

PSC[®]



VS1000

VS1200



User's Guide

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Disclaimer

Reasonable measures have been taken to ensure that the information included 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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VS1000 "Presentation"



**VS1000
"Sweep"**



VS1200 "Sweep"



**VS1000
"Presentation"**

Product Overview

VS1000 and VS1200 scanners are compact, vertically-oriented bar code readers. Both models have a similar high performance design, while each is optimized to fit the needs of significantly different applications. All VS1000 and VS1200 scanners use advanced hardware and software to achieve the highest levels of scanning performance in the smallest possible package, and can be easily mounted for either countertop or wall installation.

Scanner Features

Additional innovative features include:

- power is supplied via a remote AC/DC power supply
- aggressive scan pattern minimizes the need for label orientation
- automatic shutdown occurs when the scanner is left idle; prolongs scanner life and conserves power
- integrated motion sensor that “knows” when you are ready to use it
- both the VS1000 and the VS1200 have user programmable features that include the same general user features, while each has an extended programmable feature set specifically selected to meet the different bar code types used in each setting

Your scanner model was carefully selected to most effectively perform in the environment it is installed. The four basic configurations available for VS products are described below:

The VS1000 Presentation Scanner fits easily into most variety, drug and convenience store checkstands where counter space is limited. Its compact, dense Read Zone is ideal for presenting product bar codes to the scanner’s window. A key feature of the VS1000 scanner is that it can be programmed to autodiscriminate between as many as four different symbologies¹.

The VS1200 Sweep Scanner is a true vertical scanner designed specifically for grocery and hypermarkets to enhance productivity and throughput utilizing slide-through scanning.

1. Reference the VS1000/SP*ACE Programming Guide (part number R44-1140) and the VS1200/HS1250 Programming Guide (p/n R44-1340) for programming details.

The high performance EDGE software provided on the VS1200 allows the ability to read torn, disfigured and over/underprinted bar code labels.

The VS1000 Sweep Scanner is an alternative for environments requiring a scanner that can read multiple industrial codes in a sweep mode setting. This option occupies minimum countertop space while providing a well-defined scan area.

The VS1200 Presentation Scanner offers high performance EDGE software in a presentation optics configuration. It combines the ability to read difficult labels quickly with a dense scan pattern for presenting product bar codes to the scan window.

Operational Overview

The scanner has three operational states: Normal Mode, Sleep Mode and Programming Mode. The description titled, Indicators, tells how to identify these three states.

Normal Mode

Normal Mode is the scanner state when it reads bar codes 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.

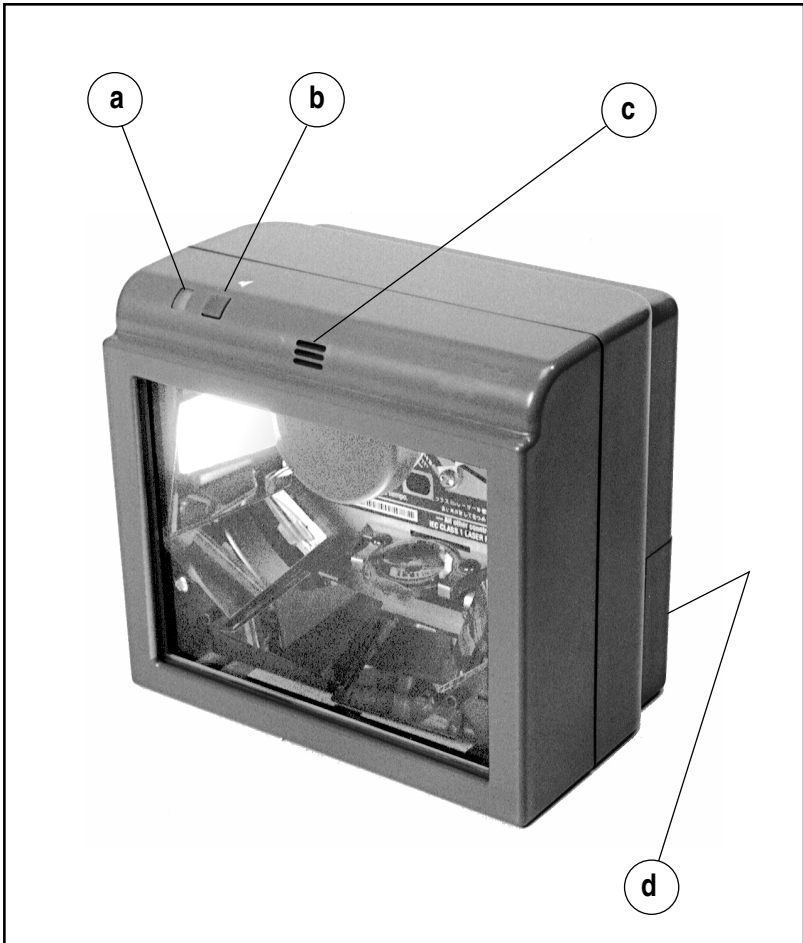
Programming Mode

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

There are two *Programming Kits*, one for the VS1000 (R44-1140) and one for the VS1200 (R44-1340). They are available from PSC or your dealer or distributor.

Controls & Indicators

The controls, indicators and connectors for the VS1000 and VS1200 are identical in appearance, but the function of operator's switch is different. The descriptions on the pages to follow identify the switch operation for each model.



- a. Lamp, Visual Indicator
- b. Operator Switch
- c. Speaker
- d. Connectors: (AC/DC power, undecoded handheld, and Interface)

VS1000 Controls

Operator Switch

The operator switch has three functions: enter or exit Sleep Mode, enter Programming Mode and change speaker volume. The descriptions are listed by the length of time the switch is depressed.

Wake-Up Scanner (0 - 3 seconds)

Momentarily pressing and releasing the switch will cause the scanner to either enter or exit Sleep Mode, assuming that the scanner is configured (programmed) for this feature. If the green lamp is flashing slowly, the scanner is in Sleep Mode. Pressing and releasing the switch quickly (within three seconds) will wake the scanner up and return it to normal operation. This feature is a backup to the motion sensor's automatic wake-up function which is described later under the title Additional Features. If the scanner is operating and you wish to place it in Sleep Mode, press and release the switch once.

Enter Programming Mode (3 - 8 seconds)

Pressing and holding the switch until you hear a tone and then releasing the switch before a second tone sounds (3 - 8 seconds) places the scanner in Programming Mode. The indicator lamp will flash continuously two times per second while you are in Programming Mode.

Programming describes the process of changing scanner features using the special bar code labels contained in the *Programming Kit* (R44-1140). When the scanner is placed in Programming Mode, the scanner will not read any standard bar code 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.

Volume Selection (longer than 8 seconds)

Enter Volume Selection by pressing and holding the switch longer than eight seconds until a second tone sounds. The second, alternate tone indicates that the scanner has entered Volume Selection. The scanner will cycle through the three volume selections sounding each one three times. Press and release the switch immediately after the desired volume has sounded to select that volume.

VS1200 Controls

Operator Switch

The operator switch has two functions: enter or exit Sleep Mode, and change speaker volume.

Wakeup Scanner

If the green lamp is flashing slowly, the scanner is in Sleep Mode. Pressing and releasing the switch will wake the scanner up and return it to normal operation. This feature is a backup to the motion sensor's automatic wake-up function which is described later under the title Additional Features.

Volume Selection

While the scanner is in Normal Mode, the green lamp is on dim. You can easily change the volume on the VS1200 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.

Enter Programming Mode

You cannot enter or exit Programming Mode using the switch on the VS1200. You must use the special Switch label found in the *VS1200 Programming Kit* (R44-1340) to enter or exit Programming Mode.

Pressing and holding the switch until you hear a tone and then releasing the switch before a second tone sounds places the scanner in Programming Mode. The indicator lamp will flash continuously two times per second until you exit Programming Mode.

Programming describes the process of changing scanner features using the special bar code labels contained in the *Programming Kit* (R44-1340). When the scanner is placed in Programming Mode, the scanner will not read any standard bar code 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.

Indicators

Indicator lamp

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 bar code 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 shut-down 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 *Programming Kit* (R44-1340) for the VS1200 and the *Programming Kit* (R44-1140) for the VS1000.
- Flashing twice a second indicates that the scanner is in Programming Mode. The scanner will not read regular bar code 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 bar code 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 bar code has been read but the scanner is not programmed to transmit that symbology to the host.
- In Normal Mode when the VS1200 cannot successfully decode a bar code label.
- When the VS1000 operator switch is held down to enter Volume Selection, the second tone you hear is the alternate tone indicating that it is time to release the switch.
- 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.

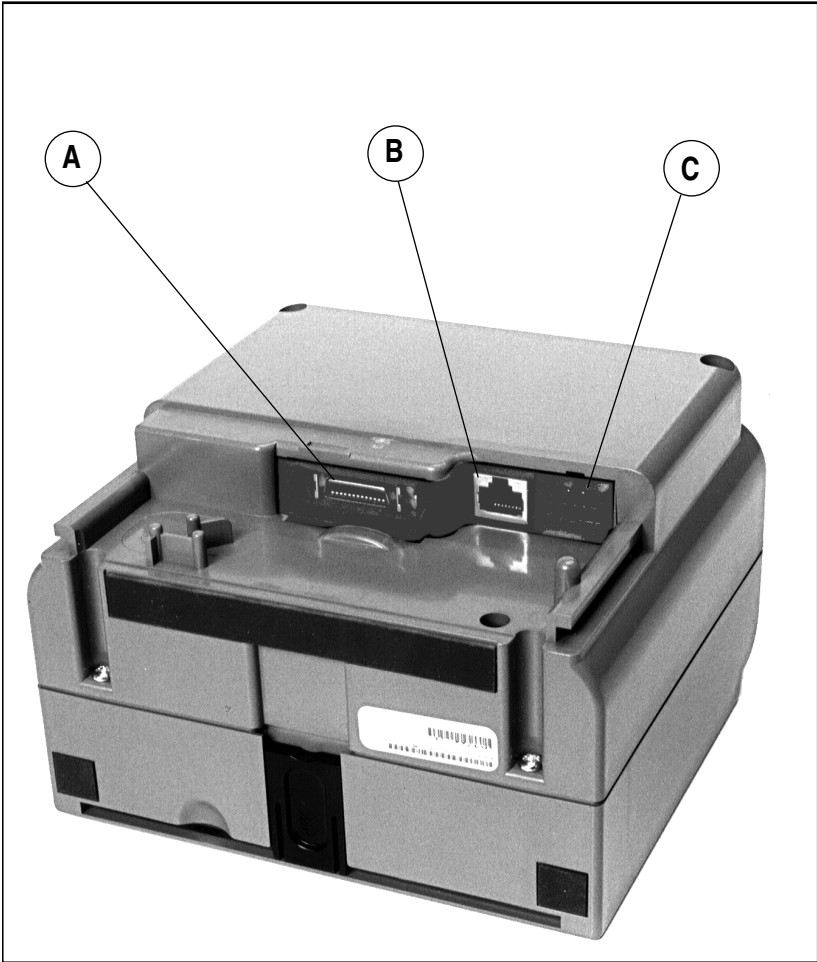
Error Tone

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

Number of Tones	Failed Components
1	Digital Board
2	VLD (Visible Laser Diode) Module
3	Motor
4	Operator's Panel
7	VLD (End of life)

Connectors

The three cable connectors are located under the mounting bracket. The picture below shows the back of the scanner with the mounting bracket removed and identifies each connector.



- A. Interface connector
- B. Undecoded Handheld Scanner Connector (VS1200 only)
- C. DC Power Supply Connector

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 VS1200 model has an additional 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.

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 operator's switch to wake up the scanner.

Unpacking

Before you open the VS1000/VS1200 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)
- VS1000 or VS1200 scanner
- Standard mounting hardware kit
- 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.

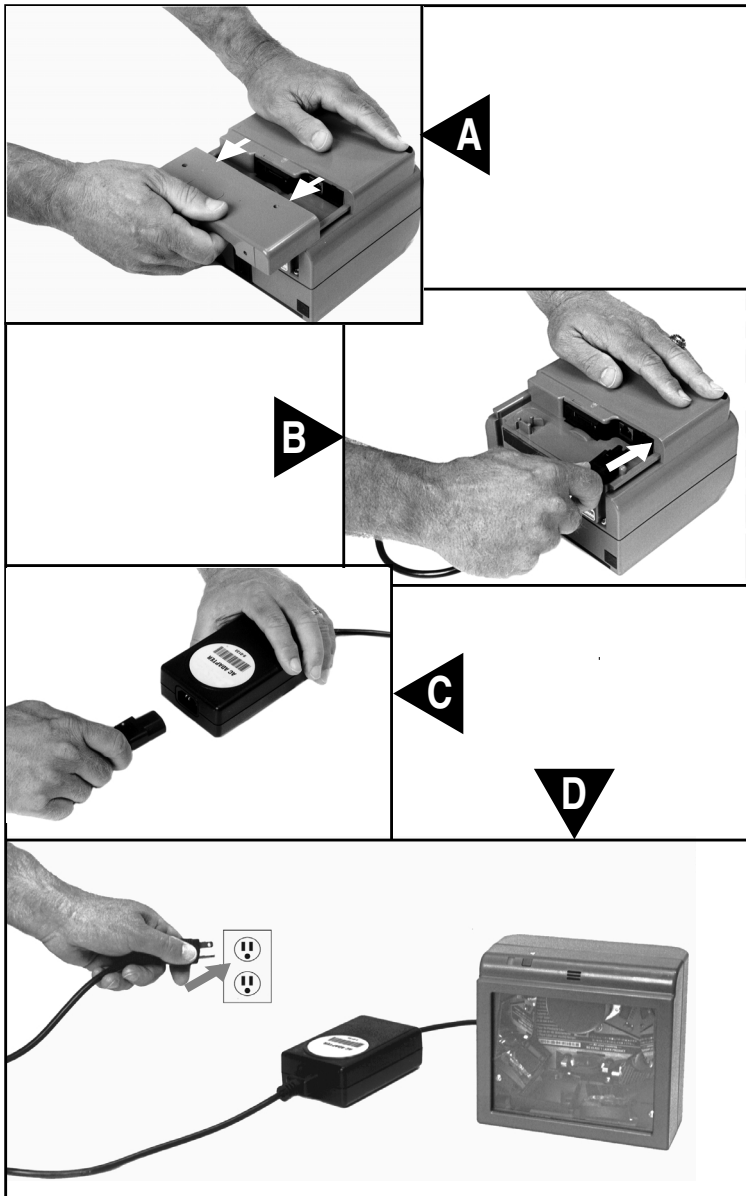
Verifying Scanner Operation

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. Lay the scanner face down on the counter and remove the mount by sliding it toward the bottom of the scanner.
2. Plug the DC power connector from the AC/DC power supply into the scanner.
3. Connect the IEC end of the AC power cord into the AC/DC power supply.
4. 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*.



- A. Remove the Mount
- B. Connect AC/DC Power Supply
- C. Connect IEC Power Cord to the AC/DC Power Supply
- D. Plug Power Cord into AC Outlet

Installation

Countertop or Wall

The VS1000 and VS1200 have rubber feet that allow you to set the scanner directly on the countertop without a mounting bracket. However, we recommend that you use the standard mounting bracket to protect your scanner from inadvertently being knocked off the counter.

Choose the installation location and determine if you are going to route the cables out the back of the mount or through a 1-1/4" (3.2 cm) hole in the countertop.

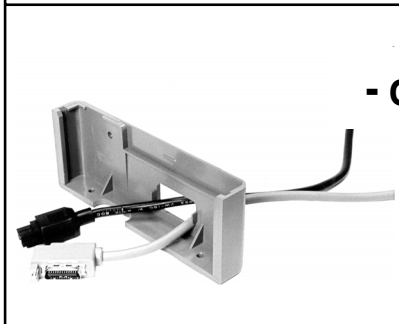
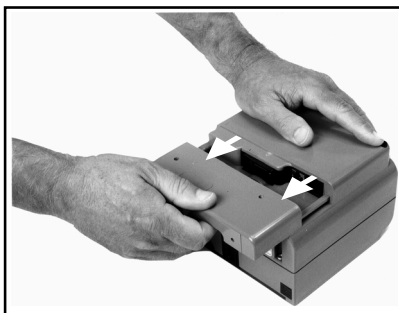
1. Remove the mount from the back of the scanner.
2. Secure the mount to the counter or wall with two 3/4" (1.9 cm) screws included with your mounting kit.
3. Route the power and interface cables through the back of the mounting bracket or the hole in the counter.
4. Connect the interface cable to the scanner, secure it with the mounting screw(s).
5. Attach the DC power connector from the AC/DC power supply to the scanner's power connector.
6. Route the cables through the cable strain relief as shown.
7. Connect the IEC power cord to the AC/DC power supply.



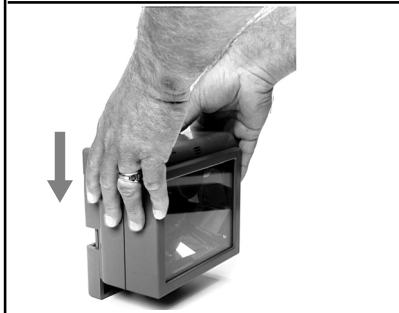
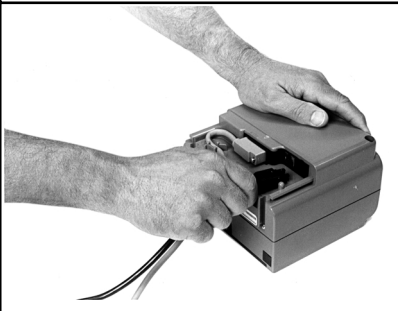
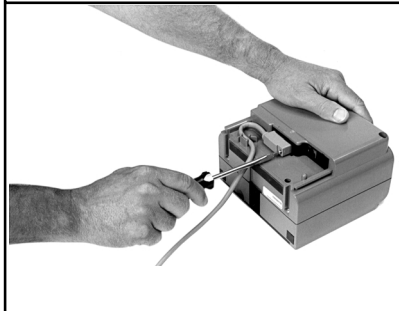
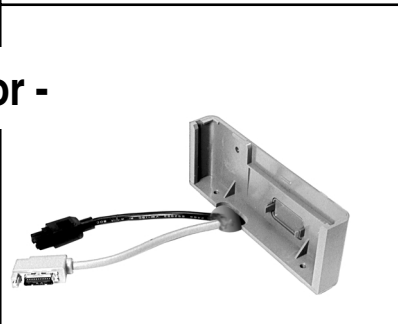
NOTE

It is recommended that the IEC power cord of the power supply be connected to the same AC outlet used by the POS terminal.

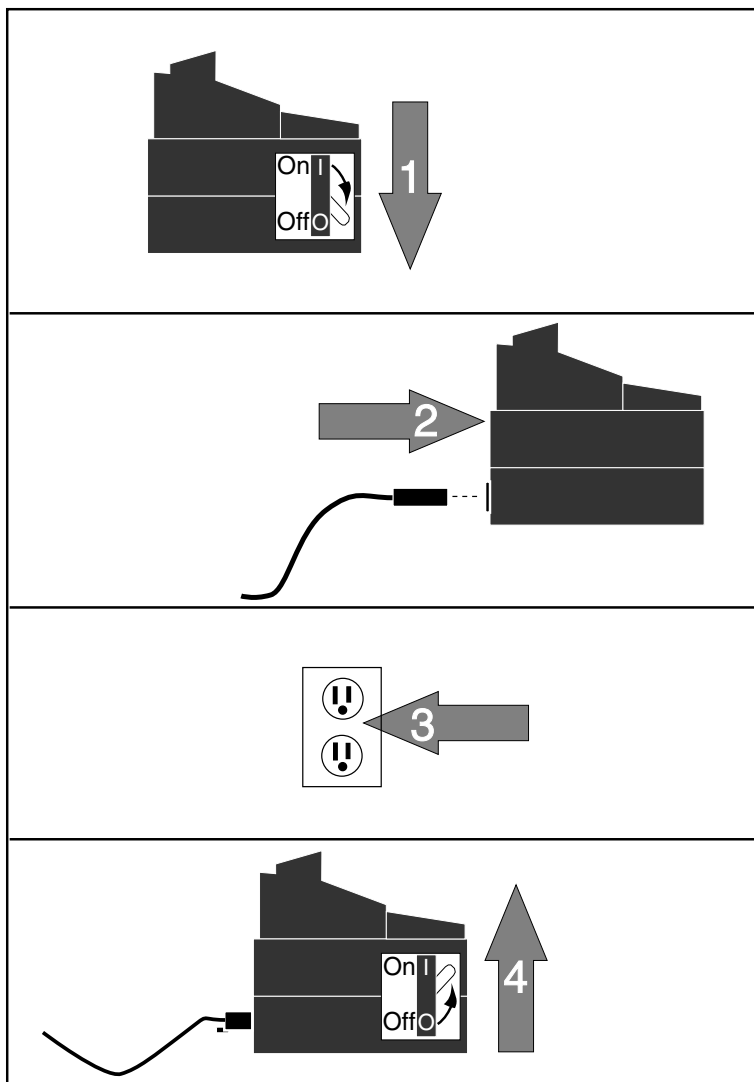
8. You are now ready to power up the scanner and POS system. Since the power-up procedures are different for various POS systems, contact your technical support personnel to ensure that you follow the correct order.



- or -



Connecting The Scanner



1. Switch the terminal 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
5. Verify the system's operation procedures

You have completed the installation procedures.

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).

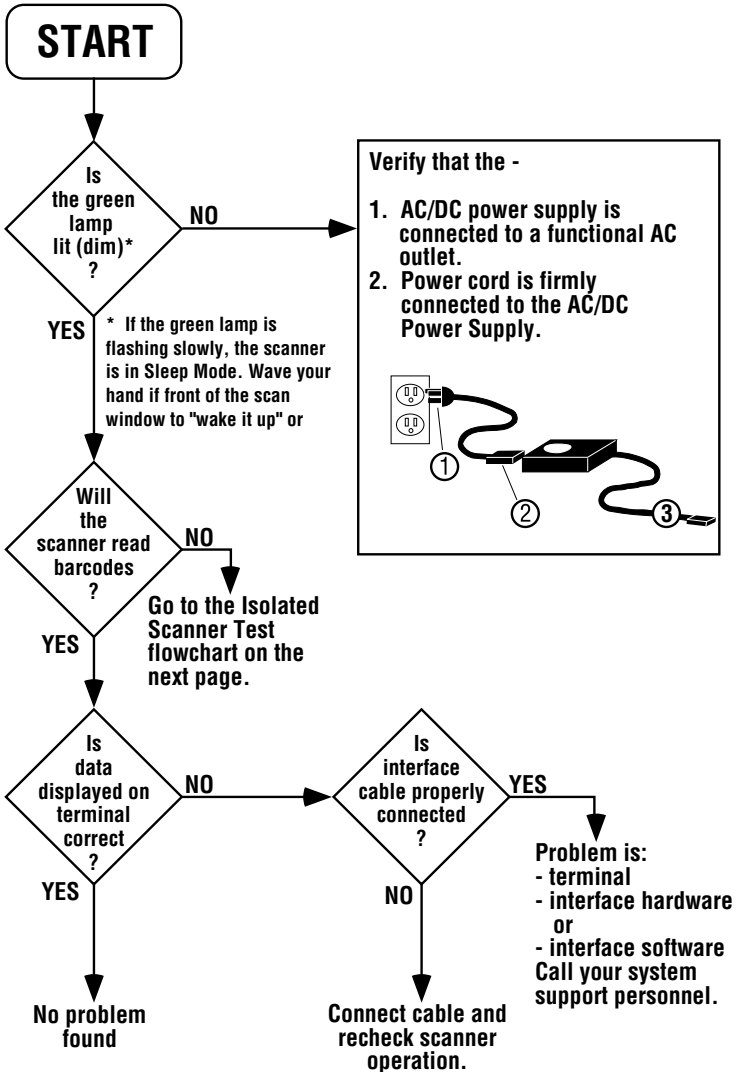
1. Power down your terminal.
2. Connect the scanner interface cable to the POS terminal.
3. Connect the IEC power cord to the AC/DC Power Supply and then to an AC outlet. Power up the terminal.
4. Verify that data is being properly communicated between the scanner and your POS terminal by scanning a few items.

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

If you want to modify the scanner's interface parameters or change the user interface (e.g. volume), order the *VS1000 Programming Kit* (PSC Part Number R44-1140) or the *VS1200 Programming Kit* (PSC Part Number R44-1340).

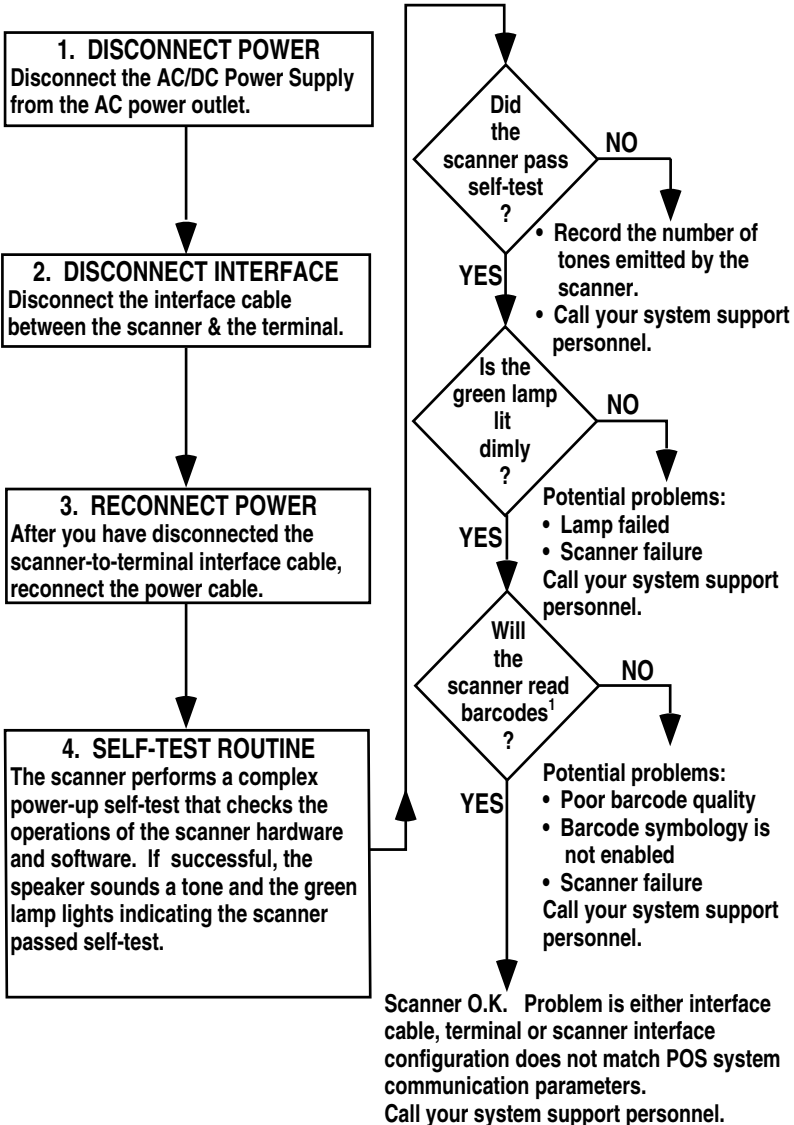
Troubleshooting

Problem Isolation



Troubleshooting

Isolated Scanner test



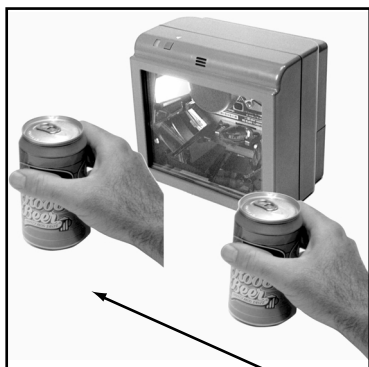
¹ When the interface cable has been disconnected and reconnected, the scanner may read one or two labels before it must be reset.

Sweep Scanning

Your VS1000 or VS1200 scanner is configured as a sweep scanner if it does not contain a mask in the scan window (see *Presentation Scanning* on the following page). The vertically mounted sweep scanner is designed to fit easily into checkstands with limited space and can be mounted in different positions to accommodate most checkstand designs. This scanner's dense scan pattern ensures that a bar code is easily read when swept through the area in front of the scanner's window. This area, the Read Zone, extends approximately 8" (20.3 cm) in front of the window and 6" (15.2 cm) high expanding as you move away from the scanner's window.



When the bar code 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's window and sweeping it laterally through the Read Zone. The center of the Read Zone is approximately 3" (7.6 cm) in front of the scanner window.

Presentation Scanning

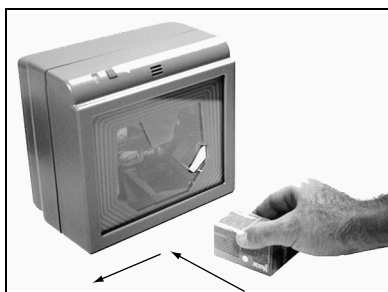


Presentation models are distinguished by the mask that is present in the scan window of the scanner. Presentation scanning matches the needs of our customers in variety, drug and convenience stores who traditionally present a label to the scanner. This scanning environment is significantly different from high throughput scanning environments such as supermarkets and hypermarkets where the product's bar code label

is swept past the scanner in a single sliding motion. The presentation scan pattern is denser and more compact than that of sweep scanners. This minimizes accidental reads of bar codes near the Read Zone while enhancing the scanner's ability to read small truncated labels. The Read Zone extends about 5" (12.7 cm) in front of the window and is about 4" (10.2 cm) high.

Presentation scanning is most common in stores where the checkstand design does not accommodate product flow from an incoming source such as a conveyor belt to a centralized bagging area. Typically, there is limited countertop surface so the cashier scans and bags each item before scanning the next article.

Optimum scanner performance is obtained by facing the label toward the center of the scanner's window and presenting it to the Read Zone. The center of the Read Zone is approximately 2.5" (6.4 cm) in front of the scanner window.



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 VS1000 and the VS1200 scanners support a variety of interface configurations and bar code 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 bar code labels that affect the scanner's operation.

See *Other Programmable Features* (following this section) to view additional features that may be changed using the Programming Guide labels.

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.



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.



Other Programmable Features

The table below shows the programmable features for the VS1000 and the VS1200.

PROGRAMMABLE FEATURES	VS1000	VS1200
Symbology selection:		
- UPC-A, UPC-E, EAN-8, EAN-13	X	X
- UPC-D	X	
- EAN/JAN. 2 label pairs	X	X
- UPC with two and five digit add-ons	X	X ²
- Code 39	X	X ^{1,4}
- Codabar	X	X ^{1,3,4}
- Interleaved 2 of 5	X	X ^{1,4}
- Code 128	X	X ^{1,4}
- MSI/Plessey	X	
Symbology specific parameters		
- Interleaved 2 of 5 label lengths	X	X
- Checksum, prefix & start/stop bit control	X	X
- Price weight check digit control	X	X
- Double Read Timeout	X	X
- UPC expansion	X	X
RS-232 Communication parameters		
- Baud Rate	X	X
- Parity	X	X
- Handshaking	X	X
- Stop Bits	X	X
General Features		
- Motor timeout	X	X
- Laser timeout	X	X
- Volume selection	X	X

1. Enabling any of these "Industrial codes" disables the Edge™ (label assembly software).
2. Only VS1200 Class 39 & 40 scanners support this option.
3. VS1200 Class 39 & 40 scanners do not support this option.
4. VS1200 Class 39 & 40 scanners support enabling up to three industrial codes at once.

Routine Maintenance

The VS1000 and VS1200 maintenance procedures consist of window cleaning and window replacement.

Cleaning



The scanner has both an inner and outer window. Although window surface wear is minimal on a vertical window, and the window usually does not need to be changed, replacement is easy.



The scan window may require periodic cleaning to ensure highest possible performance.

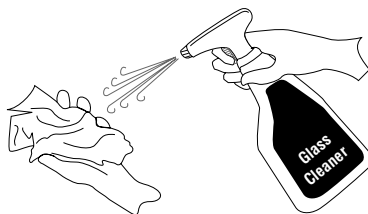


NOTE

The scanner window is high quality, scratch resistant, glass. Use a soft lens cloth and nonabrasive cleaner to avoid scratching.

1. Spray cleaner onto lint free, nonabrasive cleaning cloth.

2. Gently wipe the scanner window.

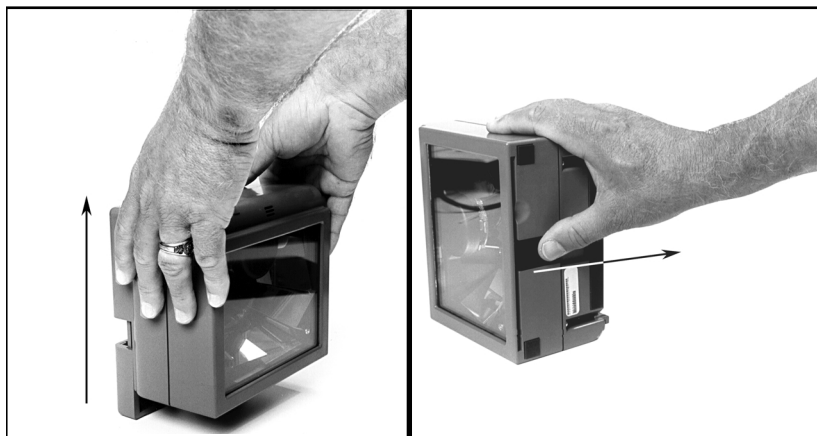


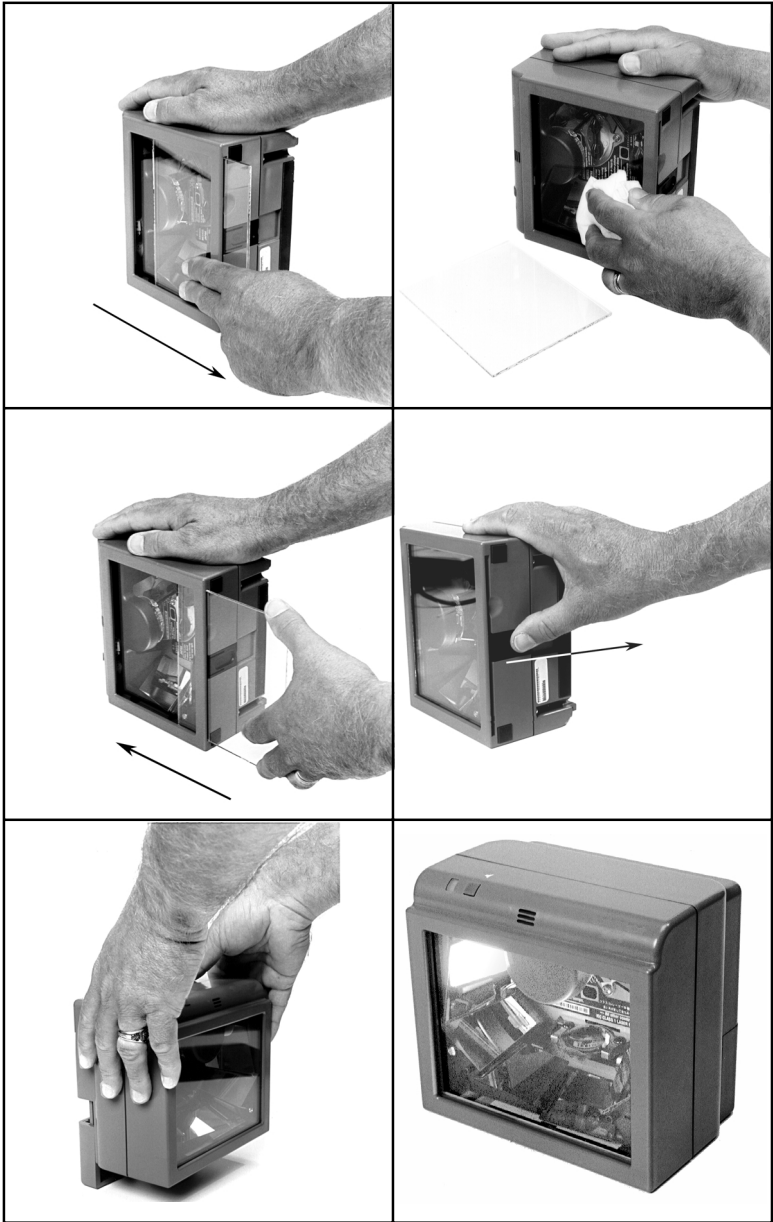
Window Replacement

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

1. Lift the scanner out of its mount. The interface and power cables can remain connected during this procedure.
2. Set the scanner on the counter as shown, locate the thumb latch that holds the outer window in place and slide the latch toward the back of the scanner.
3. Carefully remove the old glass and dispose of it properly.
4. Clean the inner window glass and the inside of the new outer glass.
5. Install the new outer window glass.
6. Slide the thumb latch to hold the window in place.
7. Replace the scanner into its mounting bracket.
8. Clean the front of the outer window.

You have completed the window replacement procedure.





Appendix A Specifications

Physical Specifications



Scanner

Depth = 4.3" (10.9 cm)

Height = 6.0" (15.2 cm)

Width = 6.5" (16.5 cm)

Weight = 3.6 lb. (1.6 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)

Environmental Specifications

Operation

Temperature	Minimum 10°C (50°F)	Maximum 40°C (104°F)
Humidity	5 - 90% (non-condensing)	
Ambient Light	200 footcandles (2150 Lux) maximum	

Storage

Temperature	Minimum -40°C (-40°F)	Maximum 70°C (158°F)
Humidity	5 - 90% (non-condensing)	

Electrical Specifications



USE ONLY POWER SUPPLY (p/n 8-0133) or other PSC approved power supply.

NOTE

The AC/DC Power Supply provides three dc voltages to the VS1000/VS1200; +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 VS1000/VS1200 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

VS1000/VS1200 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

Appendix B

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.

- This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
- Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Agency Compliance

The VS1000/VS1200 scanner meets or exceeds the requirements for its device type as set forth by the following agencies and regulations:

Electrical

- Underwriters 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
- NEMKO NEK-EN 60 950 (Norway)
- SEMKO SS-436 14 50-1988 (Sweden)
- DEMKO Sec. 137 (EN 60 950, Modified) (Denmark)
- FIMKO 950-87 (Finland)

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

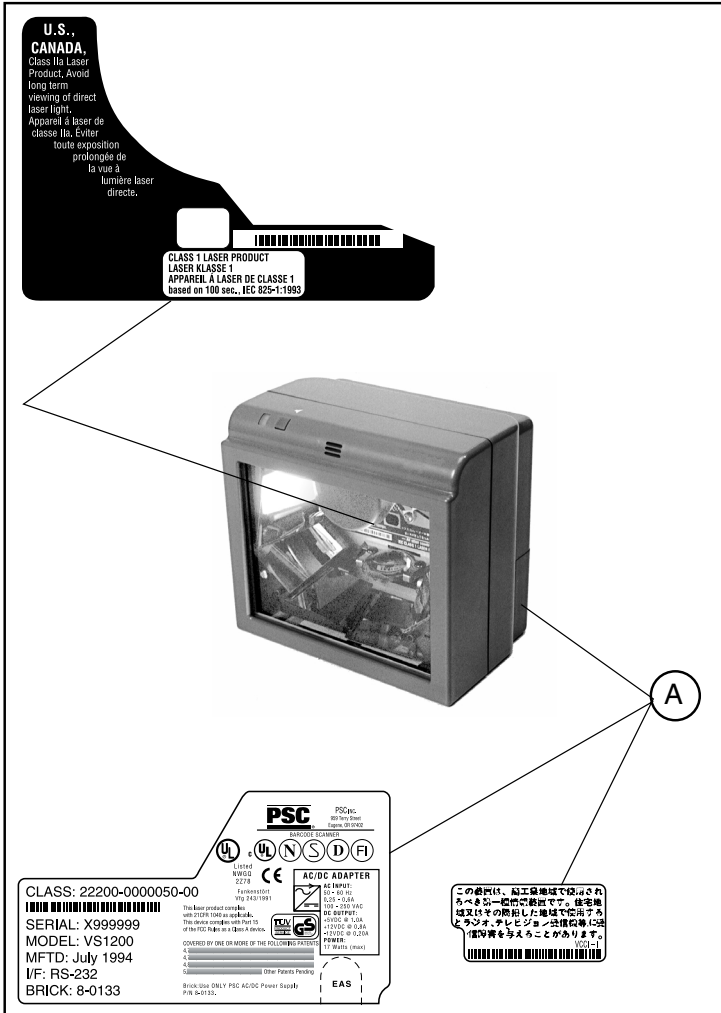
- United States Laser Safety, CADRE Class Via (Reference 2.5)
- Laser Safety, Class I, according to IEC 825:1993 and EN60825:1994
- Standards Association of Australia, Laser Safety Standard AS 2211-1991
- Approval and Test Specification, General Requirement for Electrical Materials and Equipment, AS 3100-1982

Scanner Labeling



NOTE

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.



A. These labels are affixed to the scanner and located under the mounting bracket

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 scan windows 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 scan windows due to scratching, stains or other degradation will not be covered under the Warranty. Products returned for service must be accompanied by the original external power supplies 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.

Laser Safety Information

The VS1000/VS1200 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]:

3. User Maintenance. No user maintenance of the system, other than window replacement and cleaning is required.
4. 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 560 μ 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 μ W per CDRH Class IIa specification.
5. Laser Light Viewing. The scanners window is the only aperture through which laser light may be observed in this product.
6. No adjustments or alteration of the scanners housing are to be attempted by the user.
7. 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.

English

The VS1000/VS1200 scanner is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J for Class IIa laser products. The VS1000/VS1200 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 VS1000/VS1200 contains internally a Visible Laser Diode (VLD) that emits a maximum of 0.560 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

VS1000/VS1200 opfylder de amerikanske krav stillet i "DHHS/CDRH 21 CFR Subchapter J" for klasse IIa (class IIa) laserprodukter. VS1000/VS1200 er også godkendt som et klasse I (class I) laserprodukt, der opfylder kravene i IEC 825:1993.

Klasse I (class I) og klasse IIa (class IIa) produkter anses for at være sikre. VS1000/VS1200 indeholder en Visible Laser Diode (VLD), der udsender maksimalt 0.560 mW ved en bølglængde 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 elektrisk 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 må udelukkende repareres af PSC autoriserede reparationscentre.

Finnish

VS1000/VS1200 on hyväksytty Yhdysvalloissa vastaamaan DHHS/CDRH 21CFR Subchapter J luokka Ila (Class Ila) lasertuotteille asetettuja vaatimuksia. VS1000/VS1200 on myös hyväksytty vastaamaan IEC 825:1993 vaatimuksia I luokan (Class I) lasertuotteille.

Luokka I (Class I) ja luokka Ila (Class Ila) tuotteiden ei katsota olevan vaarallisia. VS1000/VS1200 on sisäinen Visible Laser Diode (VLD) joka säteilee enintään 0,560 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 virtajohtin maadoitettuun pistorasiaan sähköiskun välttämiseksi.

VAROITUS

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

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 tehtaalta.

French

Le VS1000/VS1200 est certifié conforme aux conditions requises par la norme DHHS/CDRH 21CFR, sous-chapitre J, concernant les appareils à laser de classe Ila aux Etats-Unis. Le VS1000/VS1200 est aussi certifié en tant qu'appareil à laser de classe I conforme aux conditions requises par la norme IEC 825:1993.

Les produits de classe I et classe II ne sont pas considérés comme dangereux. Le VS1000/VS1200 contient une diode laser visible (VLD) qui émet une puissance maximum de 0,560 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.

German

Der VS1000/VS1200 entspricht den in den Vereinigten Staaten geltenden Vorschriften des DHHS/CDRH 21CFR Subchapter J für Laserprodukte der Klasse IIa (Class IIa). Der VS1000/VS1200 ist ferner als ein Laserprodukt der Klasse I (Class I) nach den Vorschriften der IEC 825:1993 zugelassen.

Produkte der Klasse I (Class I) und der Klasse IIa (Class IIa) sind als ungefährlich eingestuft. Der VS1000/VS1200 enthält eine VLD Diode, die maximal 0,560 Milliwatt 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 VS1000/VS1200 is in de V.S. goedgekeurd en voldoet aan de eisen van DHHS/CDRH 21CFR Subchapter J voor Klasse-IIa (Class IIa) laserprodukten. De VS1000/VS1200 is ook goedgekeurd als een klasse-1 (Class 1) laserprodukt volgens de eisen van IEC 825:1993.

Produkten van klasse-1 (Class 1) en klasse-11a (Class 11a) worden niet geacht gevaarlijk te zijn. De VS1000/VS1200 bevat een inwendige Visible Laser Diode (VLD) buis, die maximaal 0,560 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 afgestief 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 opticasysteem mag alleen in de fabriek worden gerepareerd.

Italian

VS1000/VS1200 è stato certificato negli Stati Uniti in conformità alle norme DHHS/CDRH 21 CFR Subchapter J per i prodotti laser della categoria IIa. VS1000/VS1200 è anche certificato come prodotto laser di categoria I, secondo le norme IEC 825:1993.

I prodotti delle categorie I e IIa non sono considerati pericolosi. VS1000/VS1200 contiene all'interno un diodo a laser visibile (VLD), che emette un massimo di 0,560 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.

Hebrew

סורק יב"מ מודל VS1000/VS1200 אושר בארה"ב כממלא אחר הדרישות של VS1000/VS1200 DHHS/CDRH 21 CFR Subchapter J למוצרי ליזר מסוג IIa (Class IIa). מודל VS1000/VS1200 מאושר גם כן כמוצר ליזר מסוג I (Class I) לצורך עמידה בדרישות של IEC825.1993. מוצרים מסוג I (Class I) ומסוג IIa (Class IIa) אינם נחשבים למסוכנים. יב"מ VS1000/VS1200 כולל בתוכו שפופרת דיודת ליזר נראית (VLD) המפיעה מקסימום של 0.560 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 ביצועו 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.

Norwegian

VS1000/VS1200 er godkjent i USA i samsvar med retningslinjer for DHHS/CDRH 21CFR Subchapter J for Klasse IIa (Class IIa) laserprodukter. VS1000/VS1200 er også godkjent som et klasse I (Class I) laserprodukt, i samsvar med retningslinjer fra IEC 825:1993

Klasse I (Class I) og Klasse IIa (Class IIa) produkter regnes ikke for å være helsefarlige. VS1000/VS1200 har et innvendig Visible Laser Diode (VLD) rø som avgir maksimum 0.560 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 forbindelse 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 forsikringer for laserikkerhet. Det optiske systemet kan bare repareres ved fabrikk.

Portuguese

O VS1000/VS1200 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 VS1000/VS1200 também é certificado como um produto a laser de Classe I (Class I) de acordo com os requerimentos do IEC 825:1993.

Os produtos do tipo Classe I (Class I) e Classe IIa (Class IIa) não são considerados perigosos. O VS1000/VS1200 contém em seu interior um Visible Laser Diode (VLD) que emite um máximo de 0,560 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

VS1000/VS1200 uppfyller de amerikanska kraven DHHS/CDRH 21CFR Subchapter J för Klass 11a (Class 11a) laserprodukter. VS1000/VS1200 har också registrerats som en Klass 1 (Class 1) laserprodukt som uppfyller kraven IEC 825:1993.

Produkter i Klass 1 (Class 1) och Klass 11a (Class 11a) anses ej farliga. VS1000/VS1200 innehåller ett internt Visible Laser Diode (VLD) rör med en maximal emission på 0,560 mW vid 670 nm våglängd. Scanern har byggts så att laserljus av skadlig nivå inte kan nå människor vid normal användning, brunskunderhåll 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 VS1000/VS1200 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 VS1000/VS1200 también ha sido certificado como un producto láser Clase I (Class I) según los requisitos de IEC 825:1993.

Los productos Clase I (Class I) y Clase IIa (Class IIa) no se consideran peligrosos. El VS1000/VS1200 contiene en su interior un diodo de luz láser visible (VLD) que emite un máximo de 0,560 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

VS1000/VS1200 point of sale scanner は、米国のDHHS/CDRH 21CFR Subchapter J に記されたクラス 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。VS1000/VS1200はまた、IEC825:1993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。VS1000/VS1200は、670ナノメートルの波長のレーザー光を、最大0.560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、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。



DECLARATION OF CONFORMITY

PSC hereby declares that the Equipment specified below has been tested and found compliant to the following Directives and Standards:

Directives: EMC 89/336/EEC
Low Voltage 73/23/EEC

Standards: EN55022-B EN60825
EN50082-1 EN60950

Equipment Type: Bar Code Scanning Equipment

Product: VS1000/VS1200

A handwritten signature in black ink, appearing to read 'Charles W. Vanlue'.

Charles W. Vanlue
Director, Corporate Quality
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U.S.A.

A handwritten signature in black ink, appearing to read 'Nigel Davis'.

Nigel Davis
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