Honeywell

Horizon[™] 7600

Presentation Laser Imager

Installation and User's Guide

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Introduction

The Horizon[™] 7600 series is Honeywell's next generation in-counter laser bar code scanner. This compact, hands-free scanner is designed with a dense 20-line omnidirectional scan pattern that helps provide fast, efficient throughput with a high first pass read rate.

The 7600 is equipped with a multitude of standard features including:

- Durable die-cast construction
- Available with either a stainless steel (MS7625) or a high-impact plastic (MS7620) top plate
- Firmware updates via Flash ROM
- Field replaceable window
- EAS deactivation antenna is standard
- Supports commonly used interfaces including USB and Keyboard Wedge
- Custom Edit bar code data
- PowerLink, user replaceable cables
- RS232 auxiliary port for adding peripherals
- Programmable depth of field
- OPOS and JPOS system compatible
- Sunrise 2005 Compliant

Scanner		Interface	
High Impact	MS7620- 13	RS232, RS485 [♦] , OCIA, Aux	
Plastic Top	MS7620- 37	RS232, Light Pen, Keyboard Wedge, Stand- Alone Keyboard, USB, Aux	
Stainless	MS7625- 13	RS232, RS485 [♦] , OCIA	
Steel Top	MS7625- 37	RS232, Light Pen, Keyboard Wedge, Stand- Alone Keyboard, USB, Aux	

[♦] Applicable for IBM® host applications

Base Kit Components

Part #	Description	
MS7600	Horizon Series Scanner	
00-02407	MetroSelect [®] Programming Guide	
00-02870	Horizon 7600 Installation and User's Guide	
52-52511A	24" EAS cable	

Guides also available for download at www.honeywellaidc.com.

Optional Accessories

Part #	Description		
46-46640	Point of Sale (POS) USB Plug		
54-54xxx*	Straight PowerLink Cable with built in power jack. 2.1 m (7') cord with short strain relief		
•	xxx* specifies connection to the host. Contact customer service for additional information.		
54-54002	Keyboard Wedge PowerLink Cable with Adapter Cable		
MVC**	Voltage Converter Cable, +12VDC to +5.2VDC or -12VDC to +5.2VDC		
** Contact a customer service representative for additional information on MVC cable series and the host connections available.			
54-54020	Stand Alone Keyboard Wedge PowerLink Cable		
54-54667	RS232 AUX PowerLink Cable		

Other items may be ordered for the specific protocol being used. To order additional items, contact the dealer, distributor, or customer service. See page 55 for contact information.

Part #	Description		
AC to [AC to DC Power Transformer - Regulated 5.2V@ 1A output		
46-46759	120V United States		
46-46616	220V – 240V Continental European		
46-46615	220V – 240V United Kingdom		
46-46984	220V – 240V China		
46-46985	220V – 240V Australia		
46-46641	Stainless Steel Trim Ring		

Replacement Parts

Part #	Description		
\triangle	Window types (Sapphire, Everscan, and Standard) are not interchangeable due to laser safety and/or scanner performance differences.		
Caution	To change window type, the scanner must be returned to the manufacturer for additional configuration.		
46-46602	Stainless Steel Top with Sapphire Window		
46-46603	Stainless Steel Top with <i>Everscan</i> Window		
46-46604	Stainless Steel Top with Standard Window		
46-46605	High Impact Plastic Top with Sapphire Window		
46-46606	High Impact Plastic Top with Everscan Window		
46-46607	High Impact Plastic Top with Standard Window		

Other items may be ordered for the specific protocol being used. To order additional items, contact the dealer, distributor, or customer service. See page 55 for contact information.

Scanner Parts

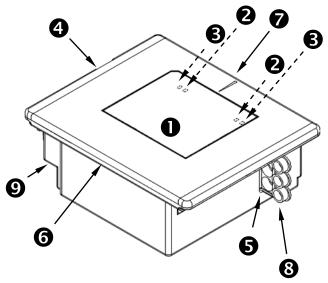


Figure 1: Scanner Parts

- Output Window (Laser Aperture)
- 2 Amber LED (Located Under Window)
- Red LED (Located Under Window)
- 4 Speaker
- **6** Cable Connection Area
- 6 Stainless Steel Top (MS7625 units only)
- Package Flow Indicator Arrow Head
- 8 Rubber Connector Plug
- EAS Deactivation Antenna Connector

Maintenance

Smudges and dirt can interfere with the proper scanning of a bar code. Therefore, the output window will need occasional cleaning.

For the 7600 glass window:

- 1. Spray glass cleaner onto lint free, non-abrasive cleaning cloth.
- 2. Gently wipe the scanner window.

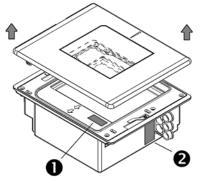
For the 7600 red window:

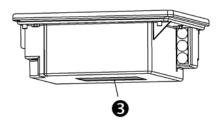
- 3. Use mild soap and water with lint free, non-abrasive cleaning cloth.
- 4. Gently wipe the scanner window.

Scanner Labels

Each scanner has a label on the bottom of the unit. The label contains information such as the model number, date of manufacture, serial number, and caution information. An additional caution label is located under the top plate. The following are examples of these labels.

Figure 2: Label Locations







CAUTION-CLASS 2 LASER LIGHT WHEN OPEN. DO NOT STARE INTO BEAM. ATTENTION - CLASSE 2 RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU



S LE FAISCEAU			
See serial num	RS232 LIGHT PEN	RS232 IBM	
See serial number label for applicable interfaces	KB WEDGE USB	OCIA	
able interfaces.	AUX	AUX	
	762x-37	762x-13	



Honeywell International Inc.

Manufactured by Metro (Suzhou) Technologies Co., Ltd.
Manufactured: June 2007

Manufactured: June 2007 Made in Suzhou China

(G) 3

Horizon™ Barcode Scanner 5V ---

Model: MS7625

USB/KBW/LTPN/RS232

0000000000

This Product is covered by one or more patents. See User's Guide for complete patent list.

SAMPLE

CAUTION - CLASS 2 LASER LIGHT WHEN OPEN. DO NOT STARE INTO BEAM. ATTENTION - CLASSE 2 RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU. Contains no user serviceable components.

Complies with 21 CFR 1040.10 and 1040.11 except deviations pursuant to Laser Notice No. 50 dated June 24, 2007.

Patents See Manual.





IEC 60825-1:2007

CLASS 1 LASER PRODUCT APPAREIL A LASER DE CLASSE 1

> LASER KLASSE 1 PRODUKT

MS7625 Series Only (except RS485 Interface)

If the following label is attached to your product, the product meets Korean agency approval for Class A equipment.

이 기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며,가정외의 지역에서 사용하는 것을 목적으로 합니다.

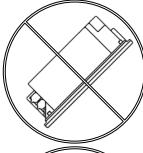
Mounting

Before Installing Your 7600

When mounting the 7600 or replacing the Top Plate:

Do Not Turn the unit upside down.

Figure 3



Do Not Press on the window.

Figure 4



Lift the Top plate straight up to remove.

There is no hardware required to remove or replace the top cover.



See caution on page 3.

There are two installation tabs under the top cover that can be used to place the unit into the counter top mounting hole.

Figure 5

DO NOT PRESS on the window in the replacement Top plate.

Figure 6



Mounting the 7600 Series

There are three options for mounting your 7600. *Option A* uses a shelf to support the unit. *Option B* lets the unit hang free in the counter top. *Option C* lets the unit hang free in the counter top with the use of a stainless steel trim ring for support. The trim ring (PN 46-46641) is an optional purchase. Contact customer service for details.

Before starting to mount the 7600, determine the direction of package flow for your application. The unit *must* be mounted in the countertop with the small arrowhead on the top of the unit pointing in same direction as the package flow.

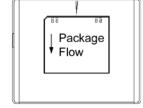


Figure 7: Package Flow

Option A: Shelf Support

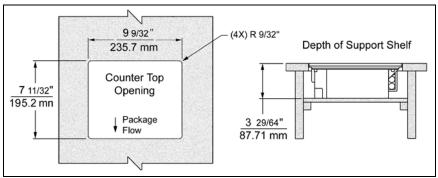


Figure 8: Specifications for Shelf Support

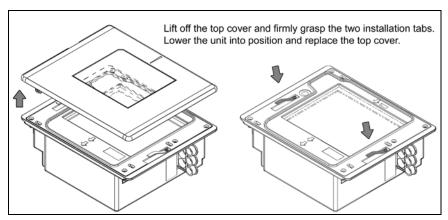


Figure 9: Installation Tabs

Option B: Free Hanging Support

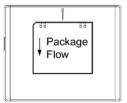


Figure 10: Package Flow (right)

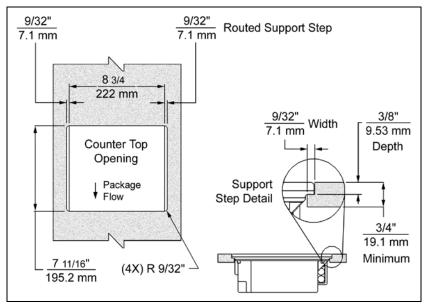


Figure 11: Specifications for Free Hanging Support

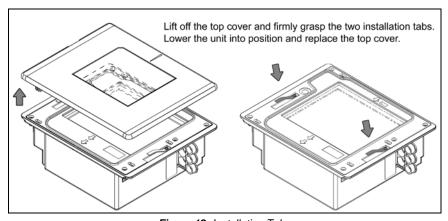


Figure 12: Installation Tabs

Option C: Trim Ring

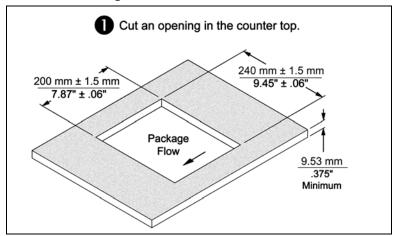


Figure 13: Counter Top Opening for Trim Ring (PN 46-46641)

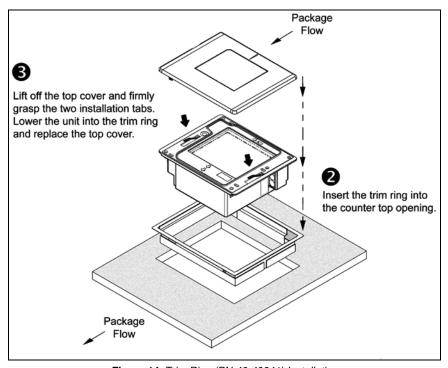


Figure 14: Trim Ring (PN 46-46641) Installation

Installation

Keyboard Wedge

- 1. Turn off the host system.
- Disconnect the keyboard from the host.
- 3. Connect the PowerLink cable to the 2nd jack from the top of the 7600.
- 4. Connect the "Y" end of the PowerLink cable to the keyboard and the keyboard port on the host. If necessary use the male/female adapter cable supplied with the scanner for proper connections.
- Before continuing verify that the PowerLink cable is connected to the appropriate interface jack on the scanner. An incorrect cable connection can cause communication problems or potential damage to the scanner.
- Connect the external power supply to the power jack on the PowerLink cable.
- Check the AC input requirements of the power supply to make sure the voltage matches the AC outlet.
- Connect AC power to the transformer.
 The outlet should be near the equipment and easily accessible.
- 8. Scan the Load Keyboard Wedge
 Defaults bar code to configure the 7600
 for Keyboard Wedge communication.
- 9. Turn on the host system.

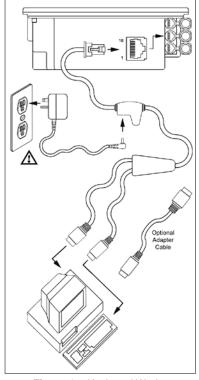


Figure 15: Keyboard Wedge Interfaces



Caution:

A

To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (\underline{S} afety \underline{E} xtra \underline{L} ow \underline{V} oltage) according to EN 60950.

Stand-Alone Keyboard

- 1. Turn off the host system.
- 2. Disconnect the keyboard from the host.
- Connect the PowerLink cable to the 2nd jack from the top of the 7600.
- Connect the other end of the PowerLink cable to the keyboard port on the host.
- Before continuing verify that the PowerLink cable is connected to the appropriate interface jack on the scanner. An incorrect cable connection can cause communication problems or potential damage to the scanner.
- Connect the external power supply to the power jack on the PowerLink cable.
- Check the AC input requirements of the power supply to make sure the voltage matches the AC outlet.
- Connect AC power to the transformer.
 The outlet should be near the equipment and easily accessible.
- 8. Scan the Load Keyboard Wedge Defaults bar code then the Enable Stand Alone Keyboard bar code to configure the 7600 for Stand-Alone Keyboard communication.

Note: When scanning the bar codes, cover the code <u>not</u> being scanned to ensure the codes are read in the proper sequence.

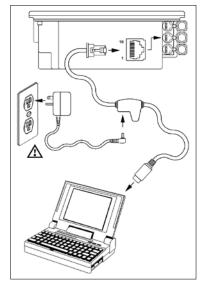


Figure 16: Stand-Alone Keyboard Interface





Turn on the host system.

Caution:

A

To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (<u>Safety Extra Low Voltage</u>) according to EN 60950.

USB

- 1. Turn off the host system.
- Determine if your application requires USB Keyboard communication protocols or USB Point of Sale communication protocols.
- If you require *USB Keyboard* communication protocols, **skip** to step 4.

If you require **USB Point of Sale** communication protocols:

- Remove the 7600 top cover.
- Insert the POS plug (PN 46-46640) into the slot indicated in Figure 17.
- · Replace the top cover.
- Connect the PowerLink USB cable to the 2nd jack down from the top of the 7600.
- 5. Connect the other end of the USB cable to the host.

Before continuing verify that the USB PowerLink cable is connected to the appropriate interface jack on the scanner. An incorrect cable connection can cause communication problems or potential damage to the scanner.

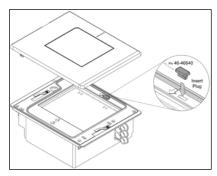


Figure 17: POS Plug Installation

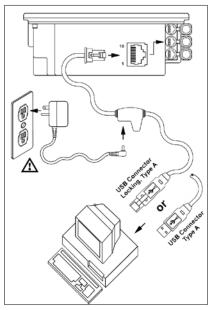


Figure 18: USB, Interface

Continued on next page.

Caution:

 Λ

To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (Safety Extra Low Voltage) according to EN 60950.



Manufacturers Note:

Plugging the scanner into the USB port of the PC does not guarantee that scanned information will appear at the PC. A software driver and correct configuration setting may also be required for proper communication to occur.

Scan the Enable USB Defaults bar code to configure the 7600 for USB communication.



7. Turn on the host system.

RS232 or Light Pen

- 1. Turn off the host system.
- Connect the PowerLink cable into the 1st jack down from the top of the 7600.
- Connect the other end of the PowerLink cable to the host.
- Before continuing verify that the PowerLink cable is connected to the appropriate interface jack on the scanner. An incorrect cable connection can cause communication problems or potential damage to the scanner.
- Connect the external power supply to the power jack on the Power Link Cable.
- Check the AC input requirements of the power supply to make sure the voltage matches the AC outlet.
- Connect AC power to the transformer. The outlet should be near the equipment and easily accessible.
- Scan the appropriate bar codes on page 17 to configure the 7600 for RS-232 or Light Pen communication.
- 8. Turn on the host system.

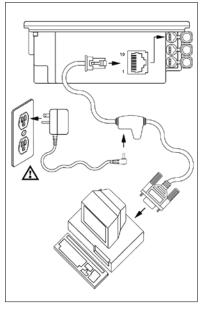


Figure 19: RS232 or Light Pen Interface

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To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (Safety Extra Low Voltage) according to EN 60950.

For RS232 Communication:





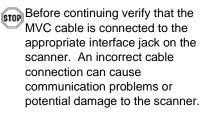
For Light Pen Communication:





RS485

- 1. Turn off the host system.
- Connect the MVC cable to the 1st jack down from the top of the 7600.
- Connect the other end of the MVC cable to the host.



Manufacturers Note:

Plugging the scanner into the serial port of the PC does not guarantee that scanned information will appear at the PC. A software driver and correct configuration setting are also required for proper communication to occur.

- 4. Turn on the host system.
- 5. Scan the *Load 46xx IBM Defaults* bar code to configure the 7600 for RS485 communication.

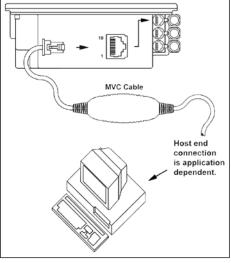


Figure 20: RS232/RS485. Interface



For additional communication options for RS485 interfaces refer to the MetroSelect Programming Guide (PN 00-02407).

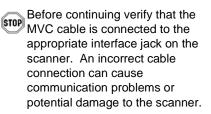
Caution:



To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (<u>Safety Extra Low Voltage</u>) according to EN 60950.

OCIA

- 1. Turn off the host system.
- Connect the MVC cable to the 2nd jack down from the top of the 7600.
- Connect the other end of the MVC cable to the host.



Manufacturers Note:

Plugging the scanner into the serial port of the PC does not guarantee that scanned information will appear at the PC. A software driver and correct configuration setting are also required for proper communication to occur.

- 4. Turn on the host system.
- Scan the Load OCIA Defaults bar code to configure the 7600 for OCIA communication.

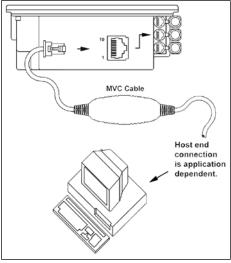


Figure 21: OCIA, Interface



For additional communication options for OCIA interfaces refer to the MetroSelect Programming Guide (PN 00-02407).



Caution:

To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (Safety Extra Low Voltage) according to EN 60950.

Secondary Scanner

- 1. Turn off the host system.
- 2. Connect the **round** end of the PowerLink RS232 AUX cable [PN 54-54667A] to the RS232 jack of the **secondary** scanner (see Figure 23).
- Connect the other end of the PowerLink RS232 AUX cable into the 3rd jack down from the top of the 7600.
 - The following Honeywell scanners can be used in the "Aux" input of the MS7600: the MS9520, MS9540, MS7220, MS7120, MS6720, MS6220, MS6520, MS5145 or another 7600.
- Connect the 7600/Host PowerLink* cable to the appropriate interface jack on the back of the 7600.
- Connect the other end of the 7600/Host PowerLink cable to the host.
- 6. Connect the external power supplies for the secondary scanner and the 7600 to the power jacks on the two PowerLink cables.
- Before continuing verify that the PowerLink cables are connected to the appropriate interface jacks on the scanner. An incorrect cable connection can cause communication problems or potential damage to the scanner.
- Insert the attached rubber plug into the remaining jack not being used on the 7600.
- 8. Check the AC input requirements of both power supplies to make sure the voltage matches the AC outlets.
- 9. Connect AC power to the transformers. The outlets should be near the equipment and easily accessible.
- 10. Configure the 7600 for the appropriate interface configuration settings*.
 - Continued on the next page.
- * The 7600/host cable connection is interface dependent. Refer to the installation steps provided for the type of interface (RS232, RS485, etc.) required for your application.

Caution:



To maintain compliance with applicable standards, all circuits connected to the scanner must meet the requirements for SELV (\underline{S} afety \underline{E} xtra \underline{L} ow \underline{V} oltage) according to EN 60950.

11. Scan the following bar code to configure the auxiliary port on the 7600 to accept a Honeywell scanner as the secondary scanner.



The following bar codes **do not apply** when using an MS6720 as a secondary scanner. Contact a customer service representative for additional information on the MS6720. If the secondary scanner is not a Honeywell scanner refer to Section O of the MetroSelect Configuration Guide.



- The auxiliary input port's data format must match the main output format of the secondary scanner.
- 12. Scan the following bar codes, in order, to configure the secondary scanner to match the auxiliary port's data format.

1st Enable AUX Output



2nd Secondary Scanner Data Format



3rd Enable Comm Timeouts



4th (Optional) Turn OFF Secondary Scanner's Beeper



13. Turn on the host system.

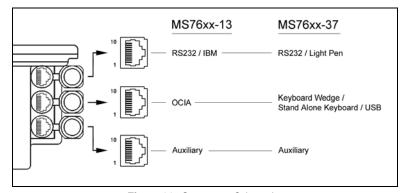


Figure 22: Connector Orientation

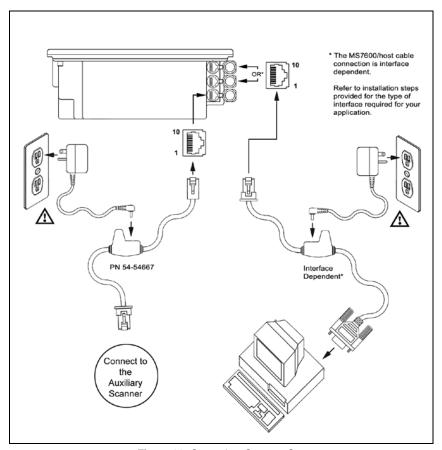


Figure 23: Secondary Scanner Setup

EAS Deactivation Antenna

SW1 and SW2 are the switch banks inside the Checkpoint Device that set the deactivation range. Honeywell recommends end users program the 7600 to the Fixed Low-Density depth of field, so that the unit does not scan out beyond the deactivation range.

Unit #	CheckPoint Recommended Switch Bank Settings	7600 Depth of Field Settings
MS7620	1, 2, 3, 4, 5, on SW1 & SW2	Fixed Low Density*
MS7625	1, 2, 3, 4, 5, on SW1 & SW2	Fixed Low Density*
·		

*Note: Minimum element width changes to 6.8 mil when in this mode.

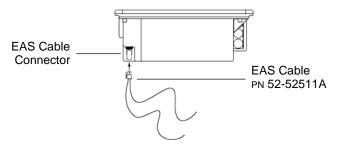


Figure 24: EAS Cable and Connector

Contact Checkpoint Systems directly for additional EAS support.

Operation

Audible Indicators

When the 7600 scanner is in operation, it provides audible feedback. These sounds indicate the status of the scanner. Eight settings are available for the tone of the beep (normal, 6 alternate tones and no tone) plus three volume settings. To change the tone or volume, refer to *Changing the Beeper Tone & Volume on page 27*.



One Beep

When the scanner *first* receives power, the amber LED will turn on, the red LED will flash and the scanner will beep once. (The red LED will remain on for the duration of the beep.) The scanner is now ready to scan.

When the scanner *successfully* reads a bar code, the red LED will flash and the scanner will beep once (if programmed to do so). If the scanner does not beep once and the red light does not flash, then the bar code has *not* been successfully read.



Razzberry Tone

This is a failure indicator. Refer to failure modes page 26.



Three Beeps - During Operation

When placing the scanner in program mode, the red LED will flash while the scanner simultaneously beeps three times. The red and amber LEDs will continue to flash until the unit exits program mode. Upon exiting program mode, the scanner will beep three times and the red LED will stop flashing.

When configured, 3 beeps can also indicate a communications timeout during normal scanning mode.

When using one-code-programming, the scanner will beep three times (the current selected tone), followed by a short pause, a high tone and a low tone. This tells the user that the single configuration bar code has *successfully* configured the scanner.



Three Beeps - On Power Up

This is a failure indicator. Refer to failure modes page 26.

Visual Indicators

There is a red LED and amber LED on the front of the 7600. When the scanner is on, the flashing or constant illumination of the LEDs indicates the status of the current scan and the scanner.

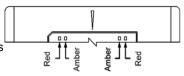


Figure 25: LEDs

No Red or Amber LED

The LEDs will not be illuminated if the scanner is not receiving power from the host or transformer.



Steady Amber

When the laser is active, the amber LED is illuminated. The amber LED will remain illuminated until the laser is deactivated.



Steady Amber and Single Red Flash

When the scanner successfully reads a bar code, the red LED will flash and the scanner will beep once. If the red LED does not flash or the scanner does not beep once, then the bar code has not been successfully read.





Steady Amber and Steady Red

After a successful scan, the scanner transmits the data to the host device. Some communication modes require that the host inform the scanner when data is ready to be received. If the host is not ready to accept the information, the scanner's red LED will remain on until the data can be transmitted.



Flashing Amber then Flashing Red

This indicates the scanner is in program mode. A razzberry tone indicates that an invalid bar code has been scanned in this mode.





or

If the unit is in sleep mode, each LED will flash once every 15 seconds.





Steady Red, Amber off

This indicates the scanner may be waiting for communication from the host.





Failure Modes

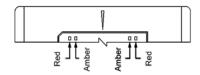
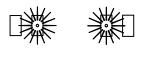


Figure 26: LEDs

Flashing Amber and One Razzberry Tone

This indicates the scanner has experienced a laser subsystem failure. Return the unit for repair at an authorized service center.



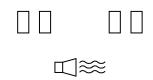
Flashing Red and Amber and Two Razzberry Tones

This indicates the scanner has experienced a motor failure. Return the unit for repair at an authorized service center.



Continuous Razzberry Tone with both LEDs off

If, upon power up, the scanner emits a continuous razzberry tone, then the scanner has an electronic failure. Return the unit for repair at an authorized service center.



Three Beeps - on power up

If the scanner beeps 3 times on power up then, the nonvolatile memory that holds the scanner configuration has failed. Return the unit for repair at an authorized service center.



Changing the Beeper Tone & Volume

Changing the Beeper Tone

Beeper tones may be programmed directly or incrementally using the following bar code. The new tone will be heard followed by a short pause. Two more new tones will be heard signifying the new setting has been stored in memory. The silent (no beep) tone is also selectable.



Changing the Beeper Volume

Volume levels may be programmed directly or incrementally using the following bar code. The new volume will be heard followed by a short pause. Two more tones will be heard signifying the new setting has been saved in memory. The silent (no volume) tone is also selectable.



These volume control and beeper tone bar codes can also be found under the Top plate of the scanner and in the MetroSelect Programming Guide.

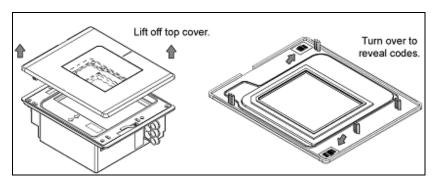


Figure 27: Additional Beeper Tone and Volume Control Bar Codes

Power Save Modes and IR Detection

The 7600 has five programmable power save modes. Refer to the *MetroSelect Programming Guide* for additional information on Power Save Modes.

1. Blink Power Save Mode:

Blinks the laser OFF & ON after a programmed period of non-use.

When the scanner recognizes a bar code it will exit the Blink mode.

2. Laser Off Power Save Mode:

Turns the laser OFF after a programmed period of non-use. The motor continues to spin allowing for a faster "wake" up time.

Any movement detected by the IR will "wake" the scanner from the *Laser Off* power save mode (see Figure 28).

3. Laser & Motor Off Power Save Mode:

Turns the laser and motor OFF after a programmed period of non-use.

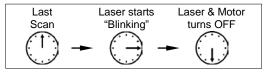
Any movement detected by the IR will "wake" the scanner from the power save mode (see Figure 28). This mode's "wake" time is slightly longer due to the motor's need to restart.

4. Dual Action Power Save Mode #1:

"Blinks" the laser OFF & ON after a programmed period of non-use turns the laser and motor OFF at thirty-minute intervals.

Example:

If the power save timeout is set to 15 minutes.



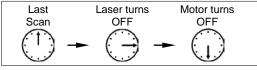
Any movement detected by the IR will "wake" the scanner from the power save mode (see Figure 28).

5. Dual Action Power Save Mode #2 (Default):

Turns the laser OFF after a programmed period of non-use then turns the motor OFF after thirty-minute intervals.

Example:

If the power save timeout is set to 15 minutes.



Any movement detected by the IR will "wake" the scanner from the power save mode (see Figure 28).

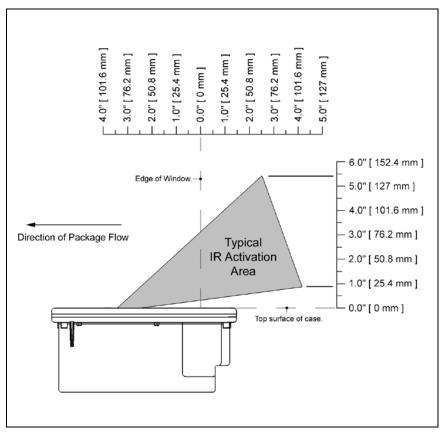


Figure 28: IR Activation Area Parallel to Package Flow

Specifications are subject to change without notice.

Scan Volume Specifications

Figure 29: Scan Volume in Plane Perpendicular to Flow

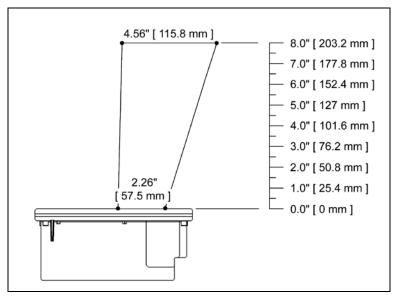


Figure 30: Scan Volume in Plane Parallel to Flow

Depth of Field by Minimum Bar Code Element Width

(BASED ON 100% UPC BAR CODES)

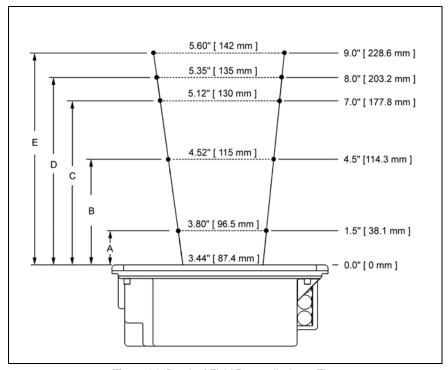


Figure 31: Depth of Field Perpendicular to Flow

Minimum Bar Code Element Width					
	Α	В	С	D	E
mm	.13	.19	.26	.33	.48
mils	5.2	7.5	10.4	13	19

Specifications subject to change without notice.

Troubleshooting

The following guide is for reference purposes only. Contact a customer service representative to preserve the limited warranty terms.

SYMPTOMS	POSSIBLE CAUSE(S)	SOLUTION		
All Interfaces				
No LEDs, beep or motor spin.	No power is being supplied to the scanner.	Check transformer, outlet and power strip. Make sure the cable is plugged into the scanner.		
No LEDs, beep.	No power is being supplied to the scanner from host.	Some host systems cannot supply enough current to power 7600 series scanner. Use the power supply included with the scanner.		
3 beeps on power up.	Non-volatile RAM failure.	Contact a customer service representative, if the unit will not hold the programmed configuration.		
Continuous razz tone on power up.	RAM or ROM failure.	Contact a customer service representative, if the unit will not function.		
Razz tone and amber LED flash at power up.	VLD failure.	Contact a customer service representative.		
Razz tone and both LEDs flash at power up.	Scanner motor failure.	Contact a customer service representative.		
Multiple scans upon presentation of code.	Same symbol timeout set too short.	Adjust same symbol timeout for a longer time.		
The unit powers up, but does not beep.	Beeper disabled No volume is selected No tone is selected.	Enable beeper Select volume Select tone.		

SYMPTOMS	POSSIBLE CAUSE(S)	SOLUTION
	Scanning a particular symbology that is not enabled.	UPC/EAN, Code 39, interleaved 2 of 5, Code 93, Code 128 and Codabar are enabled by default. Verify that the type of bar code being read has been selected.
The unit powers up, but does not scan and/or beep.	The scanner has been programmed for a character length lock, or a minimum length and bar code being scanned does not satisfy the programmed criteria.	Verify that the bar code that is being scanned falls into the criteria. (Typical of Non-UPC/EAN codes. The scanner defaults to a minimum of 4 character bar code.)
The unit scans a bar code, but locks up after the first scan (red LED stays on).	The scanner is configured to support some form of host handshaking but is not receiving the signal.	If the scanner is setup to support ACK/NAK, RTS/CTS, XON/XOFF or D/E, verify that the host cable and host are supporting the handshaking properly.
The unit scans, but the data transmitted to the host is incorrect.	The scanner's data format does not match the host system requirements.	Verify that the scanner's data format matches that required by the host. Make sure that the scanner is connected to the proper host port.
Scanner beeps	The print quality of the bar code is suspect.	Observation and The transf
at some bar codes and NOT for others of the same bar code	Also check character length lock.	Check print mode. The type of printer could be the problem. Change print settings. For example change to econo mode or high speed.
symbology.	The aspect ratio of the bar code is out of tolerance.	3

SYMPTOMS	POSSIBLE CAUSE(S)	SOLUTION	
	The bar code may have been printed incorrectly.	Check if it is a check digit/character/or border problem.	
Scanner beeps at some bar codes and NOT for others of the same bar code symbology.	The scanner is not configured correctly for this type of bar code.	Check if check digits are set properly.	
Symbology.	The minimum symbol length setting does not work with the bar code.	Check if the correct minimum symbol length is set.	
Keyboard Wedge	e Only		
The unit scans the bar code but there is no data.	Configuration is not correct.	Make sure the scanner is configured for the appropriate mode.	
The unit scans but the data is not correct. Configuration is not correct.		Make sure that the proper PC type AT, PS2 or XT is selected. Verify correct country code and data formatting are selected. Adjust intercharacter delay SYMPTOM.	
The unit is transmitting each character.	Configuration is not correct.	Increase the interscan code delay setting. Adjust whether the F0 break is transmitted. It may be necessary to try this in both settings.	
Alpha characters show as lower case.	Computer is in Caps Lock mode.	Enable Caps Lock detect setting of the scanner to detect whether the PC is operating in Caps Lock.	

SYMPTOMS	POSSIBLE CAUSE(S)	SOLUTION
Everything works except for a couple of characters.	These characters may not be supported by that country's key look up table.	Try operating the scanner in Alt mode.
RS-232 Only		
The unit is transmitting each character.	Configuration is not correct.	Increase the interscan code delay setting. Adjust whether the F0 break is transmitted. It may be necessary to try this in both settings.
Alpha characters show as lower case.	Computer is in Caps Lock mode.	Enable Caps Lock detect setting of the scanner to detect whether the PC is operating in Caps Lock.
Everything works except for a couple of characters.	These characters may not be supported by that country's key look up table.	Try operating the scanner in Alt mode.
Power-up OK	Com port at the host is not working or configured properly.	Check to make sure that the
and scans OK but does not communicate properly to the	Cable not connected to the proper com port.	baud rate and parity of the scanner and the communication port match and the program is
host.	Com port not operating properly.	looking for "RS-232" data.
The host is receiving data but the data does not look correct.	The scanner and host may not be configured for the same interface.	Check that the scanner and the host are configured for the same interface.

SYMPTOMS	POSSIBLE CAUSE(S)	SOLUTION	
Characters are being dropped.	Intercharacter delay needs to be added to the transmitted output.	Add some intercharacter delay to the transmitted output by using the MetroSelect Programming Guide (PN 00-02407).	
Aux port operati	on with any interface		
Trouble with the Secondary Scanner.		Refer to the user guide provided with the secondary scanner.	
Secondary	Cable [PN 54-54667] may not be connected to the proper port.	Ensure Secondary scanner is connected to the 7600 com port marked "Aux" port.	
Scanner powers up but data is not	The "Aux" com port	* The 7600 must be programmed to enable the "Aux" port.	
host. r	may not be operating properly.	The auxiliary input port's data format must match the main output format of the secondary scanner.	
	interface, choose "HoloTrak rameters will be automatically		
USB Only			
The scanner Powers up ok,	The USB Port is not	Check that the scanner is programmed for USB operation.	
scans ok but does not communicate.	operating correctly.	Check that the host's USB port is enabled.	
When configured as USB scanner	USB port is not	Unplug & plug USB cable at host end.	
razz tone & 3 LED flashes.	operating correctly.	Contact a customer service representative if error continues.	

Design Specifications

Operational

_	
Light Source:	VLD 650 ± 10 nm
Laser Power:	1.1 mW maximum
Depth of Field:	0 mm to 203.2 mm (0"- 8.0") for 0.33 mm (13 mil) bar code
Width of Scan Field:	87.4 mm (3.4") @ 0 mm (0.0"); 136 mm (5.35") @ 203.2 mm (8.0") Measurements in plane perpendicular to package flow.
Scan Speed:	2000 scans/second
Scan Pattern:	5 fields of 4 parallel lines (omnidirectional)
Scan Lines:	20
Min Bar Width:	0.127 mm (5.0 mil)
Decode Capability:	Autodiscriminates all standard bar codes; for other symbologies call Honeywell
System Interfaces:	PC Keyboard Wedge, RS-232, OCIA, Light Pen, Stand Alone PC Keyboard, USB, RS485
Print Contrast:	35% minimum reflectance difference
No. Characters Read:	up to 80 data characters(Maximum number will vary based on symbology and density)
Roll, Pitch, Yaw:	360°, 60°, 60°
Beeper Operation:	7 tones or no beep
Indicators (LED):	amber = laser on, ready to scan red = good read, decoding

Mechanical

Dimensions:	193 mm (7.6") H, 88 mm (3.5") D, 229 mm (9.0") W
Weight:	2.88 Kg (6.35 lbs)
Termination:	Three 10-pin modular RJ45 jacks
Cable:	Standard 2.1m (7') straight; for other cables call Honeywell

Specifications subject to change without notice.

Electrical

Input Voltage:	5.2VDC ± 0.25V
Power:	2.6 W
Operating Current:	500 mA
Standby Current	Laser Off Power Save Mode = ≤ 350 mA
Standby Current:	Laser/Motor Off Power Save Mode = ≤165 mA
DC Transformers:	Class II; 5.2 V @ 1A
Laser Class:	IEC 60825-1:2007 Class 1
EMC:	FCC, ICES-003 & EN 55022 Class B

Environmental

Operating Temperature:	0°C to 40°C (32°F to 104°F)
Storage Temperature:	-40°C to 60°C (-40°F to 140°F)
Humidity:	5% to 95% relative humidity, non-condensing
Light Levels:	4842 LUX (450 foot candles)
Contaminants:	Sealed to resist airborne particulate contaminants
Ventilation:	None required

Specifications subject to change without notice.

Applications and Protocols

The model number on each scanner includes the scanner number and factory default communications protocol.

Scanner	Version Identifier	Communication Protocol(s)
7620 7625	13	RS232, RS485, OCIA, Aux
7620 7625	37	RS232, Light Pen, Keyboard Wedge, Stand-Alone Keyboard, USB, Aux

The 7600 with Built-in PC Keyboard Wedge Interface is designed to be used for keyboard emulation only. Many RS-232 programmable functions available in other Honeywell scanners are also available as keyboard wedge functions.

The following are the most important selectable options specific to the keyboard wedge.

Keyboard Type

- ** AT (includes IBM® PS2 models 50, 55, 60, 80)
- XT
- IBM PS2 (includes models 30, 70, 8556)

Keyboard Country Type

- *USA
- Belgian
- French
- German
- Hungarian
- Italian
- Japanese
- Russian Cyrillic
- Slovenian
- Spanish

- Swiss
- Swedish/Finnish
- Turkish
- United Kingdom
- ** Refer to pages 39-44 for complete information on the factory default settings. Refer to the MetroSelect® Programming Guide (PN 00-02407) or MetroSet 2's help files for information on how to change the default settings.

Default Settings

Many functions of the scanner can be "programmed" - that is, enabled or disabled. The scanner is shipped from the factory programmed to a set of default conditions. The default parameter of the scanner has an asterisk (*) in the charts on the following pages. If an asterisk is not in the default column then the default setting is Off or Disabled. Every communication does not support every parameter. If the communication supports a parameter listed in the charts on the following pages, a check mark will appear.

PARAMETER	DEFAULT	OCIA	RS-232	LIGHT PEN	RS485	KBW	USB
UPC/EAN	*	✓	✓	✓	✓	✓	✓
Code 128	*	✓	✓	✓	✓	✓	✓
Code 93	*	✓	✓	✓	✓	✓	✓
Codabar	*	✓	✓	✓	✓	✓	✓
Interleaved 2 of 5 (ITF)	*	✓	✓	✓	✓	✓	✓
MOD 10 Check on ITF		✓	✓	✓	✓	✓	✓
Code 11		✓	✓	✓	✓	✓	✓
Code 39	*	✓	✓	✓	✓	✓	✓
Full ASCII Code 39		✓	✓	✓	✓	✓	✓
MOD 43 Check on Code 39		✓	✓	✓	✓	✓	✓
MSI-Plessey		✓	✓	✓	✓	✓	✓
Airline (15 digit) 2 of 5		✓	✓	✓	✓	✓	✓
Airline (13 digit) 2 of 5		✓	✓	✓	✓	✓	✓
Matrix 2 of 5		✓	✓	✓	✓	✓	✓
Telepen		✓	✓	✓	✓	✓	✓
UK Plessey		✓	✓	✓	✓	✓	✓
STD 2 of 5		✓	✓	✓	✓	✓	✓
MSI-Plessey 10/10 Check Digit		✓	√	✓	√	✓	✓
MSI-Plessey MOD 10 Check Digit	*	✓	✓	✓	✓	✓	✓
Paraf Support		✓	✓	✓	✓	✓	✓
ITF Symbol Lengths	Variable	✓	✓	✓	✓	✓	✓
Minimum Symbol Length	4	✓	✓	✓	✓	✓	✓
Symbol Length Lock	None	✓	✓	✓	✓	✓	✓
Bars High as Code 39	*			✓			
Spaces High as Code 39				✓			

PARAMETER	DEFAULT	OCIA	RS-232	LIGHT PEN	RS485	KBW	USB
Bars High as Scanned				✓			
Spaces High as Scanned				✓			
DTS/SIEMENS		✓					
DTS/NIXDORF	*	✓					
NCR F		✓					
NCR S		✓					
Poll Light Pen Source				✓			
Beeper Tone	Normal	✓	✓	✓	✓	✓	✓
Beep/Transmit Sequence	Before Transmit	✓	✓	✓	✓	✓	✓
Beeper Volume	Loudest	✓	✓	✓	✓	✓	✓
Communication Timeout	None	✓	✓	✓	✓	✓	✓
Razzberry Tone on Timeout		✓	✓	✓	✓	✓	✓
Three Beeps on Timeout		✓	✓	✓	✓	✓	✓
No Beeps on Timeout	*	✓	✓	✓	✓	✓	✓
Enter Power Save Mode	10 mins.	✓	✓	✓	✓	✓	✓
Blink Power Save Mode		✓	✓	✓	✓	✓	✓
Laser OFF Power Save Mode		✓	✓	✓	✓	✓	✓
Laser & Motor OFF Power Save Mode		✓	✓	✓	✓	✓	✓
Dual Action Power Save Mode #1		✓	✓	✓	✓	✓	✓
Dual Action Power Save Mode #2	*	✓	✓	✓	✓	✓	✓
Same Symbol Rescan Timeout: 200 msecs		✓	✓	✓	✓	✓	✓
Same Symbol Rescan Timeout: 500 msecs Programmable in 50 msec steps (MAX 6.35 seconds)	*	√	~	√	√	√	√
Same Symbol Rescan Timeout: 1250 msecs		✓	✓	✓	✓	√	✓
Same Symbol Rescan Timeout: 2000 msecs		✓	✓	✓	✓	✓	✓
Intercharacter Delay Programmable in 1 msec steps (MAX 255 msecs)	1 msecs 10 msecs in KBW	✓	~		✓	✓	

PARAMETER	DEFAULT	OCIA	RS-232	LIGHT PEN	RS485	KBW	USB
Number of Scan Buffers	1	✓	✓	✓	✓	✓	✓
Transmit EAN-8 Check Digit	*	✓	✓		✓	✓	✓
Transmit EAN-13 Check Digit	*	✓	✓		✓	✓	✓
Transmit UPC-A Check Digit	*	✓	✓	✓	✓	✓	✓
Transmit UPC-E Check Digit			✓	✓	✓	✓	✓
Expand UPC-E		✓	✓	✓	✓	✓	✓
Convert UPC-A to EAN-13		✓	✓		✓	✓	✓
UPC GTIN-14 Format		✓	✓		✓	✓	✓
Transmit Lead Zero on UPC-E		✓	✓	✓	✓	✓	✓
Convert EAN-8 to EAN-13		>	~		~	~	>
Transmit UPC-A Number System	*	✓	✓	✓	✓	✓	✓
Transmit UPC-A Manufacturer ID#	*	✓	✓	✓	✓	✓	✓
Transmit UPC-A Item ID#	*	✓	✓	✓	✓	✓	✓
Transmit Codabar Start/Stop Characters		✓	✓		✓	✓	✓
CLSI Editing (Enable)		✓	✓		✓	✓	✓
Transmit Mod 43 Check Digit on Code 39		√	✓		✓	✓	✓
Transmit Code 39 Stop/Start Characters		✓	✓		✓	✓	✓
Transmit Mod 10/ITF		✓	✓		✓	✓	✓
Transmit MSI-Plessey Check Characters		✓	✓		✓	✓	✓
Parity	Space		✓				
Baud Rate	9600		✓				
8 Data Bits			✓	· ·			
7 Data Bits	*		✓				
Transmit Sanyo ID Characters			✓			✓	✓
Nixdorf ID			✓			✓	✓
LRC Enabled			✓			✓	✓
UPC Prefix			✓			✓	✓

PARAMETER	DEFAULT	OCIA	RS-232	LIGHT PEN	RS485	KBW	USB
UPC Suffix			✓			✓	✓
Transmit AIM ID Characters			✓			✓	✓
STX Prefix			✓			✓	✓
ETX Suffix			✓			✓	✓
Carriage Return	*		✓			✓	✓
Line Feed - disabled by default in KBW	*		√			✓	✓
Tab Prefix			✓			✓	✓
Tab Suffix			✓			✓	✓
"DE" Disable Command			✓				✓
"FL" Laser Enable Command			✓				✓
DTR Handshaking Support			✓				
RTS/CTS Handshaking			✓				
Character RTS/CTS	*		✓				
Message RTS/CTS			✓				
XON/XOFF Handshaking			✓				
ACK/NAK			✓				
Two Digit Supplements		√	✓	as code 39	✓	✓	✓
Five Digit Supplements		✓	√	as code 39	✓	✓	✓
Bookland 978		✓	✓	as code 39	✓	✓	✓
Bookland 977 (2 digit) Supplemental Requirement		✓	✓	✓	✓	✓	✓
Supplements are not Required	*	✓	✓	✓	✓	✓	✓
Two Digit Redundancy	*	✓	✓	✓	✓	✓	✓
Five Digit Redundancy		✓	✓	✓	✓	✓	✓
100 msec to Find Supplement Programmable in 100 msec steps (MAX 800 msec)	*	✓	✓	✓	✓	✓	✓

PARAMETER	DEFAULT	OCIA	RS-232	LIGHT PEN	RS485	KBW	USB
Coupon Code 128		√	✓	as code 39	√	√	✓
Programmable Code Lengths	7 avail.	✓	~	✓	✓	✓	✓
Programmable Prefix Characters	10 avail.		√			√	✓
Suffix Characters			✓			✓	~
Prefixes for individual Code Types			✓			✓	✓
Editing		✓	✓	✓	✓	✓	✓
Inter Scan-Code Delay Programmable (100 µsec steps)	800 µsec					√	√
Function/Control Key Support						✓	✓
Minimum Element Width Programmable in 5.6 μsec steps	1 msec			✓			
Depth of Field							
Variable Depth of Field	*	✓	√	✓	✓	✓	✓
Normal Depth of Field	*	✓	√	✓	✓	✓	✓
Extended Depth of Field		✓	✓	✓	√	✓	✓
Long Depth of Field	*	√	√	√	√	✓	√
Ultra Close Depth of Field		✓	✓	✓	✓	✓	✓

Default settings for "Aux" interface

The secondary scanner and the 7600 always communicate via RS232. Data is relayed to the host via various primary interfaces.

PARAMETER	DEFAULT	OCIA	RS-232	LIGHT PEN	RS485	KBW	USB
Aux Baud Rate	38400	✓	√	√	√	√	√
Aux parity	space	✓	√	√	√	√	√
Aux data bits	7	✓	✓	✓	✓	✓	✓
Aux stop bits	2	✓	√	√	√	√	✓
Aux character RTS	*	✓	√	√	✓	✓	✓
Aux message RTS		✓	✓	✓	✓	✓	✓
Aux Ack/Nak	*	✓	√	√	✓	✓	✓
Aux Xon/Xoff	*	✓	✓	✓	✓	✓	✓
Aux D/E commands		✓	✓	✓	✓	✓	✓
Aux M/O commands		✓	√	√	✓	✓	✓
Aux F/L commands		✓	√	✓	✓	✓	✓
Aux Intercharacter Delay	1 msec	✓	✓	✓	✓	✓	✓
Aux Port Data Format	None (Disabled)	√	✓	✓	✓	✓	✓

Scanner and Cable Terminations

Scanner Pinout Connections

The 7600 scanner interfaces terminate to 10-pin modular jacks located on the back of the unit. The serial # label indicates the model number of the scanner.

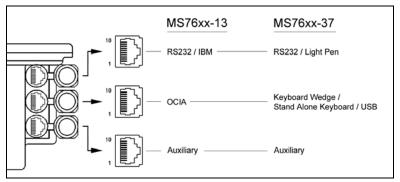


Figure 32: Scanner Interface Ports

MS762x-13 OCIA		
Pin	Function	
1	Ground	
2	NC	
3	NC	
4	RDATA	
5	RDATA Return	
6	Clock in	
7	Clock out	
8	Clock in Return/	
O	Clock out Rtrn	
9	+5VDC	
10	Shield Ground	

	MS762x-13 RS485
Pin	Function
1	Ground
2	RS-232 Transmit Output
3	RS-232 Receive Input
4	RTS Output
5	CTS Input
6	DTR
7	IBM B- (D-)
8	IBM A+ (D+)
9	+5V IN
10	NC

MS	MS762x-13/-37 Auxilary Port RS232 IN Only		
Pin	Function		
1	Ground		
2	RS-232 Receive Input		
3	RS-232 Transmit Output		
4	RTS In		
5	CTS Out		
6-10	NC		

Continued on next page

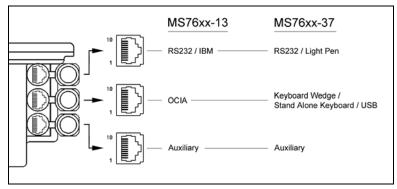


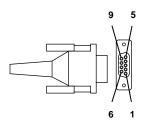
Figure 33: Scanner Interface Ports

MS762x-37 Keyboard Wedge, Stand-Keyboard or USB		
Pin	Function	
1	Ground	
2	USB D-	
3	USB D+	
4	PC Data	
5	PC Clock	
6	KB Clock	
7	PC +5V, V-USB	
8	KB Data	
9	+5VDC	
10	Shield Ground	

MS762x-37 RS-232 or Light Pen		
Pin	Function	
1	Ground	
2	RS-232 Transmit Output	
3	RS-232 Receive Input	
4	RTS Output	
5	CTS Input	
6	DTR Input/LTPN Source	
7	N/C	
8	LTPN Data	
9	+5VDC	
10	Shield Ground	

Cable Connector Configurations (Host End)

PowerLink Cable PN 54-54xxx*	
Pin	Function
1	Shield Ground
2	RS-232 Transmit Output
3	RS-232 Receive Input
4	DTR Input
5	Power/Signal Ground
6	Reserved
7	CTS Input
8	RTS Output
9	+5VDC



9-Pin D-Type Conn.

xxx* specifies connection to the host

	USB PowerLink Cable PN 54-54165, Type A
Pin	Function
1	N/C
2	D-
3	D+
4	Ground

4		
	0	
	0	
1		

USB Type A (Top) Locking Type A (Bottom)



PowerLink, RS232 LSO/AUX Cable PN 54-54667		
	11104 04001	
Pin	Function	
1	Ground	
2	RS-232 Transmit Output	
3	RS-232 Receive Input	
4	RTS Output	
5	CTS Input	
6-10	N/C	



10-pin Modular Plug

Stand Alone Keyboard Cable PN 54-54020		
Pin	Function	
1	PC Data	
2	NC	
3	Power Ground	
4	+5VDC PC Power to KB	
5	PC Clock	
6	NC	



6-Pin Male Mini-DIN Conn.

Cable Connector Configuration

The PowerLink cable is terminated with a 5-pin DIN female connector on one end, and a 6-pin mini DIN male on the other.



Honeywell will supply an adapter cable with a 5-pin DIN male connector on one end and a 6-pin mini DIN female connector on the other.



According to the termination required, connect the appropriate end of the adapter cable to the PowerLink cable, leaving the necessary termination exposed for connecting to the keyboard and the keyboard port on the PC. The pin assignments are as follows:

PowerLink Cable		
5-pin Female DIN		
Pin	Function	
1	Keyboard Clock	
2	Keyboard Data	
3	No Connect	
4	Power Ground	
5	+5 Volts DC	

6-pin Male Mini-DIN			
Pin	Function		
1	Keyboard Data		
2	No Connect		
3	Power Ground		
4	+5 Volts DC		
5	PC Clock		
6	No Connect		

Adapter Cable		
5-pin Male DIN		
Pin	Function	
1	PC Clock	
2	PC Data	
3	No Connect	
4	Power Ground	
5	+5 Volts DC	

6-pin Female Mini-DIN			
Pin	Function		
1	Keyboard Data		
2	No Connect		
3	Power Ground		
4	+5 Volts DC		
5	Keyboard Clock		
6	No Connect		

Limited Warranty

Honeywell International Inc. ("HII") warrants its products and optional accessories 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 endusers of the products. These warranties are non-transferable.

The duration of the limited warranty for the 7600 is three (3) year(s). The accessories have a 90 day limited warranty from the date of manufacture.

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Regulatory Compliance

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.

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

Notice

This Class B digital apparatus complies with Canadian ICES-003.

Avertissement

Cet appareil numérique de la class B est conforme à la norme NMB-003.

△ Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure. Under no circumstances should the customer attempt to service the laser scanner. Never attempt to look at the laser beam, even if the scanner appears to be nonfunctional. Never open the scanner in an attempt to look into the device. Doing so could result in hazardous laser light exposure. The use of optical instruments with the laser equipment will increase eye hazard.

△ Atención

La modificación de los procedimientos, o la utilización de controles o ajustes distintos de los especificados aquí, pueden provocar una luz de láser peligrosa. Bajo ninguna circunstancia el usuario deberá realizar el mantenimiento del láser del escáner. Ni intentar mirar al haz del láser incluso cuando este no esté operativo. Tampoco deberá abrir el escáner para examinar el aparato. El hacerlo puede conllevar una exposición peligrosa a la luz de láser. El uso de instrumentos ópticos con el equipo láser puede incrementar el riesgo para la vista.

△ Attention

L'emploi de commandes, réglages ou procédés autres que ceux décrits ici peut entraîner de graves irradiations. Le client ne doit en aucun cas essayer d'entretenir lui-même le scanner ou le laser. Ne regardez jamais directement le rayon laser, même si vous croyez que le scanner est inactif. N'ouvrez jamais le scanner pour regarder dans l'appareil. Ce faisant, vous vous exposez à une rayonnement laser qu êst hazardous. L'emploi d'appareils optiques avec cet équipement laser augmente le risque d'endommagement de la vision.

△ Achtung

Die Verwendung anderer als der hier beschriebenen Steuerungen, Einstellungen oder Verfahren kann eine gefährliche Laserstrahlung hervorrufen. Der Kunde sollte unter keinen Umständen versuchen, den Laser-Scanner selbst zu warten. Sehen Sie niemals in den Laserstrahl, selbst wenn Sie glauben, daß der Scanner nicht aktiv ist. Öffnen Sie niemals den Scanner, um in das Gerät hineinzusehen. Wenn Sie dies tun, können Sie sich einer gefährlichen Laserstrahlung aussetzen. Der Einsatz optischer Geräte mit dieser Laserausrüstung erhöht das Risiko einer Sehschädigung.

△ Attenzione

L'utilizzo di sistemi di controllo, di regolazioni o di procedimenti diversi da quelli descritti nel presente Manuale può provocare delle esposizioni a raggi laser rischiose. Il cliente non deve assolutamente tentare di riparare egli stesso lo scanner laser. Non guardate mai il raggio laser, anche se credete che lo scanner non sia attivo. Non aprite mai lo scanner per guardare dentro l'apparecchio. Facendolo potete esporVi ad una esposizione laser rischiosa. L'uso di apparecchi ottici, equipaggiati con raggi laser, aumenta il rischio di danni alla vista.

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Customer Support

Technical Assistance

If you need assistance installing or troubleshooting your device, please call your distributor or the nearest technical support office:

North America/Canada

Telephone: (800) 782-4263

E-mail: hsmnasupport@honeywell.com

Latin America

Telephone: (803) 835-8000 Telephone: (800) 782-4263

E-mail: hsmlasupport@honeywell.com

Brazil

Telephone: +55 (11) 5185-8222 Fax: +55 (11) 5185-8225

E-mail: brsuporte@honeywell.com

Mexico

Telephone: 01-800-HONEYWELL (01-800-466-3993)

E-mail: soporte.hsm@honeywell.com

Europe, Middle East, and Africa Telephone: +31 (0) 40 7999 393

Fax: +31 (0) 40 2425 672

E-mail: hsmeurosupport@honeywell.com

Hong Kong

Telephone: +852-29536436

Fax: +852-2511-3557

E-mail: aptechsupport@honeywell.com

Singapore

Telephone: +65-6842-7155

Fax: +65-6842-7166

E-mail: aptechsupport@honeywell.com

China

Telephone: +86 800 828 2803 Fax: +86-512-6762-2560

E-mail: aptechsupport@honeywell.com

Japan

Telephone: +81-3-6730-7344 Fax: +81-3-6730-7222

E-mail: aptechsupport@honeywell.com

Online Technical Assistance

You can also access technical assistance online at www.honeywellaidc.com.

Product Service and Repair

Honeywell International Inc. provides service for all its products through service centers throughout the world. To obtain warranty or non-warranty service, contact the appropriate location below to obtain a Return Material Authorization number (RMA #) before returning the product.

North America

Telephone: (800) 782-4263

E-mail: hsmnaservice@honeywell.com

Latin America

Telephone: (803) 835-8000 Telephone: (800) 782-4263

Fax: (239) 263-9689

E-mail: laservice @honeywell.com

Brazil

Telephone: +55 (11) 5185-8222 Fax: +55 (11) 5185-8225

E-mail: brservice@honeywell.com

Mexico

Telephone: 01-800-HONEYWELL (01-800-466-3993)

Fax: +52 (55) 5531-3672

E-mail: mxservice@honeywell.com Europe, Middle East, and Africa Telephone: +31 (0) 40 2901 633 Fax: +31 (0) 40 2901 631

E-mail: euroservice@honeywell.com

Hong Kong

Telephone: +852-29536436 Fax: +852-2511-3557

E-mail: apservice@honeywell.com

Singapore

Telephone: +65-6842-7155

Fax: +65-6842-7166

E-mail: apservice@honeywell.com

China

Telephone: +86 800 828 2803 Fax: +86-512-6762-2560

E-mail: apservice@honeywell.com

Japan

Telephone: +81-3-6730-7344

Fax: +81-3-6730-7222

E-mail: apservice@honeywell.com

Online Product Service and Repair Assistance

You can also access product service and repair assistance online at www.honeywellaidc.com.

Honeywell Scanning & Mobility 9680 Old Bailes Road

9680 Old Bailes Road Fort Mill, SC 29707 www.honeywellaidc.com

