PSC®

QS Pen

QuickScan Pen

User's Guide

Patents

The following U.S. Patents are either held by or licensed to PSC Inc.

US Patent no. (other patents pending) - 5,371,347 5,469,291 5,550,367 5,596,442 5,596,446 5,656,805 4,387,297 4,409,470 4,593,186 4,652,750 4,673,805 4,736,095 4,816,660 4,845,350 4,866,257 4,879,456 5,180,904 5,247,161 5,247,162 5,311,000 5,475,206 5,481,098 4,861,972 5,258,604 5,506,394

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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.

Table of Contents

Using the QuickScan® Pen

Scanning Techniques And Bar Code Quality

The QuickScan Pen is a high precision optical laser scanner. It uses a moving laser beam spot that sweeps the bar code symbol about 40 times a second. The light reflected off the bar code and collected by the scanner generates a signal that is then sent to the host terminal.

The QuickScan Pen is a high productivity data collection tool. If it is used and treated properly it will give years of trouble-free scanning. If the bar code quality is poor, or the QuickScan Pen is damaged, the signals will not be clear and poor read rates may occur.

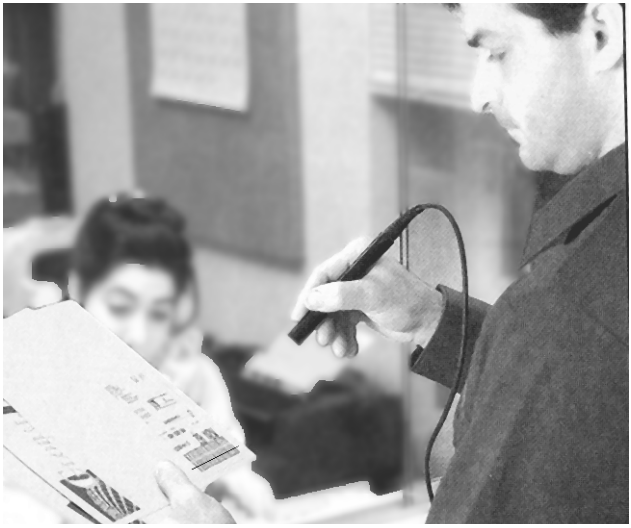
How to Scan

1. Hold the QuickScan Pen scanner at a 15° to 30° angle to the bar code to be scanned. Do not hold the scanner perpendicular to the bar code.

NOTE

Even with perfect bar code targets a laser scanner can be "blinded" by specular reflection. Always hold the QuickScan Pen scanner at an angle to the bar code as shown in Figure 1 in order to avoid specular reflection.

Figure 1 - Proper Scanning Technique.



2. Point the scanner at the top center of the symbol and press the button. Hold the scanner four to six inches away from the bar code.
3. Make sure the beam covers the entire width of the symbol and cuts through all of the bars with some overlap. If the sweep does not cover the entire symbol, move the QuickScan Pen farther away until it overlaps the ends of the bar code.
4. Hold the button down until the scanner beeps indicating that a good read has occurred. If a good read is not immediately obtained, slowly move the beam down the symbol while keeping the button depressed. If the upper part of the symbol is damaged, this will give the scanner another scan path to work with.
5. The optics in the scanner have a "depth of field" similar to the focus field of a camera. If a good read is not obtained, try moving the scanner towards or away from the symbol while scanning. This will enable you to find a better focal point for the beam. The depth of field for a regular UPC bar code is about 3 to 11 inches from the tip of the QuickScan Pen . The "focal point" is about 4 ½ inches from the tip of the QuickScan Pen. (Bar codes may be difficult to read at less than 3 inches).

WARNING

Never look directly into the front of the QuickScan Pen while the beam is on.

Care And Cleaning Instructions

The QuickScan Pen window is made from anti-reflective glass. If it becomes dirty or scratched, degraded performance may result.

Clean the QuickScan Pen Window

Required materials:

- Windex® Glass Cleaner
- lint-free wipes or soft cotton lint-free cloth

CAUTION

Only Windex and lint-free wipes or other soft lint-free material should be used. Other cleaners may cause damage to window or housing.

Do not remove the rubber bezel or window during cleaning.

1. Spray small area of lint-free wipe with Windex glass cleaner.
2. Use wet portion of wipe to remove fingerprints, dust or residue from the front of the window.
3. Use dry portion of Wipe to dry window.

Cleaning The QuickScan Pen Housing

1. Spray paper towel or soft cotton cloth with small amount of Windex glass cleaner.
2. Use wet portion of towel to clean the housing.

CAUTION

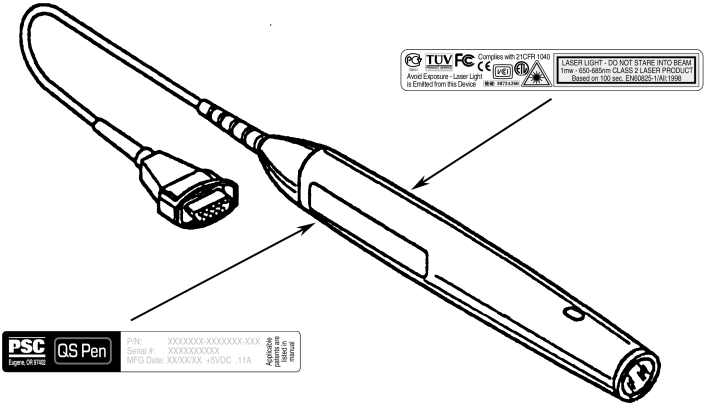
Do not spray Windex directly on the housing. Always spray paper towel to apply cleaner.

Never introduce liquids into the button.

Storage

When not in use, the QuickScan Pen should be unplugged from portable equipment and stored in a clean dry place.

Labeling



Laser Cautions

This scanner is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J for Class II laser products. Class II products are not considered to be hazardous. The scanner contains a Visible Laser Diode (VLD) at a wavelength of 650-670 nanometers and is designed so that there can be no human access to harmful levels of laser light during normal operation, user maintenance, or during prescribed service operations.

CAUTION

If the scan pattern is a single dot when scanning is initiated, discontinue operation and return the unit to the manufacturer.

Do not attempt to open or otherwise service any components 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.

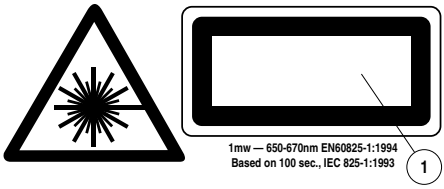
Radio Frequency Interference

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe B respecte toutes les exigences du Reglement sur le material broilleur du Canada.



1 LASER RADIATION — DO NOT STARE INTO BEAM — CLASS 2 LASER PRODUCT
1 LASERSTRAHLUNG — NICHT IN DEN STRAHL BLICKEN — LASER KLASSE 2
1 VARO! LASERSÄTEILYA ÄLÄ TUIJOTA SÄTEESEEN — LUOKAN 2 LASERLAITE
1 RAYONNEMENT LASER — NE PAS REGARDER DANS LE FAISCEAU APPAREIL A' LASER DE CLASSE 2
1 LUZ LASER — ¡NO MIRE HACIA EL RAYO! CATEGORIA 2 PRODUCTO LASER
1 LUZ DE LASER — NAO OCHE NO RAIO — CATEGORIA 2 PRODUTO LASER
1 RADIAZIONE LASER — NON FISSARE IL FASCIO — APPARECCHIO LASER DI CLASSE 2
1 VARNING — LASERSTRÅLNING — STIRRA IJ IN I STRÅLEN — KLASS 2 LASER APPARAT
1 ADVARSEL — LASERSTRÅLING IKKE STIRR INN I STRÅLEN — LASER KLASSE 2 PRODUKT
1 ADVARSEL — LASERSTRÅLING — SE IKKE IND I STRÅLEN — KLASS 2 LASER PRODUKT

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.

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:	**EN SS022-B** **EN 50082-1** **EN 60950** **EN 60825-1**
Equipment Type:	**Bar code scanning equipment**
Product:	**QuickScan Pen**

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