

**PSC**<sup>®</sup>

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***HS1250***



**USER'S GUIDE**

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#### **Disclaimer**

Reasonable measures have been taken to ensure that all information contained in this manual is complete and accurate. However, PSC reserves the right to change any specification at any time without prior notice.

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## ***HS1250***

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## PRODUCT OVERVIEW

The *HS1250*, a compact high-performance scanner, is designed to mount horizontally in your counter, leaving valuable checkstand 'real estate' clear for items and workspace. Designed for grocery and hypermarket applications, the *HS1250's* cast aluminum construction and rugged top design makes it ideal for high volume installations as well as moderate to low volume applications such as variety, drug and convenience stores.

Slide-through scanning enhances productivity and throughput, while eliminating the need to lift items being scanned. The *HS1250* also provides a connection for an optional undecoded handheld scanner, such as the PSC model *SP400*, allowing heavy or large items to be scanned without removal from the shopping cart.

The *HS1250's* sturdy design allows a couple of different mounting options. Power to the scanner is supplied via a remote AC/DC power supply, adding to the ease of installation. Advanced hardware and software afford the highest levels of scanning performance in the smallest possible package.

*HS1250* features include:


- aggressive scan pattern minimizes the need for label orientation
- flush horizontal mounting leaves the entire counter work space clear
- modular design allows easy use within multiple applications
- programmable features let the user customize scanner settings, optimizing performance and tailoring advanced features for each installation
- automatic shutdown activates when the scanner is left idle, prolonging scanner life and conserving power
- integrated motion sensor "knows" when you are ready to use it

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## MANUAL OVERVIEW

International symbols are used throughout this manual to provide a simple visual indication of the information being discussed. In most cases, each topic's name is preceded by a simple graphic.

For example  is the internationally recognized symbol for a speaker. Appendix A, *Symbol Definitions*, shows all the symbols used in this manual and describes their meaning. These symbols come from the International Electrotechnical Commission (IEC) Publication 417G, *Graphical Symbols for Use on Equipment*.

## OPERATIONAL OVERVIEW

The scanner has three operational states: Normal Mode, Sleep Mode and Programming Mode.

### NORMAL MODE

Normal Mode is the scanner state when it reads barcodes and sends label data to the host. When the scanner is idle in Normal Mode for a prolonged period of time, it transitions into Sleep Mode to conserve power and prolong scanner life.

### SLEEP MODE

Sleep Mode is the term used to describe the scanner's condition after the motor and/or laser have automatically switched off due to a prolonged period of inactivity.

### PROGRAMMING MODE

Entering Programming Mode allows you to change scanner features such as the speaker volume, scanner to host interface parameters, barcode symbologies, and laser and motor time-outs. When the scanner is in Programming Mode, you cannot scan normal barcodes and the scanner will not send data to the host.

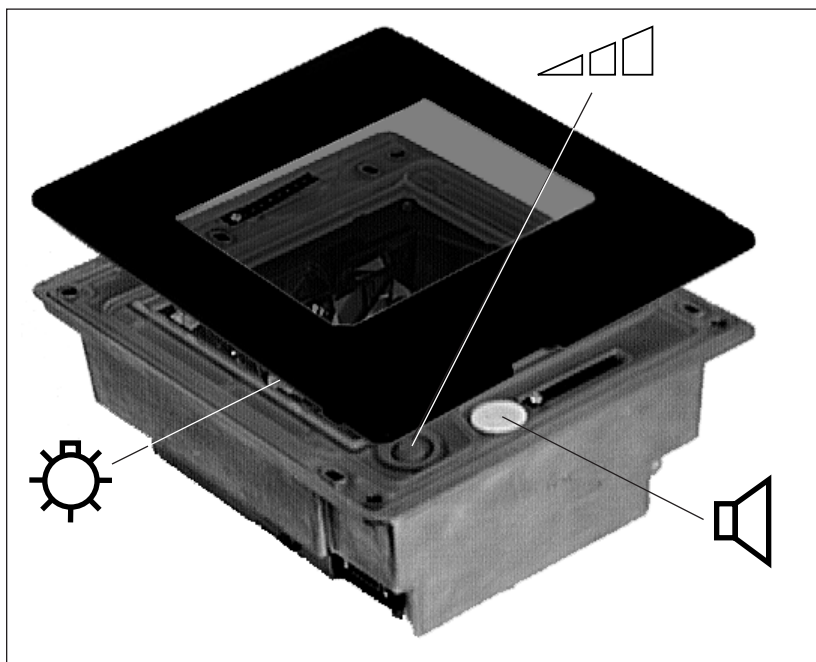
A Programming Kit for the *HS1250* is available from PSC or your dealer or distributor. Ask for part number R44-1340.

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## CONTROLS & INDICATORS

The descriptions on the following pages detail the function of the controls and indicators for the *HS1250*. Note that two of these items, the speaker and volume switch, are located beneath the scanner's top cover.



### VOLUME SWITCH

While the scanner is in Normal Mode and the green lamp is on dim, you can easily change the volume on the *HS1250* scanner by pressing the switch. The scanner has three volume settings available. When you press the switch, the scanner sounds a tone three times at the new volume setting. Each time you press the switch, the scanner sounds the next highest volume until it reaches the highest volume. After reaching the highest volume, pressing the switch again will return the volume to the lowest level.

When the scanner is turned off, the volume setting you selected using the switch will be lost. To change the volume permanently, use the Volume Selection labels in the Programming Kit (R44-1340).

---

## INDICATORS



The indicator lamp has six active modes; off, on dim, flash once, flashing continually once per second, flashing continually twice per second and repeating a series of flashes.

Off indicates that either there is no power to the scanner or the scanner is not operational.

On dim shows that the scanner is on and ready for operation. This is the normal operating condition.

Flashes once brightly when the scanner has read a barcode label. This is accompanied by a good read tone from the speaker unless the speaker has been turned off using programming labels.

Flashing once per second indicates the scanner has automatically shutdown due to a prolonged period of inactivity. This condition is referred to as "Sleep Mode" which extends the life of scanner components by removing power from the laser diode and motor when the scanner is not in use. The length of time that the scanner waits before going into Sleep Mode can be changed using the programming labels contained in the *HS1250/VS1200* Programming Kit (P/N R44-1340).

Flashing twice a second indicates that the scanner is in Programming Mode. The scanner will not read regular barcode labels or send data to the host when in this mode.

Flashes repeatedly accompanied by a repeated series of tones indicates a scanner failure has occurred.





## SPEAKER

The speaker produces an audible indication of scanner operation. It sounds a normal tone, an alternate tone, or an error tone (a repeating series of tones).

### **NORMAL TONE**

The normal tone sounds when a barcode label is recognized, its content is decoded and the data is transmitted to the host.

### **ALTERNATE TONE**

The alternate tone has a lower pitch than the normal tone. It is sounded in four different situations:

- In Normal Mode when the barcode has been read but the scanner is not programmed to transmit that symbology to the host.
- In Normal Mode when the *HS1250* cannot successfully decode a barcode label.
- When in Programming Mode, any programming label that your scanner cannot use (e.g. Baud Rate for any interface other than RS-232) is rejected and the alternate tone is sounded.

### **ERROR TONE**

The error tone alerts the operator of possible system or component failure and only sounds when a problem is detected.

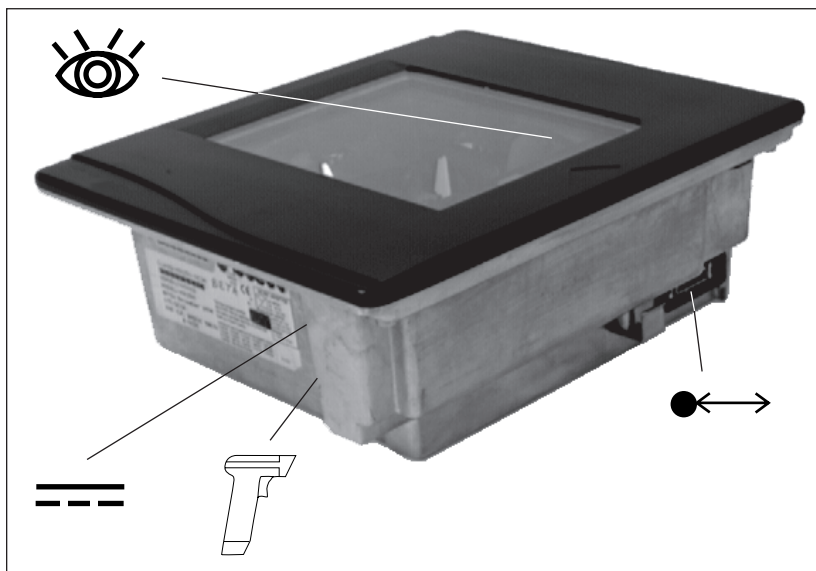
<b>Number of Tones</b>	<b>Failed Components</b>
1	Digital Board
2	VLD (Visible Laser Diode) Module
3	Motor
4	Digital Board
7	VLD (End of life)

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## CONNECTORS

Three cable connections are located on the scanner as shown below, with the DC power and Handheld connections in a niche near the serial number label and the Interface connection in a recessed area of an adjacent side of the scanner.



### ◀→ INTERFACE CONNECTOR

This connector provides the link between the scanner and the host. It transmits label data and communication signals between the scanner and the host.



### UNDECODED HANDHELD CONNECTOR

The *HS1250* model has a port that allows you to connect an undecoded (HHLC) scanner. Connecting a handheld scanner to this port allows you to scan heavy or large items without removing them from the shopping cart.

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## D.C. POWER CONNECTOR

The DC power connector is for attaching the AC/DC power supply to the scanner. This connector supplies +12VDC, -12VDC and +5VDC to the scanner.

### NOTE

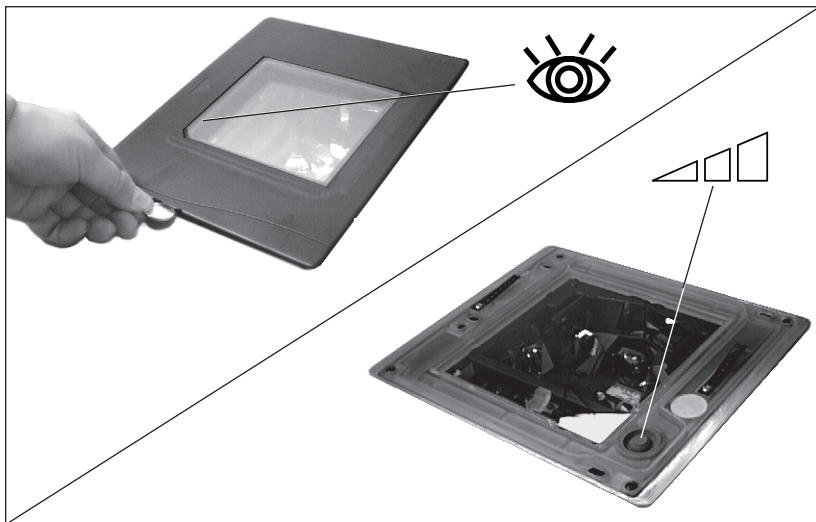
Use **ONLY** approved AC/DC power supplies ordered from PSC.

## ADDITIONAL FEATURE



### MOTION SENSOR

The scanner includes a motion sensor that detects activity in front of the scan window. Waving your hand or merchandise in front of the window wakes the scanner up when it is in Sleep Mode. In certain low level lighting conditions it may be necessary to press the volume switch to wake-up the scanner. Simply remove the top cover by using a coin in the coin slot to loosen and lift it, then press the volume switch to wake the scanner up.



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## UNPACKING

Before you open the *HS1250* shipping carton, inspect the carton for damage. If the carton is torn or crushed, carefully inspect the contents to ensure that no damage has occurred. Notify your carrier immediately if you think that there has been any damage to the contents.

When you open the shipping carton, you should find:

- User's Guide (in your hand)
- *HS1250* scanner
- AC/DC Power Supply
- IEC power cord
- Interface cable (if ordered)

If anything is missing or the wrong power cord or interface cable has been included with your scanner, contact your dealer, distributor or call your local PSC office. In the U.S. and Canada call PSC Customer Support Services at **(800) 547-2507**. Otherwise, refer to the list on the back cover for the subsidiary most convenient to you.

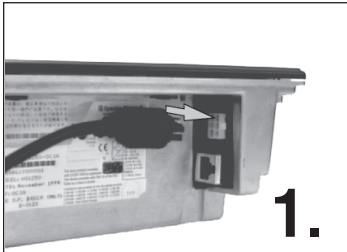
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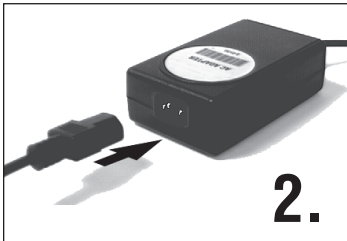
## VERIFYING SCANNER OPERATION

Prior to installation, we recommend that you connect the scanner and power supply to AC power to ensure that the scanner is fully functional.

1. Plug the DC power connector from the AC/DC power supply into the scanner.
2. Connect the IEC end of the AC power cord into the AC/DC power supply.
3. Plug the AC power cord into an AC power outlet.

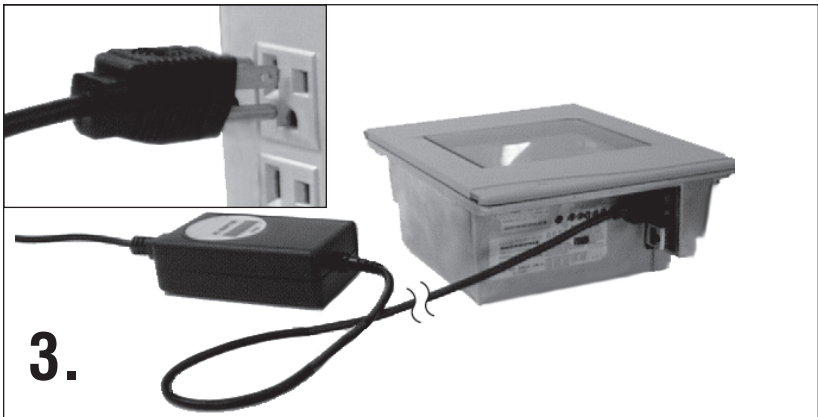


The scanner should emit a tone indicating that it has passed the Power-Up Self-Test routine, and the green lamp will light continuously indicating that the scanner is ready for operation. Since the scanner is not connected to a host terminal, it may only read one or two labels before it must be reset.



This is normal because some terminal interfaces require the scanner to store label data until the POS terminal signals that it is ready to receive the data.

If the scanner powers-up, but the green lamp begins flashing and the speaker repeats a series of tones, go to the section titled, *Problem Isolation*.

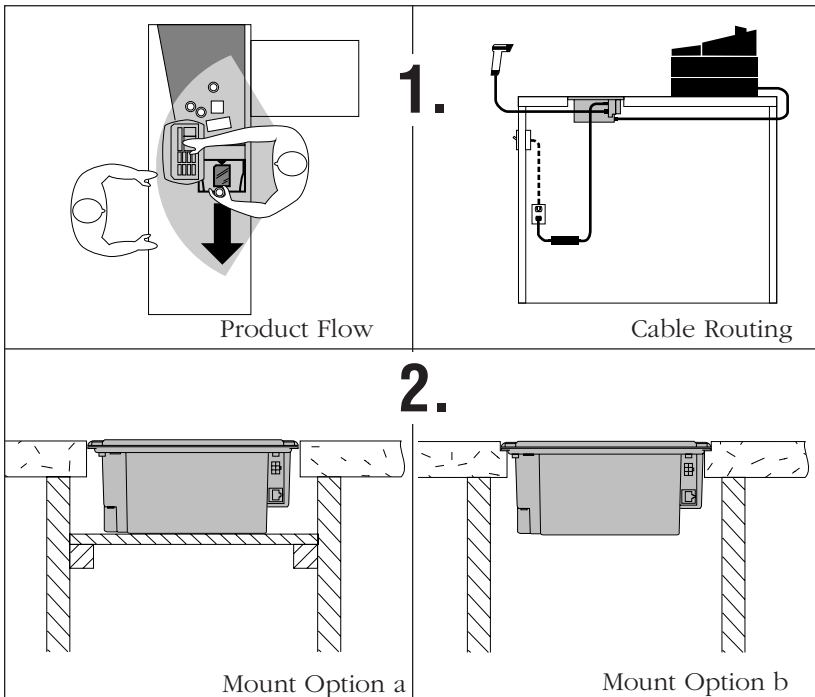


# INSTALLATION

## COUNTER MODIFICATION

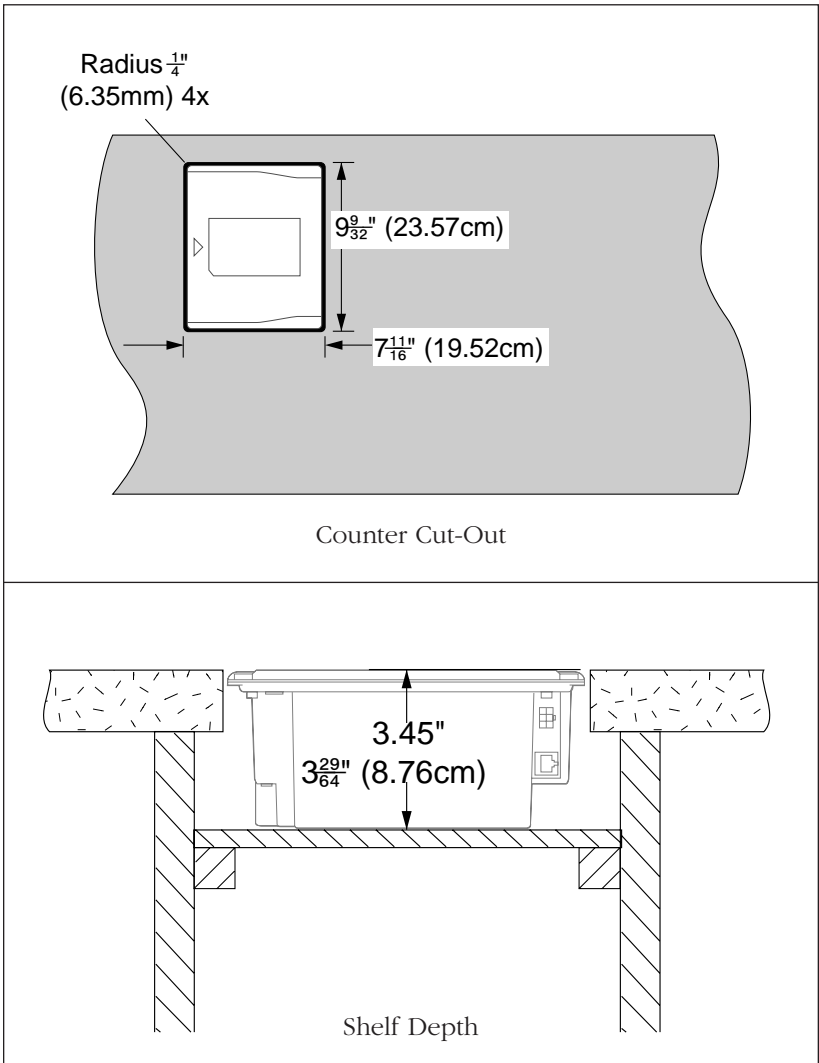
The *HS1250* scanner is designed to optimize usable counter space by mounting horizontally flush with the counter. The following instructions provide optional mounting plans, allowing flexibility in method, while ensuring a stable and secure installation.

1. Choose the installation location. Product flow, cable routing and ease of use should all be considered.
2. Because of its durable construction, the *HS1250* can be mounted with support from the bottom (Option a) or it can be mounted using a routed ledge to support only the “wings” located on both ends of the scanner (Option b).



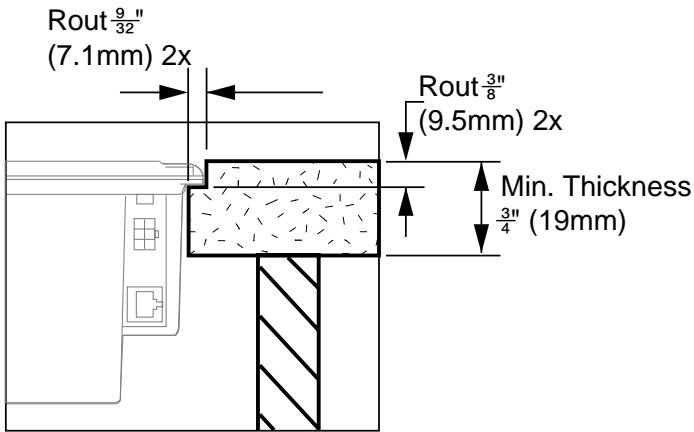
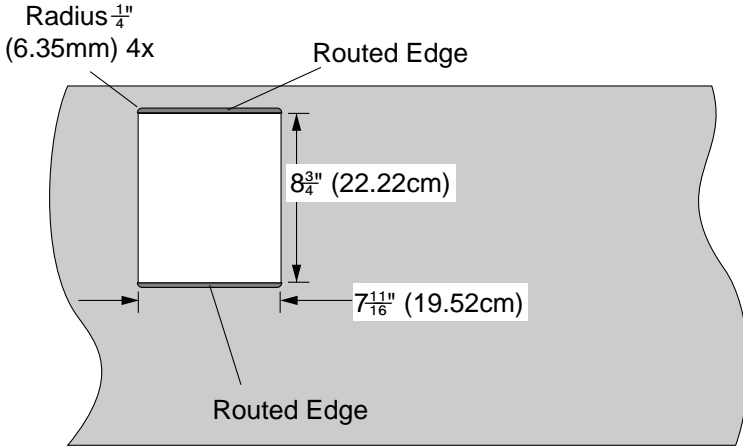
3. For Option a, cut a hole in the countertop using the dimensions below, with a corner radius of  $\frac{1}{4}$ " (6.35mm). The shelf supporting the scanner should be 3.45" (closest fractional =  $\frac{3^{29}}{64}$ ) (8.76cm) below the top of the counter.

### OPTION A



- For Option b, reference the counter cutout dimensions below. Radius corners at  $\frac{1}{4}$ " (6.35mm). To adequately support the scanner, counter thickness must be at least  $\frac{3}{4}$ " (19mm).

### OPTION B





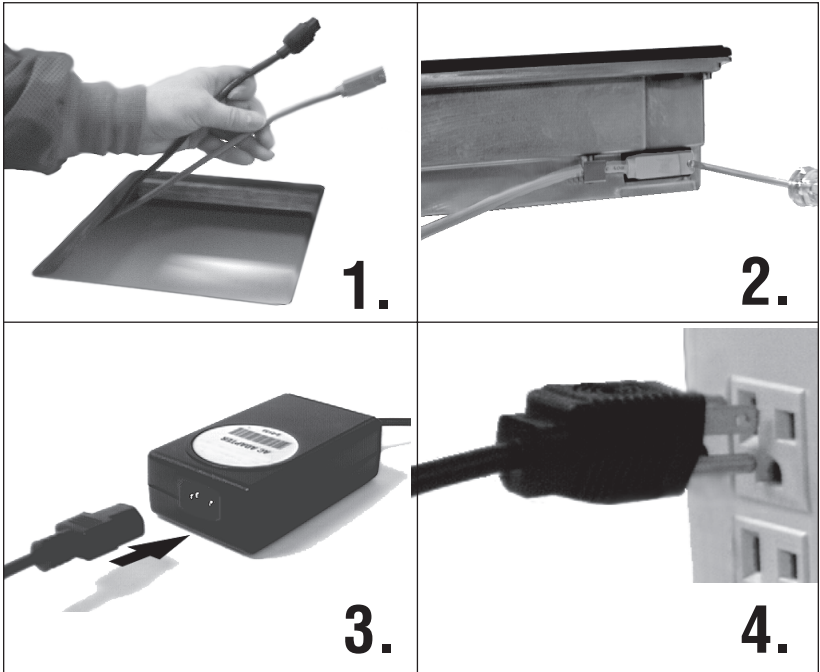
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## HOOKUP

1. Route all cables up through the opening.
2. Connect the interface cable to the scanner and secure it with the mounting screw, ensuring that the cable is routed inside the cable clip.
3. Attach the DC power connector from the AC/DC power supply to the scanner's power connector.
4. Connect the IEC power cord to the AC/DC power supply.

You are now ready to power-up the scanner and POS system. Since power-up procedures vary for different systems, contact the site technical support specialist, reference the POS system operator's manual, or consult the manufacturer to ensure that these procedures are performed properly.



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## POWER-UP PROCEDURE

The system power-up procedure may vary depending on the requirements of your Point-of-Sale (POS) system. It is always a good idea to power-down (switch off) all equipment prior to connecting cables. Check with your system supervisor and/or refer to the terminal operator's manual for proper power-down and power-up procedures for your system.

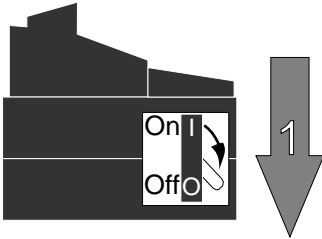
Before beginning this procedure, disconnect power from the scanner (if connected).

1. Power-down your terminal.
2. Connect the scanner interface cable to the POS terminal.
3. Connect the IEC power cord to the AC/DC Power Supply and then to an AC outlet. It is recommended that the IEC power cord of the AC/DC power supply be connected to the same AC outlet as used by the POS terminal.
4. Power-up the terminal.
5. Power-up the scanner.
6. Verify that data is being properly communicated between the scanner and your POS terminal by scanning a few items.

You have completed the scanner installation and power-up procedures. If problems occur, follow the procedures titled Problem Isolation on the next page.

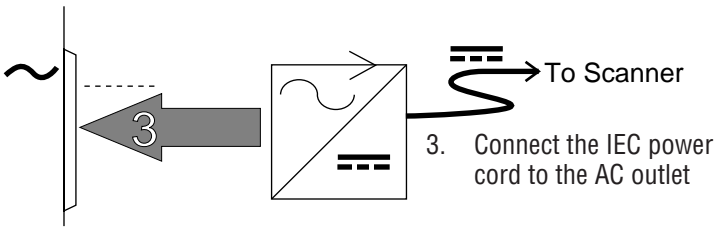
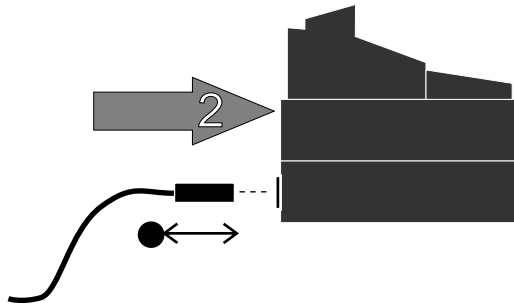
If you want to modify the scanner's interface parameters or change the user interface (e.g. volume), order the HS1250/VS1200 Programming Kit (PSC Part Number R44-1340).

## CONNECTING THE SCANNER



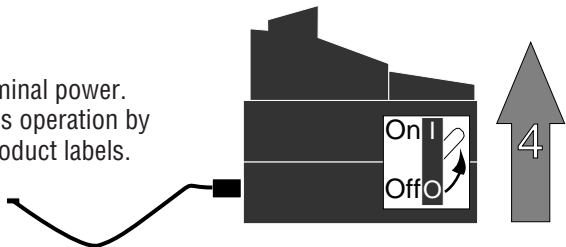
1. Switch the terminal power off.

2. Connect the interface cable to the terminal.



3. Connect the IEC power cord to the AC outlet

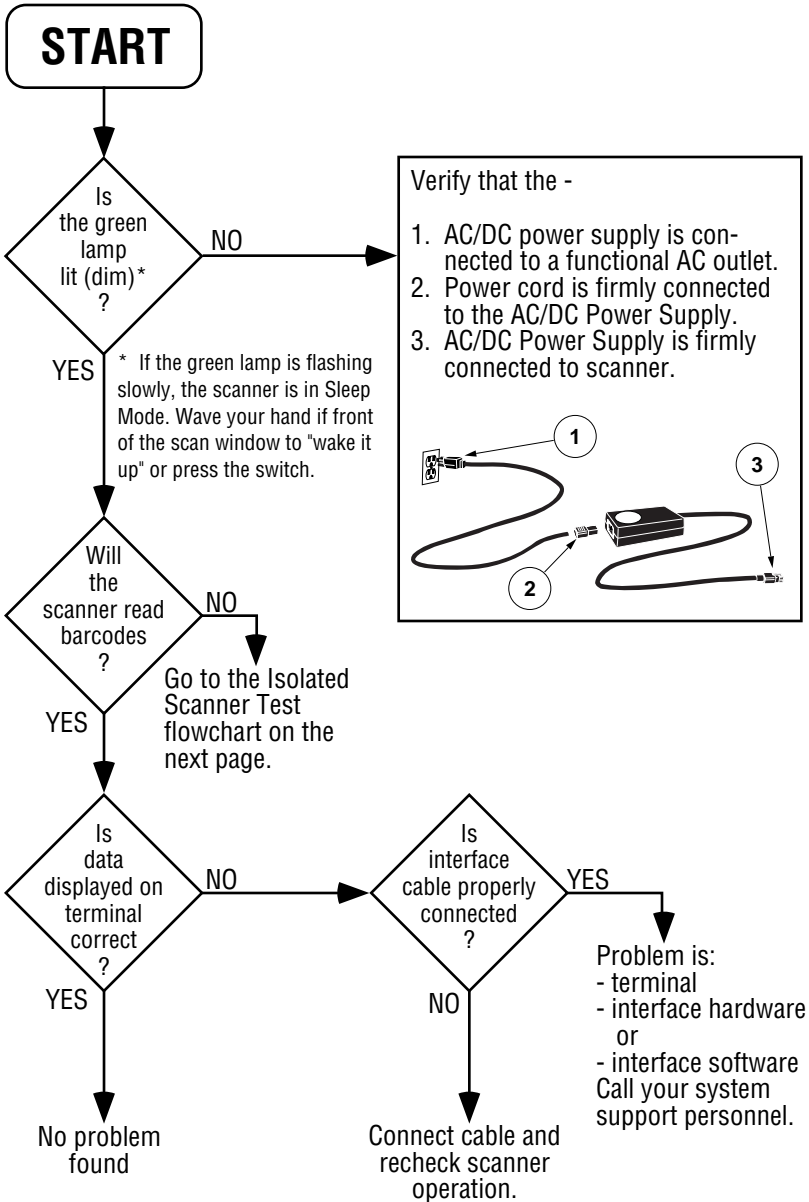
4. Switch on the terminal power. Verify the system's operation by scanning a few product labels.



5. You have completed the installation procedures.

# TROUBLESHOOTING

## PROBLEM ISOLATION



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# TROUBLESHOOTING

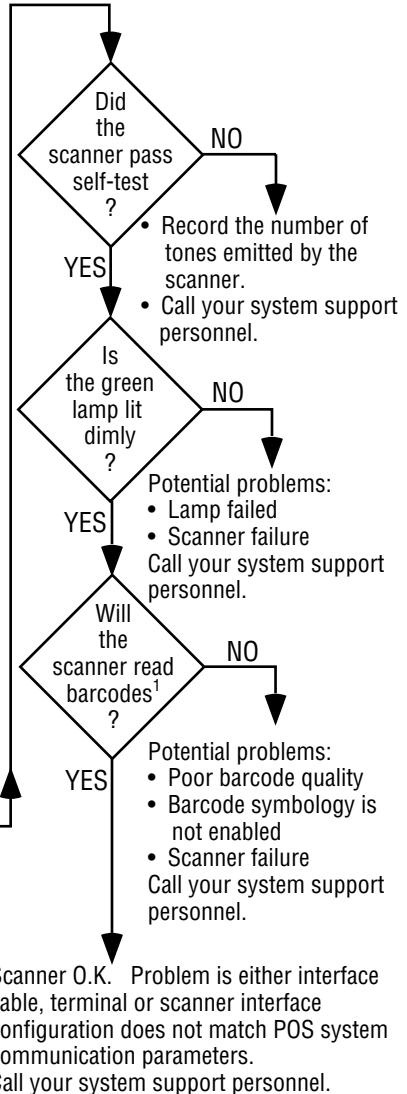
## ISOLATED SCANNER TEST

**1. DISCONNECT POWER**  
Disconnect the AC/DC Power Supply from the AC power outlet.

**2. DISCONNECT INTERFACE**  
Disconnect the interface cable between the scanner & the terminal.

**3. RECONNECT POWER**  
After you have disconnected the scanner-to-terminal interface cable, reconnect the power cable.

**4. SELF-TEST ROUTINE**  
The scanner performs a complex power-up self-test that checks the operations of the scanner hardware and software. If successful, the speaker sounds a tone and the green lamp lights indicating the scanner passed self-test.



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<sup>1</sup> When the interface cable has been disconnected and reconnected, the scanner may read one or two labels before it must be reset.

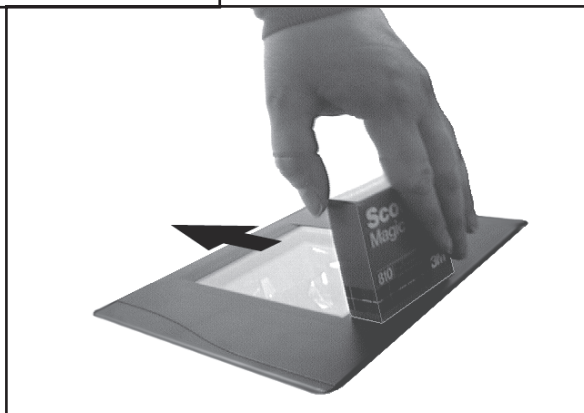
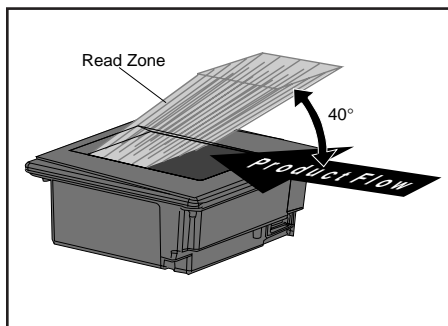


## HOW TO SCAN WITH THE *HS1250*

The *HS1250* is mounted flush with the countertop to allow maximum work area and enable slide-through scanning. A dense scan pattern ensures that a barcode is easily read when swept over the scan window in the direction of the arrow. The scanner's Read Zone, extends approximately 6" (15.24 cm) above the window, angled at approximately 40° from the counter and expands as you move away from the scanner's window.

When the barcode is swept through the Read Zone, the scanner immediately reads the label, successfully completing the scanning operation.

**Optimum scanner performance is obtained by facing the label toward the scanner and sweeping it over the scan window. Refer to the arrow on the scanner's top, which indicates optimum product flow direction.**



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## CUSTOMIZING YOUR SCANNER'S OPERATION

Customizing or programming a scanner provides maximum flexibility and allows a single scanner to serve many installation environments. Since the *HS1250* supports a variety of interface configurations and barcode symbologies, it may be necessary to customize your scanner to meet the specific requirements of your retail environment. The two features that follow, Changing the Tone and Changing the Volume, are examples of special barcode labels that affect the scanner's operation.

The list on page 24 shows the additional features that may be changed using the labels contained in the Programming Kit (PSC part number R44-1340).



### CHANGING THE TONE

There are three possible tone selections. Each time you scan this label, the scanner's tone will change to the next highest tone. If the current tone is the highest selection, the selection will return to the lowest setting.

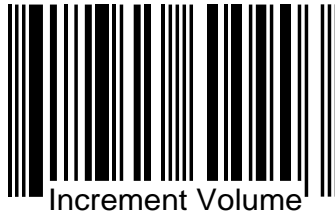


Increment Tone



## CHANGING THE VOLUME

There are three possible volume settings. Each time you scan this label, the scanner's volume will change to the next highest level. If the current volume is the highest selection, the selection will return to the lowest setting.





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# PROGRAMMING

Programming describes the process of changing scanner features using the special barcode labels contained in the Programming Kit (R44-1340). When the scanner is placed in Programming Mode, the scanner will not read any standard barcode labels or transmit any data to the host.

The Programming Kit contains a description of Programming Mode and complete instructions for customizing your scanner's features.

## OTHER PROGRAMMABLE FEATURES

Symbology selection:	<ul style="list-style-type: none"><li>- UPC-A, UPC-E, EAN-8, EAN-13</li><li>- EAN/JAN 2 label pairs</li><li>- Code 39*</li><li>- Codabar*</li><li>- Interleaved 2 of 5*</li><li>- Code 128*</li></ul>
Symbology specific parameters	<ul style="list-style-type: none"><li>- Interleaved 2 of 5 label lengths</li><li>- Checksum, prefix &amp; start/stop bit control</li><li>- Price weight check digit control</li><li>- Double Read Time-out</li><li>- UPC expansion</li></ul>
RS-232 Communication parameters	<ul style="list-style-type: none"><li>- Baud Rate</li><li>- Parity</li><li>- Handshaking</li><li>- Stop Bits</li></ul>
General Features	<ul style="list-style-type: none"><li>- Motor time-out</li><li>- Laser Time-out</li><li>- Volume Selection</li></ul>

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\* Enabling any of these "industrial codes" disables the Edge (label assembly) software.



## ROUTINE MAINTENANCE

HS1250 maintenance procedures consist of window cleaning and window replacement.

### CLEANING

The scanner actually has two windows; upper and lower. While the top of the upper scan window may require periodic cleaning due to spillage, surface dust, etc., other window surfaces are unlikely to need much attention. In the event you do need to clean them, here's how:



#### NOTE

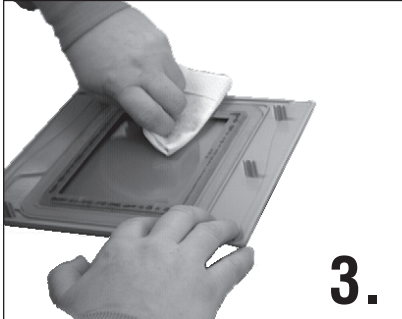
Although the scanner windows are made of high quality, scratch resistant glass, they should not be subjected to abrasive cleaners or pads. Additionally, do not use alcohol or acetone.



Reference the illustrations on page 25.

1. Insert a coin into the slot along the scanner's edge and use it to gently pry the top cover from the scanner.
2. Spray ordinary glass cleaner onto a lint free, nonabrasive cleaning cloth.
3. Gently wipe the underside of the upper window.
4. Clean the top surface of the lower window as needed.
5. Reinstall the top cover, inserting the alignment tabs in their respective slots. Press down along all edges to seat.
6. Clean the upper window top surface as described above.

This completes the window cleaning instructions.



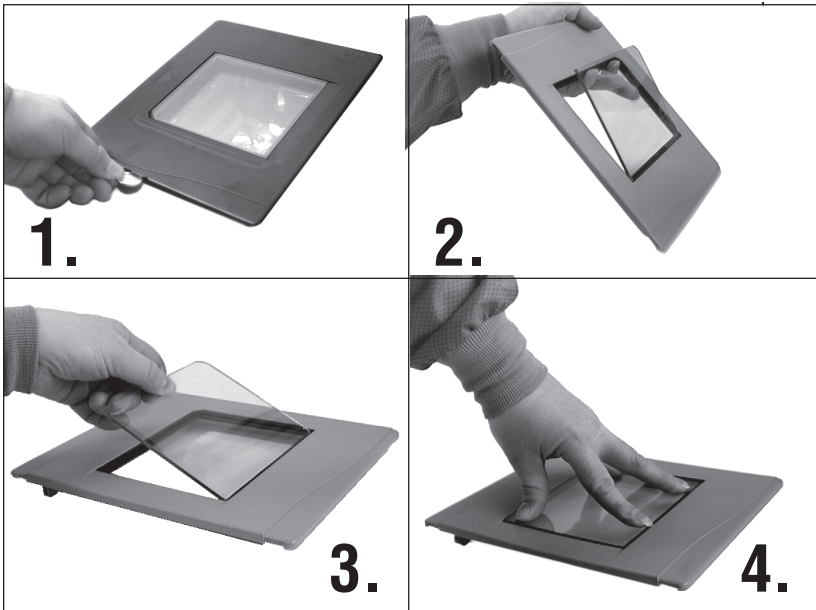
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## WINDOW REPLACEMENT

If the scanner's upper window becomes scratched, it can be easily replaced by following the procedures on this page.

1. Insert a coin into the slot on the scanner's edge and use it to gently pry the top cover from the scanner.
2. Grasp the top cover firmly and carefully press the window out from the bottom side. Use care to avoid dropping the window as it pops loose from the seal and remember to dispose of it properly.
3. Press one edge of the window against its seal, aligning the notched corners and ensuring that the seal is not pinched or rolled.
4. Tilt the window into place, pushing down firmly to seat the glass along all edges.
5. Clean the windows and replace the top cover as described under Cleaning.

This completes the window replacement procedure.

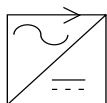


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# APPENDIX A

## SYMBOLS DEFINITIONS

We have selected the symbols on the following pages to help ensure clear communication with non-English speaking users.



----- **A.C. TO D.C CONVERTER**



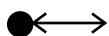
----- **A.C. CURRENT**



----- **BRIGHTNESS/SUNLIGHT**



----- **CLEANING**



----- **COMMUNICATION, BIDIRECTIONAL**



----- **D.C. CURRENT**



----- **HUMIDITY**



----- **LAMP, VISUAL INDICATOR**



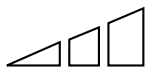
----- **MOTION SENSOR**



----- **OPERATOR**



----- **SPEAKER**



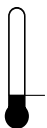
----- SWITCH, VOLUME



----- TONE



----- TEMPERATURE, MAXIMUM



----- TEMPERATURE, MINIMUM



----- VOLTAGE, DANGEROUS

---

# APPENDIX B

## SPECIFICATIONS

### PHYSICAL SPECIFICATIONS

#### SCANNER



Depth = 3.45" (8.76cm)  
Length = 7.6" (19.3cm)  
Width = 9.0" (22.9cm)  
Weight = 4 lb 11oz (2.13 kg)

#### AC/DC POWER SUPPLY



Length = 5.0" (12.7 cm)  
Width = 3.0" (7.6 cm)  
Height = 1.5" (3.8 cm)  
Weight = 1.0 lb (.6 kg)



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# ENVIRONMENTAL SPECIFICATIONS

## OPERATION

### TEMPERATURE



10°C (50°F)



40°C (104°F)

### HUMIDITY



5 - 90 % (non-condensing)

### AMBIENT LIGHT



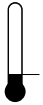
200 footcandles (2150 Lux) maximum

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## STORAGE

### TEMPERATURE



-40°C (-40°F)



70°C (158°F)

### HUMIDITY



5 - 95 % (non-condensing)

# ELECTRICAL SPECIFICATIONS

## USE ONLY POWER SUPPLY (P/N 8-0133) OR OTHER PSC APPROVED POWER SUPPLY.

The AC/DC Power Supply provides three dc voltages to the *HS1250* ; +12 volts, -12 volts and +5 volts. Typical current draw is:

+12vdc .....	315mA (normal operation)
.....	665mA (during start-up)
-12vdc .....	45mA
+5vdc .....	230mA

Typical power consumption is approximately 5.5 watts during operation, 9.7 watts during start-up and 4.4 watts in Sleep Mode.

## INPUT POWER

The *HS1250* scanner receives DC power from an external power supply.

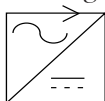
### EXTERNAL POWER SOURCE



90- 265 VAC      47 - 63 Hz      < 10.0 Watts

### AC TO DC POWER SUPPLIES

*HS1250* uses one power supply equipped with an IEC power cord that matches your country's requirements. This unit accepts all of the following line voltages.



COUNTRY	AC VOLTAGE
Australia -----	240
Benelux-----	220
Canada -----	115/120
France-----	220
Germany -----	220
Italy -----	220
Japan -----	100
Mexico -----	115/120
Scandinavia -----	220
Spain -----	220
United Kingdom -----	240
United States -----	115/120

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# APPENDIX C

## REGULATORY AGENCY INFORMATION

### FCC STATEMENTS

This device complies with Part 15 of the FCC rules and the Radio Interference Regulation of the Canadian Department of Communications for a Class A computing device. Operation is subject to the following two conditions:

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

This equipment has been tested and found compliant 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 or her own expense.

The electrical socket for this product must be located near the scanner and be readily accessible to the operator.

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## **CERTIFICATE OF MANUFACTURE/IMPORTER**

This is to certify that the *HS1250* scanner is shielded against radio interference in accordance with the provisions of VDE 0871 B.

This product complies with the EMC Directive which allows PSC to affix the CE mark to the product. Compliment consist of meeting the EMC Directive (89/336/EEC + 92/31/EEC + 96/68/EEC) for electromagnetic compatibility within the European communities.

PSC INC.

## **AGENCY COMPLIANCE**

The *HS1250* scanner meets or exceeds the requirements for its device type as set forth by the following agencies and regulations:

### **ELECTRICAL**

- Underwriter's Laboratories, UL Standard 1950, for Electrical Safety
- Canadian Standards Association, Standard for Electrical Safety, #22.2 no. 950-M89
- TÜV Electrical Safety, according to EN60 950, VDE 0805

### **EMISSIONS**

- United States Federal Communications Commission, Class A Emission Limits defined by Part 15, Subpart J, 47CFR
- VDE DIN 0878 Level B, EN 55 022 Class B, Vfg 243/1991 (Germany)
- VCCI Class 1 (Japan)

### **LASER SAFETY**

- United States Laser Safety, CDRH Class IIa (Reference 2.5)
- Laser Safety, Class I, according to IEC 825-1:1993 and EN60825-1:1994

# SCANNER LABELING

This artwork shows label placement ONLY. For actual regulatory, patent and other applicable information, view the labels on the product itself, or call your nearest sales or service office.

**U.S.,  
CANADA,**  
Class IIa Laser  
Product. Avoid  
long term  
viewing of direct  
laser light.  
Appareil à laser de  
classe IIa. Éviter  
toute exposition  
prolongée de  
la vue à  
lumière laser  
directe.



**CLASS 1 LASER PRODUCT  
LASER KLASSE 1  
APPAREIL À LASER DE CLASSE 1**  
based on 100 sec., IEC 825-1:1993



**PSC** PSC Inc.  
500 Oak Street  
Beverly Hills, CA 91601

**UL** **UL** **NSD** **FI**

Listed  
NRTL  
2278

**CE**

**AC/DC ADAPTER**  
Funksortort  
Vtg. 240V/50Hz  
This laser product complies  
with IEC 60950 in application.  
This device complies with Part 15  
of the FCC Rules as a Class A device.

**TUV** **GS**

COVERED BY ONE OR MORE OF THE FOLLOWING PATENTS:  
Other Patents Pending

CLASS: 22200-0000050-00  
SERIAL: X9999999  
MODEL: HS1250  
MFTD: Feb 1995  
I/F: RS-232  
BRICK: 8-0133

AC INPUT:  
50 - 60 Hz  
0.25 - 0.5A  
100 - 250 VAC  
DC OUTPUT:  
+5VDC @ 1.0A  
+12VDC @ 0.20A  
POWER:  
17 Watts (max)

Brick Use ONLY PSC AC/DC Power Supply  
P/N 8-0133

**EAS**

この装置は、南米地域で使用され  
らるべき第一級品で構成です。電池地  
域又はその類似した地域で使用す  
るラジオ、テレビジョン送信機等に  
干渉を引き起こす可能性があります。  
ICCS-1

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## LASER SAFETY INFORMATION

The *HS1250* scanner requirements for laser safety are based on IEC Standard Publication 825 and CDRH 21CFR, Chapter 1, Subchapter J and (CDRH) Laser Product Performance Standard published November 28, 1978, User information [1040.10(h)1]:

1. **User Maintenance.** No user maintenance of the system other than window replacement and cleaning is required.
2. **Radiant Energy.** This product uses an embedded Class 3B Visible Laser Diode (VLD) system operating at 670nm in an optomechanical scanner resulting in less than  $652\mu\text{W}$  peak output power as measured by IEC 825 Class 1 specification with the outer window removed. Radiated power observed 20cm above the top deck through a 7mm aperture is less than  $2.5\mu\text{W}$  per CDRH Class IIa specification.
3. **Laser Light Viewing.** The scanner's window is the only aperture through which laser light may be observed in this product.
4. No adjustments or alteration of the scanner's housing are to be attempted by the user.
5. The failure of the scanner motor while the unit is continuing to emit a laser beam causes the emission levels to exceed those for inherently safe operation. This scanner has safeguards to prevent this occurrence. If, however, a stationary laser beam is ever emitted, the failing unit should be disconnected from its power source until repaired by a qualified technician.

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## ENGLISH

The *HS1250* scanner is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J for Class IIa laser products. The *HS1250* is also certified as a Class I laser product to the requirements of IEC 825-1:1993.

Class I and Class IIa products are not considered to be hazardous. The *HS1250* contains internally a Visible Laser Diode (VLD) that emits a maximum of 0.652 milliwatts at a wavelength of 670 nanometers. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or during prescribed service operations.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous laser light.

CAUTION: Do not attempt to open or otherwise service any component in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations. The optics system is a factory only repair item.

CAUTION: Use of optical instruments with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes and magnifying glasses. This does not include eye glasses worn by the user.

## DANISH

*HS1250* opfylder de amerikanske krav stillet i "DHHS/CDRH 21 CFR Subchapter J" for klasse IIA (class IIa) laserprodukter. *HS1250* er også godkendt som et klasse I (class I) laserprodukt, der opfylder kravene i IEC 825-1:1993.

Klasse I (class I) og klasse IIa (class IIa) produkter anses for at være sikre. *HS1250* indeholder en Visible Laser Diode (VLD), der udsender maksimalt 0.652 mW ved en bølgelængde på 670 nm. Scanneren er konstrueret, så der ikke er nogen mulighed for menneskelig kontakt med skadelige niveauer af laserbestråling under normal brug, normal vedligeholdelse, eller autoriseret reparation.

### ADVARSEL

Dette produkt er af sikkerhedsmæssige grunde udstyret med en ledning med 3 ledere og en 3-benet stikprop. Denne ledning bør altid bruges i forbindelse med en 3-bent jordforbundet elektrisk stikkontakt for at undgå ledetrisk stød.

### ADVARSEL

Anvendelse af andre kontrolmetoder justeringer m.m. end dem specificeret i denne vejledning kan medføre eksponering til farlige niveauer af laserbestråling.

### ADVARSEL

Forsøg ikke at åbne eller reparere komponenter i det optiske hulrum. Uautoriseret åbning eller reparation af komponenter i det optiske hulrum kan være en overtrædelse af lasersikkerhedsregulativer. Det optiske system med udelukkende repareres af PSC autoriserede reparationscentre.

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## FINNISH

*HS1250* on hyväksytty Yhdysvalloissa vastaamaan DHHS/CDRH 21CFR Subchapter J luokka IIa (Class IIa) lasertuotteille asetettuja vaatimuksia. *HS1250* on myös hyväksytty vastaamaan IEC 825-1:1993 vaatimuksia I luokan (Class I) lasertuotteille.

Luokka I (Class I) ja luokka IIa (Class IIa) tuotteiden ei katsota olevan vaarallisia. *HS1250* on sisäinen Visible Laser Diode (VLD) joka säteilee enintään 0,652 milliwattia 670 nanometrin aallonpituudella. Tutkain on suunniteltu siten, että sen käyttäjä ei joudu kosketuksiin vaarallisten laservalotasojen kanssa tutkaimen normaalikäytön, huoltotoimenpiteiden tai ohjeiden mukaisten huolotöiden aikana.

### VAROITUS:

Tämä tuote on varustettu maadoitetulla virtajohtimella ja pistokytkimellä käyttäjän turvallisuuden takaamiseksi. Yhdistä tämä virtajohdin maadoitettuun pistorasiaan sähköiskun välttämiseksi.

### VAROITUS:

Laitten käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokka I ylittävälle näkyvälle lasersätelylle.

### VAROITUS:

Älä yritä avata tai muuten huoltaa mitään komponentteja optisessa osassa. Mikäli epäpätevä henkilö korjaa tai avaa jonkin komponentin optisessa osassa, voidaan tämän katsoa olevan rikkomus turvallisuusohjeita vastaan. Optinen systeemi on osa, joka voidaan korjata ainoastaan tehtaalla.

## FRENCH

Le *HS1250* est certifié conforme aux conditions requises par la norme DHHS/CDRH 21CFR, sous-chapitre J, concernant les appareils à laser de classe IIa aux Etats-Unis. Le *HS1250* est aussi certifié en tant qu'appareil à laser de classe I conforme aux conditions requises par la norme IEC 825-1:1993.

Les produits de classe I et classe II ne sont pas considérés comme dangereux. Le *HS1250* contient une diode laser visible (VLD) qui émet une puissance maximum de 0,652 milliwatts pour une longueur d'onde de 670 nanomètres. Le scanneur est conçu pour que l'accès à des niveaux dangereux de lumière laser ne soit pas possible pendant l'utilisation normale, l'entretien par l'utilisateur ou les fonctions de dépannage recommandées.

### ATTENTION

Ce produit est équipé d'un cordon d'alimentation à trois fils et d'une prise à trois broches pour la sécurité de l'utilisateur. Ce cordon doit être branché sur une prise de courant avec mise à la terre pour éviter les chocs électriques.

### ATTENTION

L'utilisation de procédures de contrôle, réglage ou utilisation autres que celles spécifiées dans ce document peut entraîner une exposition dangereuse à la lumière du laser.

### ATTENTION

Ne pas essayer d'ouvrir ni de réparer les composants de la cavité optique. L'ouverture ou la réparation d'une partie de la cavité optique par une personne non qualifiée peut entraîner la violation des règles de sécurité relatives au laser. Le système optique ne peut être réparé qu'en usine.

### ATTENTION

L'utilisation d'instruments optiques avec le scanneur augmentera le danger pour les yeux. Les instruments optiques comprennent les jumelles, les microscopes et les loupes. Ils ne comprennent pas les lunettes portées par l'utilisateur.



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## GERMAN

Der *HS1250* entspricht den in den Vereinigten Staaten geltenden Vorschriften des DHHS/CDRH 21CFR Subchapter J für Laserprodukte der Klasse IIa (Class IIa). Der *HS1250* ist ferner als ein Laserprodukt der Klasse I (Class I) nach den Vorschriften der IEC 825-1:1993 zugelassen.

Produkte der Klasse I (Class I) und der Klasse IIa (Class IIa) sind als ungefährlich eingestuft.

Der *HS1250* enthält eine VLD Diode, die maximal 0,652 Milli watt auf einer Wellenlänge von 670 Nanometer ausstrahlt. Der Scanner ist so konstruiert, daß während des normalen Betriebs, der Wartung durch den Benutzer oder der vorgeschriebenen Wartungsvorgänge kein Zugang zu schädlichen Laserlichtstufen möglich ist.

### VORSICHT

Dieses Produkt ist zur Sicherheit des Benutzers mit einem Dreileiter-Stromversorgungs Kabel und Stecker ausgestattet. Benutzen Sie dieses Kabel in Verbindung mit einer korrekt geerdeten Steckdose, um einen elektrischen Schlag zu vermeiden.

### VORSICHT

Jegliche Anwendung von Streuungen, Reglern oder anderen verfahren, die nicht in diesen Ausführungen erwähnt werden, können eine gefährliche Laserlichtbestrahlung zur Folge haben.

### VORSICHT

Das optische System darf nur vom Werk repariert werden. Das Öffnen oder Warten von Bestandteilen des optischen Hohlraums durch unbefugtes Personal verletzt die Laser-Sicherheitsbestimmungen.

## DUTCH

De *HS1250* is in de V.S. goedgekeurd en voldoet aan de eisen van DHHS/CDRH 21CFR Subchapter J voor Klasse-IIa (Class IIa) laserprodukten. De *HS1250* is ook goedgekeurd als een klasse-1 (Class 1) laserprodukt volgens de eisen van IEC 825-1:1993.

Produkten van klasse-1 (Class 1) en klasse-11a (Class 11a) worden niet geacht gevaarlijk te zijn. De *HS1250* bevat een inwendige Visible Laser Diode (VLD) buis, die maximaal 0,652 milliwatt uitzendt bij een golflengte van 670 nanometer. De scanner is zo ontworpen dat men bij normaal gebruik, tijdens onderhoud of bij het uitvoeren van de voorgeschreven onderhoudswerkzaamheden niet aan schadelijke niveaus van worden blootgesteld.

### WARRSCHUWING

Dit produkt is met een geaard snoer plus stekker uitgerust ter bescherming van de gebruiker, Sluit dit snoer op een goed geaard stopcontact aan teneinde elektrische schokken te voorkomen.

### WARRSCHUWING

Men kan aan gevaarlijk laserlicht worden blootgesteld als de apparaten niet goed worden bedand of afgestied of de procedures niet worden uitgevoerd zoals hierin beschreven staat.

### WARRSCHUWING

Proeer niet om onderdelen in de optica-ruimte te openen of er op enige wijze onderhoud aan uit te voeren. Openen of onderhoud van delen in de optica-ruimte door onbevoegd personeel kan in strijd met de laserveiligheidsreglementen. Het optica-systeem mag alleen in de fabriek worden gerepareerd.

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## ITALIAN

*HS1250* è stato certificato negli Stati Uniti in conformità alle norme DHHS/CDRH 21 CFR Subchapter J per i prodotti laser della categoria IIa. *HS1250* è anche certificato come prodotto laser di categoria I, secondo le norme IEC 825-1:1993.

I prodotti delle categorie I e IIa non sono considerati pericolosi. *HS1250* contiene all'interno un diodo a laser visibile (VLD), che emette un massimo di 0,652 milliwatt ad una lunghezza d'onda di 670 nanometri. Il lettore è stato progettato in modo che sia impossibile l'accesso umano a livelli nocivi di luce laser nel corso del normale funzionamento o della manutenzione da parte dell'utente o durante gli interventi di riparazione previsti.

### ATTENZIONE

Il prodotto è dotato di un cordone elettrico a tre fili e di una spina di sicurezza. Per evitare scosse, usare il cordone in una presa fornita di presa di terra.

### ATTENZIONE

L'uso di comandi o di procedure diversi da quelli specificati in questa sede possono causare l'esposizione ad una luce laser pericolosa.

### ATTENZIONE

Evitare di tentare di aprire o riparare dei componenti nella cavità ottica. L'apertura o la riparazione della cavità ottica da parte di persone non autorizzate può essere in violazione dei regolamenti di sicurezza relativi all'impiego di raggi laser. Il sistema ottico può essere riparato solo in fabbrica.

## NORWEGIAN

*HS1250* er godkjent i USA i samsvar med retningslinjer for DHHS/CDRH 21CFR Subchapter J for Klasse IIa (Class IIa) laserprodukter. *HS1250* er også godkendt som et klasse I (Class I) laserprodukt, i samsvar med retningslinjer fra IEC 825-1:1993.

Klasse I (Class I) og Klasse IIa (Class IIa) produkter regnes ikke for å være helsefarlige. *HS1250* har et innvendig Visible Laser Diode (VLD) rø som avgir maksimum 0.652 milliwatt på en 670 nanometers bølgelengde. Skanneren er utformet slik at det er ikke mulig for personer å utsettes for skadelige doser av laserstråler ved normal behandling, brukers vedlikehold eller ved foreskrevet service.

### ADVARSEL

Dette produkt er utstyrt med en tretråds elektrisk ledning og støpsel for brukers sikkerhet. Bruk denne ledningen i forbinelse med en korrekt jordet elektrisk stikkontakt for å unngå elektrisk sjokk.

### ADVARSEL

Reguleringer, justeringer eller andre framgangmåter som avviker fra det som her er spesifisert, kan resultere i at man utsettes for farlig laserlys.

### ADVARSEL

Forsøk ikke å åpne eller på noen måte repareres komponenter i det optiske kammeret. Ingen del av det optiske kammeret må åpnes eller repareres av ikke-autorisert personale, da dette kan krenke forskrifter for laserikkerhet. Det optiske systemet kan bare repareres ved fabrikk.

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## PORTUGUESE

O *HS1250* é certificado nos Estados Unidos em conformidade com os requerimentos do DHHS/CDRH 21 CFR Subcapítulo J para produtos a laser de Classe IIa (Class IIa). O *HS1250* também é certificado como um produto a laser de Classe I (Class I) de acordo com os requerimentos do IEC 825-1:1993.

Os produtos do tipo Classe I (Class I) e Classe IIa (Class IIa) não são considerados perigosos. O *HS1250* contém em seu interior um Visible Laser Diode (VLD) que emite um máximo de 0,652 milliwatts a um comprimento de onda de 670 nanômetros. O scanner foi projetado de maneira a não permitir o acesso humano a níveis nocivos de luz laser durante a manutenção pelo usuário, ou durante as operações de serviço preventivo.

### CUIDADO

Para segurança do usuário, este produto está equipado com um cabo de alimentação de três fios e uma tomada. Use este cabo com uma tomada que tenha ligação à terra para evitar choque elétrico.

### CUIDADO

O uso de quaisquer controles ou ajustes ou procedimentos além dos aqui especificados pode resultar em exposição perigosa à luz laser.

### CUIDADO

Não tente abrir a cavidade ótica nem consertar, de forma alguma, qualquer de seus componentes. A abertura da cavidade ótica, ou o conserto de qualquer uma de suas peças por pessoal não autorizado poderá violar as normas de segurança para sistemas de luz laser. O sistema ótico só poderá ser consertado pelo fabricante.

## SWEDISH

*HS1250* uppfyller de amerikanska kraven DHHS/CDRH 21CFR Subchapter J för Klass 11a (Class 11a) laserprodukter. *HS1250* har också registrerats som en Klass 1 (Class 1) laserprodukt som uppfyller kraven IEC 825-1:1993.

Produkter i Klass 1 (Class 1) och Klass 11a (Class 11a) anses ej farliga. *HS1250* innehåller ett internt Visible Laser Diode (VLD) rör med en maximal emission på 0,652 mW vid 670 nm våglängd. Scannern har byggts så att laserljus av skadlig nivå inte kan nå människor vid normal användning, brunksunderhåll eller föreskriven service.

### VARNING

Denna produkt innehåller en tretråds strömledning samt stickpropp för att skydda användaren. Koppla denna ledning till ett korrekt jordat elektriskt uttag för att undvika elstöt.

### VARNING

Om apparaten används på annat sätt än som i denna bruksanvisning specificerats, kan användaren utsättas för synlig laserstrålning, som överskrider gränsen för Laserklass 1.

### VARNING

Försök inte öppna eller reparera komponenter i den optiska kammaren. Om icke auktoriserad personal öppnar eller reparerar delar i den optiska kammaren, kan detta vara ett brott mot säkerhetstöreskrifterna för laserutrustning. Det optiska systemet får endast repareras i fabriken.

## SPANISH

El *HS1250* ha sido certificado en los EE.UU. conforme a los requisitos de DHHS/CDRH 21CFR Subchapter J para productos láser Clase IIa (Class IIa). El *HS1250* también ha sido certificado como un producto láser Clase I (Class I) según los requisitos de IEC 825-1:1993.

Los productos Clase I (Class I) y Clase IIa (Class IIa) no se consideran peligrosos. El *HS1250* contiene en su interior un diodo de luz láser visible (VLD) que emite un máximo de 0,652 milivatios con longitud de onda de 670 nanómetros. El escáner fue diseñado para impedir acceso humano a niveles nocivos de luz láser durante la operación normal, el mantenimiento por los usuarios, o durante las operaciones de servicio preventivo.

### PRECAUCIÓN

Este producto ha sido equipado con un cable de alimentación de tres hilos y un enchufe de tres contactos para la seguridad del usuario. Use este cable de alimentación en conjunto con un tomacorriente debidamente conectado a tierra para evitar choques eléctricos.

### PRECAUCIÓN

El uso de controles, o ajustes, o la ejecución de procedimientos distintos a los especificados aquí pueden provocar la exposición nociva a la luz del láser.

### PRECAUCIÓN

No trate de abrir o prestar servicio en forma alguna a ningún componente en la cavidad óptica. La apertura o servicio de cualquier parte de la cavidad óptica por personal no autorizado puede violar regulaciones de seguridad láser. El sistema óptico solo puede ser reparado en la fábrica.

## JAPANESE

*HS1250* point of sale scanner は、米国のDHHS/CDRH 21CFR Subchapter Jに記載されたクラスIIa (class IIa) のレーザー製品に関する要求基準に適合する事が認定されています。*HS1250* はまた、IEC 825-1:1993のクラスI (class I) に関する要求基準にも適合する事が認定されています。

クラスI (class I)、クラスIIa (class IIa) のレーザー製品は、危険物とはみなされていません。*HS1250* は、670ナノメートルの波長のレーザー光を、最大0.652ミリワット放出するビジブルレーザーダイオード(VLD)を内蔵しています。スキャナは、通常の操作、ユーザによるメンテナンス、所定のサービス作業の際に、人体に有害なレベルのレーザー光に作業者がさらされることのないよう設計されています。

### 注意：

本製品には、ユーザの安全を図るため、3線電源コードとプラグが装備されています。感電防止のため、この電源コードを適切にアースされたコンセントに差し込んでください。

### 注意：

ここに明記された以外の方法により、装置の制御、調整、運用を行なった場合、人体に有害なレーザー光に作業者がさらされる危険性があります。

### 注意：

光空洞共振器内の装置を開けたり、あるいは修理したりしないでください。許可を受けない者が光空洞共振器の装置を開けたり、修理したりすることは、レーザー取り扱い安全法に触れます。光学システムは、工場でのみ修理されるものです。

## HEBREW

סורק יב"מ מודל HS1250 אושר בארה"ב כממלא אחר הדרישות של HS1250 DHHS/CDRH 21 CFR Subchapter J למוצרי ליזר מסוג IIa (Class IIa). מודל מאושר גם כן כמוצר ליזר מסוג I (Class I) לצורך עמידה בדרישות של IEC 825-1:1993 מוצרים מסוג I (Class I) ומסוג IIa (Class IIa) אינם נחשבים למסוכנים. יב"מ HS1250 כולל בתוכו שפופרת דיודת ליזר נראית (VLD) המפיצה מקסימום של 0.652 מיליוואט באורך גל של 670 ננומטר. הסורק מעוצב כך שלא מתאפשרת גישה של בני אדם לרמות מזיקות של קרן אור ליזר במהלך ההפעלה, האחזקה על ידי המשתמש או פעולות אחזקה מתוכננות.

### זהירות:

מוצר זה מצויד בכבל חשמל תלת-גירי עם תקע לבטיחותו של המשתמש. חבר כבל זה לשקע חשמלי מוארק כהלכה על מנת למנוע מכת חשמל.

### זהירות:

השמוש בבקרים, או כיוון המכשיר, או ביצעו של סדר פעולות כלשהו מעבר למצוין בזה עלולים לגרום לחשיפה מזיקה של המשתמש לקרני ליזר.

### זהירות:

אין לנסות לפתוח או לטפל בחלק כלשהו בחלל האופטיקה. הפתיחה או הטיפול בחלק כלשהו בחלל האופטיקה, על ידי מי שלא הוסמך לכך, עלולים להפר את תקנות הבטיחות לטיפול במכשיר ליזר. מערכת אופטית זו מיועדת לטיפולו של היצרן בלבד.



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# STANDARD WARRANTY

PSC warrants to Customer that PSC's products will be free from defects in materials and workmanship for a period of one year from product shipment.

In order to obtain service under this Warranty, Customer must notify PSC of the claimed defect before the expiration of the Warranty period and obtain from PSC a return authorization number for return of the product to designated PSC service center. If PSC determines Customer's claim is valid, PSC will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated PSC service center, with shipping charges prepaid. PSC shall pay for the return of the product to Customer if the shipment is to a location within the country in which the PSC service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations.

Warranty is subject to the limitations and exclusions set forth below. Warranty set forth above is in lieu of any other warranties, expressed or implied, including merchantability and fitness.

## EXCLUSIONS

Warranty coverage shall not apply to any claimed defect, failure or damage which PSC determines was caused by: improper use of product; failure to provide product maintenance, including but not limited to cleaning of the upper window in accordance with product manual; installation or service of product by other than PSC representatives; use of product with any other instrument, equipment or apparatus; modification or alteration of product. External cables and replacement of upper window/cartridge due to scratching, stains or other degradation will not be covered under the Warranty. External power supplies returned for service must be accompanied by the original product for performance of service.

## LIMITATIONS OF LIABILITY

PSC repair or replacement of defective product as set forth above is the customer's sole and exclusive remedy on account of claims of breach of warranty or product defect. Under no circumstances will PSC be liable to customer or any third party for any lost profits, or any incidental, consequential indirect, special or contingent damages regardless of whether PSC had advance notice of the possibility of such damages.

## ASSIGNMENT

Customer may not assign or otherwise transfer its rights or obligations under Warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon PSC.

## RISK OF LOSS

Customer shall bear risk of loss or damage for product in transit to PSC. PSC shall assume risk of loss or damage for product in PSC's possession or product being returned to Customer by PSC, except such loss or damage as may be caused by the negligence of Customer, its agents or employees. In the absence of specific written instructions for the return of product to Customer, PSC will select the carrier, but PSC shall not thereby assume any liability in connection with the return shipment.

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