taps or needs recalibration.	See Also: "Calibrating the Touch Screen"when the touch screen needs recalibration, orPress Ctrl+Esc to force the Start Menu to appear. Use the tab, backtab and arrow keys to move the cursor from element to element.
VX6 seems to lockup as soon as it is rebooted.	There may be slight delays while the wireless client connects to the network, authorization for voice-enabled applications complete, Wavelink Avalanche management of the VX6 startup completes,and Bluetooth relationships establish or re-establish. When the desktop appears or an application begins, the VX6 is ready for use.

Chapter 3: Connecting Cables to the VX6

Connect Cable - Serial

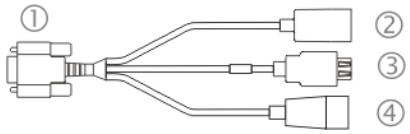
The printer or PC cable requires a nine-pin D-shell female connector for the VX6. The printer or PC cable is attached to the connector labeled COM2/3. Use of a shielded cable is required to maintain FCC and CISPR22 emissions compliance.



1. Seat the cable end connector firmly over the serial COM port on the connector panel.
2. Turn the thumbscrews in a clockwise direction. Do not over tighten.
3. Connect the other cable end to the desired serial device.

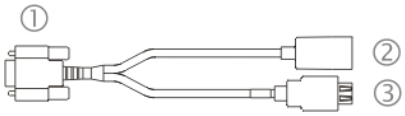
Connecting to USB and Optional Ethernet Ports

An optional Ethernet port and different types of external USB ports are available via a dongle cable attached to the port labeled “ETHERNET/USB”, located on the bottom of the VX6. If the Ethernet option is not ordered, the Ethernet connector on the dongle cable has no function.



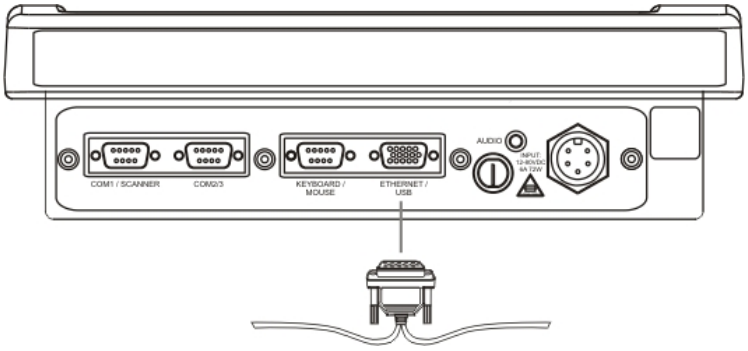
9000075CABLE

1. D15 Connector
2. RJ45 Connector
3. USB-Client Connector (for connecting to a USB host or hub)
4. USB-Host Connector (for connecting to a USB device)



9000052CABLE

1. D15 Connector
2. RJ45 Connector
3. USB-Host Connector (for connecting to a USB device)



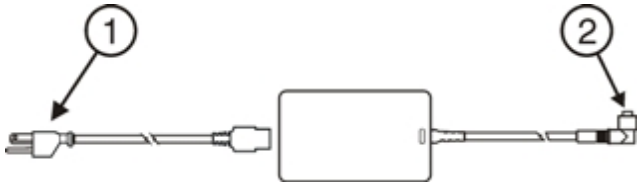
Note: D15 to Ethernet / USB Host cable shown.

1. Power off the VX6 before connecting the D15 connector to the VX6.
2. Insert the D15 end of the Ethernet / USB dongle cable into the VX6 USB connector. Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not over tighten.
3. Use a strain relief clamp to secure the dongle cable.
4. The VX6 may be powered On any time after the D15 connector has been secured to the VX6.
5. To connect a USB device to the VX6: Plug the desired device, such as a USB mouse or external drive, into the USB Host port on the dongle cable . USB devices may be connected/ disconnected without turning off the VX6.
6. To connect the VX6 to a PC: Requires a commercially available USB cable with a type A plug on one end and a type B plug on the other end. Connect this cable to the USB Client port on the dongle cable and to a USB Host port on a PC.
7. To connect the optional network connection: Connect an Ethernet cable into the Adapter cable. Insert the network cable and ensure it is firmly seated in the connector jack.
8. To remove the Ethernet cable, press the release tab on the cable end.

Note: The USB port may be used to connect a USB mouse to the VX6, however the mouse pointer may not always be visible. The mouse pointer reappears on the touch screen when the pointing device is moved.

Connecting an AC/DC Power Supply

Note: The Honeywell-approved AC Power Supply and Adapter Cable are only intended for use in a 25°C (77°F) maximum ambient temperature environment.



1. AC Input Cable (US only)
2. DC Output Cable

In North America, this unit is intended for use with a UL Listed ITE power supply with output rated 12 – 80VDC, minimum 75W. Outside North America, this unit is intended for use with an IEC certified ITE power supply with output rated 12 – 80VDC, minimum 75W.

The external power supply may be connected to either a 120V, 60Hz supply or, outside North America, to a 230V, 50Hz supply, using the appropriate detachable cordset. In all cases, connect to a properly grounded source of supply provided with maximum 15 Amp overcurrent protection (10 Amp for 230V circuits).

1. Turn the VX6 off.
2. Connect the detachable cordset provided by Honeywell (US only, all others must provide their own cable) to the external power supply (IEC 320 connector).
3. Plug cordset into appropriate, grounded, electrical supply receptacle (AC mains).
4. Connect the watertight connector end to the VX6's Power Connector by aligning the connector pins to the power connector; pushing down on the watertight connector and twisting it to fasten securely.
5. Turn the VX6 on.

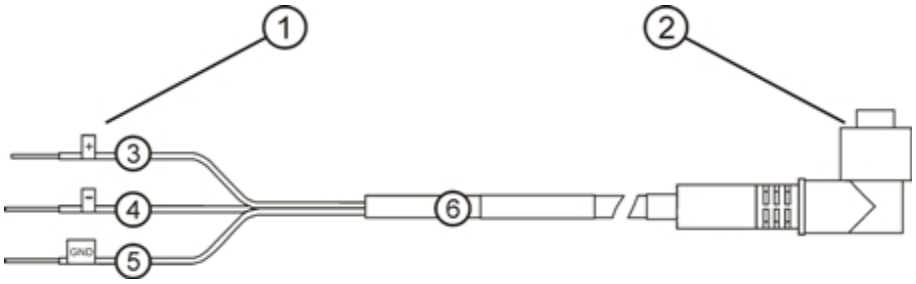
Connecting Vehicle Power

Complete vehicle cradle mounting and power instruction is contained in the *VX6 Vehicle Mounting Reference Guide*.

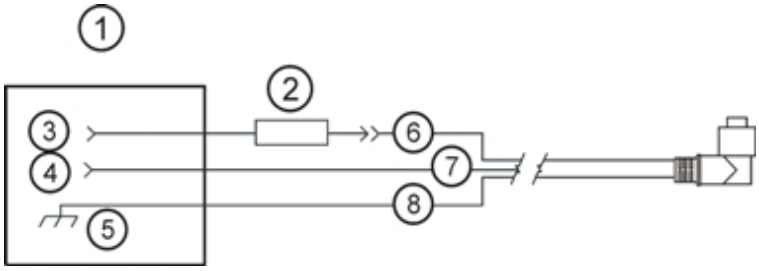
Vehicle 12-80VDC Power Connection Cable

Caution ⚠	For proper and safe installation, the input power cable must be connected to a fused circuit on the vehicle. This fused circuit requires a ten Amp maximum time delay (slow blow) high interrupting rating fuse. If the supply connection is made directly to the battery, the fuse should be installed in the positive lead within 5 inches of the battery positive (+) terminal. Note: For North America, a UL Listed fuse is to be used.
Caution ⚠	For installation by trained service personnel only.
Warning ⚠	Risk of ignition or explosion. Explosive gas mixture may be vented from battery. Work only in well ventilated area. Avoid creating arcs and sparks at battery terminals.

Note: Please see Power Adapter Cable for information on adapting a VX1, VX2 or VX4 DC power supply to the VX6.



1. To Vehicle Battery
2. To Vehicle Mounted Device or UPS Battery Pack
3. White (DC+)
4. Black (DC-)
5. Green (GND)
6. 12 – 80VDC



1. Vehicle Electrical System
2. 10 Amp Slow Blow Fuse
3. DC +
4. DC -
5. Vehicle Chassis
6. White
7. Black
8. Green

Note: Correct electrical polarity is required for safe and proper installation. Connecting the cable to the VX6 with the polarity reversed will cause the VX6 fuse to be blown. See the following figure titled "Vehicle Connection Wiring Color Codes" for additional wire color-coding specifics.

Connect Vehicle 12-80VDC Connection

1. The VX6 must be turned off and the power cable must be UNPLUGGED from the VX6.
2. While observing the fuse requirements specified above, connect the power cable as close as possible to the actual battery terminals of the vehicle. When available, always connect to un-switched terminals in vehicle fuse panel, after providing proper fusing.
   ATTENTION:For uninterrupted power, electrical supply connections should not be made at any point after the ignition switch of the vehicle.
3. Route the power cable the shortest way possible. The cable is rated for a maximum temperature of 105°C (221°F). When routing this cable it should be protected from physical damage and from surfaces that might exceed this temperature.
   Do not expose the cable to chemicals or oil that may cause the wiring insulation to deteriorate.

   If the vehicle is equipped with a panel containing Silicon Controller Rectifiers (SCR's), avoid routing the power cable in close proximity to these devices.

   Always route the cable so that it does not interfere with safe operation and maintenance of the vehicle.

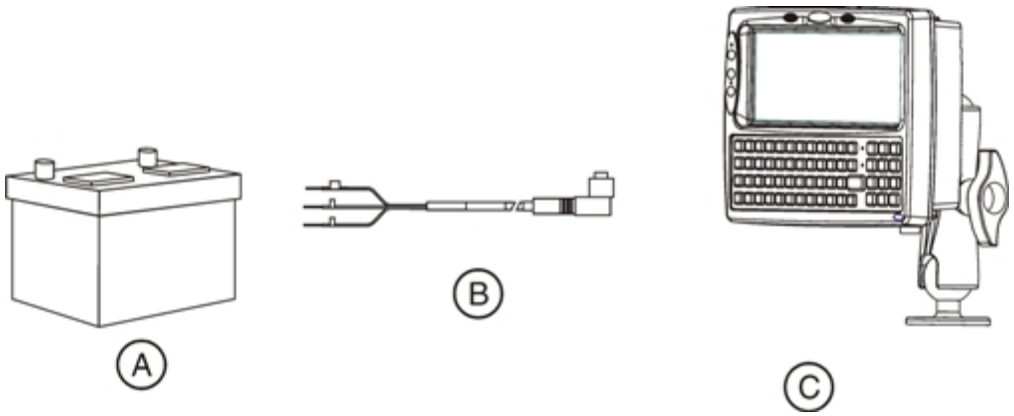
   Use proper electrical and mechanical fastening means for terminating the cable. Properly sized "crimp" type electrical terminals are an accepted method of termination. Please select electrical connectors sized for use with 18AWG ($1mm^2$) conductors.

   Wiring color codes for Honeywell supplied DC input power cabling:

Vehicle Supply	**Wire Color**
+12 - 80VDC (DC +)	White
Return (DC -)	Black
Vehicle Chassis GND	Green

4. Provide mechanical support for the cable by securing it to the vehicle structure at approximately one foot intervals, taking care not to over tighten and pinch conductors or penetrate outer cable jacket.
5. Refer to the following sections to complete the power connection to the VX6.

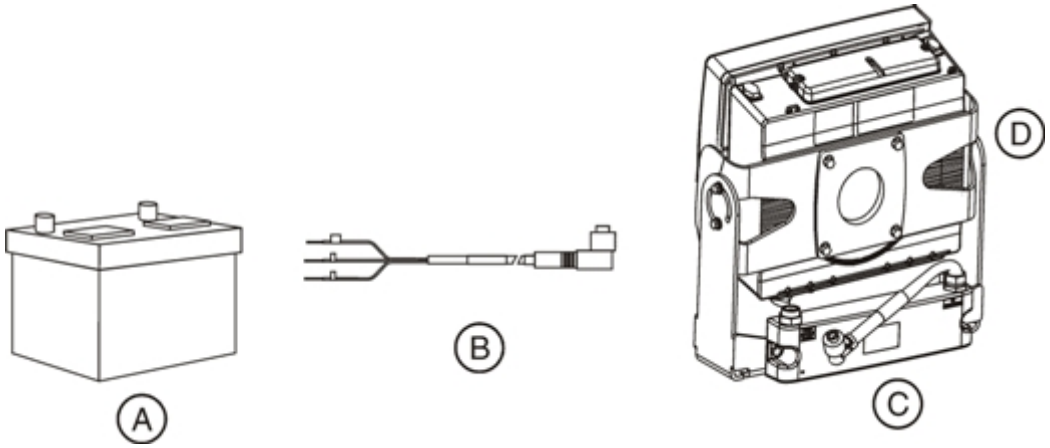
Connect VX6 without a UPS Battery Pack



A. Vehicle Battery
B. Vehicle Power Connection Cable
C. VX6 Computer

1. Connect the power cable to the vehicle's electrical system as described in "Connect Vehicle 12-80VDC Connection".
2. Connect the power cable to the VX6 by aligning the water-tight connector pins to the power connector on the bottom of the VX6; push down on the water-tight connector and twist it to fasten securely.
3. Turn the VX6 on.

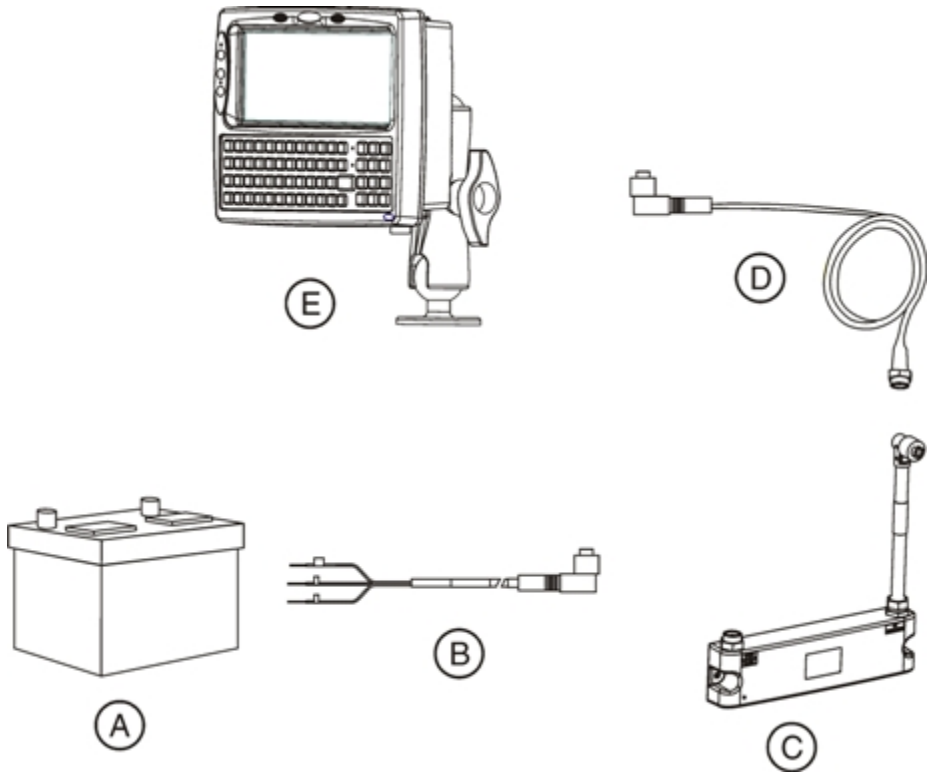
Connect VX6 to an Integrated Mount UPS Battery Pack



A. Vehicle Battery
B. Vehicle Power Connection Cable
C. UPS Battery Pack
D. VX6 Computer

1. Connect the power cable to the vehicle's electrical system as described in Connect Vehicle 12-80VDC Connection.
2. Connect the power cable to the UPS battery pack by aligning the water-tight connector pins to the input connector (labeled "From Vehicle"); push down on the water-tight connector and twist it to fasten securely.
3. Connect the output cable (labeled "To Computer") from the UPS battery pack to the power connector on the bottom of the VX6 by aligning the water-tight connector to the power connector; push down on the water-tight connector and twist it to fasten securely.
4. Turn the VX6 on.

Connect VX6 to a Remotely Mounted UPS Battery Pack



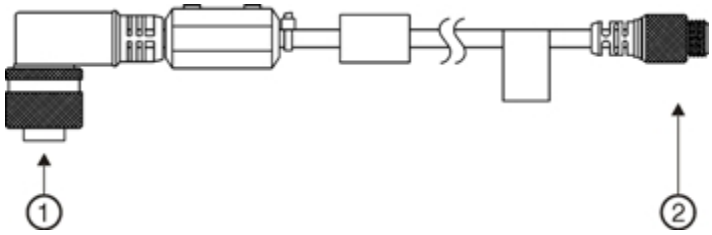
A. Vehicle Battery
B. Vehicle Power Connection Cable
C. UPS Battery Pack
D. Extension Cable
E. VX6 Computer

1. Connect the power cable to the vehicle's electrical system as described in Connect Vehicle 12-80VDC Connection.
2. Connect the power cable to the UPS battery pack by aligning the water-tight connector pins to the input connector (labeled "From Vehicle"); push down on the water-tight connector and twist it to fasten securely.
3. Connect the output cable (labeled "To Computer") from the UPS battery pack to the extension cable by aligning the water-tight connector to the input end of the extension cable; push down on the water-tight connector and twist it to fasten securely.
4. Route the extension cable the shortest way possible. The cable is rated for a maximum temperature of 105°C (221°F). When routing this cable it should be protected from physical damage and from surfaces that might exceed this temperature. Do not expose the cable to chemicals or oil that may cause the wiring insulation to deteriorate. Always route the cable so that it does not interfere with safe operation and maintenance of the vehicle. If the vehicle is equipped with a panel containing Silicon Controller Rectifiers (SCR's), avoid routing the power cable in close proximity to these devices.
5. Provide mechanical support for the cable by securing it to the vehicle structure at approximately one foot intervals, taking care not to over tighten and pinch conductors or penetrate outer cable jacket.

6. Connect the output end of the extension cable to the power connector on the bottom of the VX6 by aligning the water-tight connector to the power connector; push down on the water-tight connector and twist it to fasten securely.
7. Turn the VX6 on.

Power Adapter Cable

Honeywell offers an adapter cable (part no. 9000A077CBLPWRADPTR) to adapt certain VX1, VX2 or VX4 DC power supplies to the VX6. Please read and follow all cautions below to determine if your present power supply can be used with the VX6.



1. VX6 Connector
2. VX1/2/4 Power Supply Connector

Caution: ⚠	This document assumes the VX1/2/4 DC power cable, if applicable, is already properly connected to your vehicle. If this is not the case, please refer to the "VX1 User's Guide", "VX2 User's Guide" or "VX4 User's Guide" for direct vehicle connection details.
Caution: ⚠	For use only with VX1/2/4 DC power cables with yellow colored cable containing 18AWG wires. Do not use this cable with VX1/2/4 DC power cables with gray colored cable containing 22AWG wires. These power cables must be replaced with a VX5/6/7 power cable.
Caution: ⚠	When a DC power cable that is eight feet or longer is in a 12V application, there may be an excessive voltage drop over the longer cable. If this occurs, a new power cable is required.
Caution: ⚠	Do not use this adapter with AC power supplies originally designed for the 1380, 1390, VX1, VX2 or VX4. These power supplies do not have sufficient power for the VX6.

How To Connect Power Adapter Cable

1. The VX6 must be turned off and the power cable must be UNPLUGGED from the VX6
2. Attach the smaller end of the Power Adapter Cable to the VX1/2/4 power cable by aligning the water-tight connector pins to the power cable connector. Push down on the water-tight connector and twist it to fasten securely.
3. Connect the larger end of the Power Cable directly to the VX6 or to a UPS battery pack, as desired. Please refer to the appropriate section (12-80VDC direct, UPS battery pack and extension cable connections) earlier in this manual for UPS battery pack connection details.

Uninterruptible Power Supply Battery Pack

An optional Uninterruptible Power Supply (UPS) battery pack is designed to provide power to the VX6 for short periods of time when vehicle power is unavailable (such as when vehicle batteries are swapped).

Fully charged, the UPS battery pack powers the VX6 for a minimum of 15 minutes at 25º C (77º F) ambient temperature.

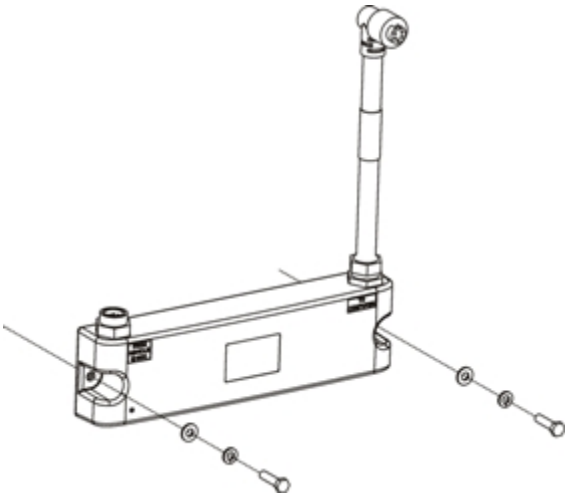
The Power Status LED on the VX6 indicates the UPS battery pack status:

Green	Running on 12V – 80V power input
Solid Yellow	Running on UPS battery pack power, battery is not low on power
Flashing Yellow	Running on UPS battery pack power, battery is critically low

UPS Battery Pack Remote Mounting

The optional UPS battery pack must be mounted remotely when using the RAM mount system or a U-bracket designed for a previous model Honeywell computer. The remote mount can also be used with the VX6 U-bracket assembly if it is not convenient to mount the UPS battery pack to the U-bracket.

A six foot extension cable is available to connect the UPS battery pack to the VX6.

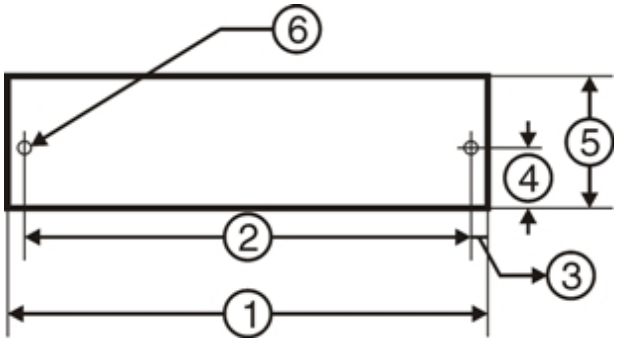


1. Position the UPS battery pack to allow cables to reach the vehicle battery and the VX6.
2. Attach the UPS battery pack to the vehicle mounting surface using two 1/4 bolts, lock washers and flat washers (or equivalent) fasteners.

Note: 1/4 bolts and washers not included.

IMPORTANT:Mount to the most rigid surface available.

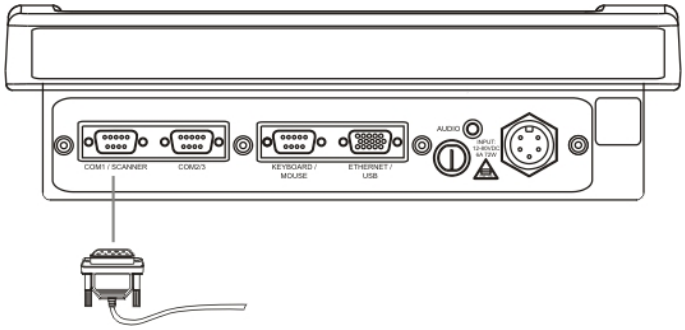
UPS Battery Pack Remote Mounting Dimensions



1. 11.00” / 279.40mm
2. 10.23” / 259.80mm
3. 0.38” / 9.65mm
4. 1.39” / 35.31mm
5. 3.04” / 77.22mm
6. 0.30” / 7.62mm

Connecting a Tethered Scanner

Note: Pin 9 of COM1 must be configured to provide +5V.



The scanner cable is attached to the connector labeled “COM1/SCANNER”.

The tethered scanner receives power from the VX6. The cable requires a nine-pin D-shell female connector for the VX6.

Note: Use of a shielded cable is required to maintain FCC and CISPR22 emissions compliance.

1. Power off the VX6 before connecting the scanner cable to the VX6.
2. Seat the connector firmly over the pins and turn the thumbscrews in a clockwise direction. Do not over over tighten.
3. Use a strain relief clamp to secure the cable.

Press the power button to power up the VX6 and the tethered scanner.

Chapter 4: Product Agency Compliance - VX6

Class A Digital Device

FCC Rules, Part 15

This device complies with FCC Rules, part 15. 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 A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Notice

Changes or modifications made to this equipment not expressly approved by Honeywell may void the FCC authorization to operate this equipment.

Industry Canada

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. 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. Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe A prescrites dans le Réglement sur le brouillage radioélectrique édits par le ministère des Communications du Canada.

EMC Directive Requirements:

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Li-Ion Battery

When disposing of the VX6 main battery, the following precautions should be observed: The battery should be disposed of properly. The battery should not be disassembled or crushed. The battery should not be heated above 212°F (100°C) or incinerated.

RF Notices

This device contains transmitter Module FCC ID: KDZLXE4830P

This device contains transmitter Module FCC ID: KDZLXE4831P

RF Safety Notice

This device is intended to transmit RF energy. For protection against RF exposure to humans and in accordance with FCC rules and Industry Canada rules, this transmitter should be installed such that a minimum separation distance of at least 20 cm (7.8 in.) is maintained between the antenna and the general population. This device is not to be co-located with other transmitters.

Waste Electrical and Electronic Equipment (WEEE)

Important:
This symbol is placed on the product to remind users to dispose of Waste Electrical and Electronic Equipment (WEEE) appropriately, per Directive 2002-96-EC. In most areas, this product can be recycled, reclaimed and re-used when properly discarded. Do not discard labeled units with trash. For information about proper disposal, visit www honeywellaidc com.

R&TTE Directive Requirements

Dealer License - Republic of Singapore

Republic of Singapore - LXE Dealer License Number DA103458 complies with IDA Standards.

Lithium Battery Safety Statement

Caution: Lithium battery inside. Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by battery manufacturer. (US)

Attention: Contient une pile de lithium. Risque d'explosion dans le cas où la pile ne serait pas correctement remplacée. Remplacer uniquement avec une pile semblable ou equivalente au type de pile recommandé par le fabricant. (FR)

Forsigtig: Indeholder lithiumbattterier. Risiko for eksplosion, hvis batteriet udskiftes forkert. Må kun udskiftes med samme eller tilsvarende type, som anbefalet af fabikanten. (DK)

Varoitus: Tämä tuote käyttää laservaloa. Skannerissa on jokin seuraavista tarroista. Lue Huomio-kohta. (FI)

Vorsicht: Enthält Lithium-Batterie. Bei unsachgemäßem Ersatz besteht Explosionsgefahr. Nur durch gleichen oder vom Hersteller empfohlenen Typ ersetzen. (DE)

Attenzione: Batteria al litio. Pericolo di esplosione qualora la batteria venga sostituita in maniera scorretta. Sostituire solo con lo stesso tipo o equivalente consigliato per il fabbricante. (IT)

Atenção: Contém pilha de lítio. Há perigo de explosão no caso de uma substituição incorreta. Substitua somente pelo mesmo tipo, ou equivalente, recomendado pelo fabricante. (PT)

Varning: Innehåller litiumbatteri. Fara för explosion om batteriet är felaktigt placerat eller av fel typ. Använd endast samma eller motsvarande typ batterier rekommenderade av tillverkaren. (SE)

Advarsel: Innmontert Lithium batteri. Eksplosjonsfare ved feil montering av batteri. Benytt kun batteri anbefalt av produsent. (NO)

Cuidado: Pila de litio adentro. Peligro de explosión si la pila se reemplaza incorrectamente. Reemplace solamente con el mismo tipo o equivalente recomendado por el fabricante. (ES)

Oppassen: Bevat Lithium-batterij. Incorrrecte plaatsing van batterij kan leiden tot explosiegevaar. Alleen vervangen door hetzelfde of door fabrikant aanbevolen gelijkwaardig type. (NL)

Προσοχή: Υπάρχει μπαταρία από λίθιο εσωτερικά. Υπάρχει κίνδυνος έκρηξης εάν η μπαταρία αντικατασταθεί με λανθασμένο τρόπο. Αντικαταστήστε μόνο με τον ίδιο ή ισοδύναμο τύπο που συνιστάται από τον κατασκευαστή. (GR)	**주의:** 리튬 배터리 내부. 배터리가 잘못 설치되었을 경우 폭발의 위험이 있습니다. 동일한 배터리, 또는 배터리 제조업체가 권장하는 배터리로 교체하십시오. (KR)
注意: リチウム電池が入っています。間違った種類の電池を使用すると、破裂する恐れがあります。同じ電池、または電池製造元が推奨する同等の電池を使用してください。 (JP)	**小心:** 内装锂电池。如电池更换不当，则有发生爆炸的危险。只能用电池制造商推荐的相同或同等电池进行更换。 (CN)
Dikkat: İçinde lityum bataryası bulunur. Bataryanın yanlış değiştirilmesi patlama tehlikesi yaratır. Aynısıyla veya üreticinin önerdiği eşdeğer tiple değiştirin. (TR)	

Legend: Chinese – CN; Danish – DK; Dutch – NL; English – US; Finnish – FI; French- - FR; German – DE; Greek – GR; Italian – IT; Japanese – JP; Korean – KR; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.

Vehicle Power Supply Connection Safety Statement

Vehicle Power Supply Connection: If the supply connection is made directly to the battery, a 10A slow-blow fuse should be installed in the positive lead within 5 inches (12.7 cm.) of the battery positive (+) terminal. (US)

Raccordement de l'alimentation du véhicule Si l'alimentation est raccordée directement à la batterie, un fusible à action retardée de 10A doit être installé sur le câble positif à moins de 12,7 cm de la borne positive (+) de la batterie. (FR)

EL forsyning af køretøjet. Er forsyningsforbindelsen direkte tilknyttet til batteriet og og tilsluttet til den positive part indenfor 12,7 cm (+ delen). vil der være en langsom tændelse af 10 ampere. (DK)

Kytkentä ajoneuvon virtalähteeseen Jos virtaa otetaan suoraan akusta, 10 ampeerin hidas sulake on asennettava positiiviseen johtoon enintään 12 cm:n etäisyydelle akun positiivisesta (+) navasta. (FI)

Anschluss an Fahrzeugbatterie Bei direktem Anschluss an die Fahrzeugbatterie sollte eine träge 10A-Sicherung in die positive Leitung zwischengeschaltet werden, und zwar nicht weiter als ca. 13 cm von der positiven (+) Batterieklemme entfernt. (DE)

Σύνδεση Τροφοδοτικού Ισχύος Οχήματος Αν η σύνδεση του τροφοδοτικού γίνει κατευθείαν στη μπαταρία, μια ασφάλεια βραδείας τήξης των 10A θα πρέπει να τοποθετηθεί στο θετικό καλώδιο εντός 5 ιντσών (12,7 εκ.) του θετικού (+) ακροδέκτη της μπαταρίας. (GR)

Collegamento dell'alimentazione del veicolo Se il collegamento dell'alimentazione viene stabilito direttamente con la batteria, è necessario installare un fusibile ad azione lenta da 10A nel conduttore positivo a meno di 5 in. (12,7 cm) dal terminale positivo (+) della batteria. (IT)

Tilkople strømforsyningen til kjøretøyet Hvis strømforsyningen koples direkte til batteriet, skal det installeres en 10A treg sikring i den positive ledningen innen 12,7 cm fra plusspolen (+) på batteriet. (NO)

Ligação do fornecimento de corrente do veículo Se a ligação de fornecimento de corrente for ligada directamente à bateria, deve instalar-se um fusível de 10A no terminal positivo, a 12,7 cm. do terminal positivo (+) da bateria. (PT)

Conexión de suministro eléctrico para el vehículo Si el suministro eléctrico se proporciona directamente a la batería, se debe instalar un fusible de retardo de 10A en el conductor positivo, como máximo a 12,7 cm (5 pulgadas) del terminal positivo (+). (ES)

Fordonets strömförsörjningskoppling Om strömkopplingen görs direkt till batteriet, måste en 10A-säkring installeras i den positivt laddade ledningen inom 12.7 cm från batteriets pluspol (+). (SE)

Taşıt Güç Kaynağı Bağlantısı Kaynak bağlantısı doğrudan aküye yapılırsa, pozitif bağlantı kablosu üzerinde akünün pozitif (+) kutbuna 12.7 cm mesafede 10A'lık yavaş atan bir sigorta monte edilmelidir. (TR)

Legend: Danish – DK; English – US; Finnish – FI; French- - FR; German – DE; Greek – GR; Italian – IT; Norwegian – NO; Portuguese – PT; Spanish – ES; Swedish – SE; Turkish – TR.

Chapter 5: Technical Assistance

If you need assistance installing or troubleshooting your device, please contact us by using one of the methods below:

Knowledge Base: www.hsmknowledgebase.com

Our Knowledge Base provides thousands of immediate solutions. If the Knowledge Base cannot help, our Technical Support Portal (see below) provides an easy way to report your problem or ask your question.

Technical Support Portal: www.hsmsupportportal.com

The Technical Support Portal not only allows you to report your problem, but it also provides immediate solutions to your technical issues by searching our Knowledge Base. With the Portal, you can submit and track your questions online and send and receive attachments.

Web form: www.hsmcontactsupport.com

You can contact our technical support team directly by filling out our online support form. Enter your contact details and the description of the question/problem.

Telephone: www.honeywellaidc.com/locations

For our latest contact information, please check our website at the link above.

Product Service and Repair

Honeywell International Inc. provides service for all of its products through service centers throughout the world. To obtain warranty or non-warranty service, please visit www.honeywellaidc.com and select **Support > Contact Service and Repair** to see your region's instructions on how to obtain a Return Material Authorization number (RMA #). You should do this prior to returning the product.

Limited Warranty

Honeywell International Inc. ("HII") warrants its products to be free from defects in materials and workmanship and to conform to HII's published specifications applicable to the products purchased at the time of shipment. This warranty does not cover any HII product which is (i) improperly installed or used; (ii) damaged by accident or negligence, including failure to follow the proper maintenance, service, and cleaning schedule; or (iii) damaged as a result of (A) modification or alteration by the purchaser or other party, (B) excessive voltage or current supplied to or drawn from the interface connections, (C) static electricity or electro-static discharge, (D) operation under conditions beyond the specified operating parameters, or (E) repair or service of the product by anyone other than HII or its authorized representatives.

This warranty shall extend from the time of shipment for the duration published by HII for the product at the time of purchase ("Warranty Period"). Any defective product must be returned (at purchaser's expense) during the Warranty Period to HII factory or authorized service center for inspection. No product will be accepted by HII without a Return Materials Authorization, which may be obtained by contacting HII. In the event that the product is returned to HII or its authorized service center within the Warranty Period and HII determines to its satisfaction that the product is defective due to defects in materials or workmanship, HII, at its sole option, will either repair or replace the product without charge, except for return shipping to HII.

EXCEPT AS MAY BE OTHERWISE PROVIDED BY APPLICABLE LAW, THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER COVENANTS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, ORAL OR WRITTEN, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

HII'S RESPONSIBILITY AND PURCHASER'S EXCLUSIVE REMEDY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT WITH NEW OR REFURBISHED PARTS. IN NO EVENT

SHALL HII BE LIABLE FOR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, AND, IN NO EVENT, SHALL ANY LIABILITY OF HII ARISING IN CONNECTION WITH ANY PRODUCT SOLD HEREUNDER (WHETHER SUCH LIABILITY ARISES FROM A CLAIM BASED ON CONTRACT, WARRANTY, TORT, OR OTHERWISE) EXCEED THE ACTUAL AMOUNT PAID TO HII FOR THE PRODUCT. THESE LIMITATIONS ON LIABILITY SHALL REMAIN IN FULL FORCE AND EFFECT EVEN WHEN HII MAY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH INJURIES, LOSSES, OR DAMAGES. SOME STATES, PROVINCES, OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

All provisions of this Limited Warranty are separate and severable, which means that if any provision is held invalid and unenforceable, such determination shall not affect the validity of enforceability of the other provisions hereof. Use of any peripherals not provided by the manufacturer may result in damage not covered by this warranty. This includes but is not limited to: cables, power supplies, cradles, and docking stations. HII extends these warranties only to the first end-users of the products. These warranties are non-transferable.

The duration of the limited warranty for the VX6 is 1 year.

The duration of the limited warranty for the VX6 Vehicle Mount Assembly is 1 year.

The duration of the limited warranty for the VX6 external UPS battery is 1 year.

The duration of the limited warranty for the VX6 AC power supply and cables is 1 year.

The duration of the limited warranty for the VX6 DC-DC Converter is 1 year.

The duration of the limited warranty for the VX6 cables (USB, Serial, Communication, Power) is 1 year.

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