Intermec

Quick Reference Guide

1550 Laser Scanner

Contents

This quick reference guide provides basic operating procedures and safety instructions. Keep this guide near your scanner for reference.

Overview of the 1550 Laser Scanner

The Intermec 1550 laser scanner delivers quick, effortless bar code scanning. These colors and configurations are available:

Model	Color and Configuration
1550B0100	Blue with Intermec interface and standard optics.
1550B0102	Blue with Intermec interface and long-range optics.
1550B0104	Blue with Intermec interface and high-visibility optics.
1550B0105	Blue with Intermec interface and high density optics.
1550B0200	Blue with Intermec interface, standard optics, and configured for auto-trigger mode.
1550B0300	Light gray with Intermec interface and standard optics.
1550B0400	Light gray with Intermec interface, standard optics, and configured for auto-trigger mode.

Colors and Configurations (continued)

Model	Color and Configuration
1550B0500	Blue with other manufacturer's interface and standard optics.
1550B0502	Blue with other manufacturer's interface and long-range optics.
1550B0504	Blue with other manufacturer's interface and high-visibility optics.
1550B0505	Blue with other manufacturer's interface and high-density optics.
1550B5100	Blue with Intermec interface, standard optics, and a nonincendive certification for use with Intermec models J2010NI and JG2010NI.

Unpacking the 1550 Laser Scanner
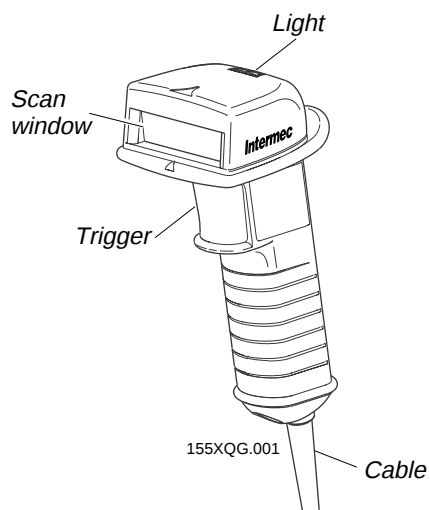
Your 1550 laser scanner was thoroughly tested and inspected before it was shipped from the factory. The shipping box contains the laser scanner and this guide.

Note: You must order the appropriate interface cables separately. See "Connecting to an Intermec Product" later in this document.

If any of these items are missing or damaged, please contact your local Intermec representative. Retain the shipping box in case you need to return the scanner for service.

Understanding the 1550 Features

The 1550 laser scanner is easy to install and operate. Please acquaint yourself with the important parts of the scanner before continuing.

Light

The light indicates the status of the scanner.

Color	Description
Yellow	The device is scanning.
Green	The bar code has been successfully scanned.
None	The device is not scanning.

Electrical Rating

The 1550B01XX, 02XX, 03XX, 04XX, and 51XX laser scanner electrical ratings are $---$ 4,5 to 5,5V; 125 mA.

The 1550B05XX laser scanner electrical rating is $---$ 4,5 to 12,0V; 125 mA.

Connecting to an Intermec Product

You can connect the 1550 laser scanner to these Intermec products:

- 9450 RF Vehicle-Mount Terminals
- 95XX Network Terminals
- 97XX Wedge Readers
- JANUS™ 2010 Hand-Held Computers (J2010 and JG2010)
- JANUS™ 2050 Vehicle-Mount Computers (J2050 and JG2050)
- TRAKKER® Antares™ 242X Terminals (T242X)
- TRAKKER® 944X Portable Terminals
- TRAKKER® 9465 RF Portable Terminals

You must purchase an interface cable to connect the scanner to a reader/terminal. Use this table to determine the cable to order:

Reader/Terminal	Length	Cable Connector	P/N
944X	6 ft (1.83m)	6 Pin Modular, Blue Cap	063694
95XX	6 ft (1.83m)	9 Pin D-Sub, Blue Cap	063698
95XX	25 ft (7.63m)	9 Pin D-Sub, Blue Cap	064045
946X, 9450	6 ft (1.83m)	11 Pin Sealed, Blue Cap	063697
946X, 9450	25 ft (7.63m)	11 Pin Sealed, Blue Cap	064047
97XX, J2010, JG2010, T242X	6 ft (1.83m)	10 Pin Modular, Blue Cap	063695
97XX, J2010, JG2010, T242X	15 ft (4.57m)	10 Pin Modular, Blue Cap	065601
97XX, J2010, JG2010, T242X	25 ft (7.63m)	10 Pin Modular, Blue Cap	064044
97XX, J2010, JG2010, T242X	6 ft (1.83m)	10 Pin Modular, Gray Cap	064029
97XX, J2010, JG2010, T242X	25 ft (7.63m)	10 Pin Modular, Gray Cap	064043
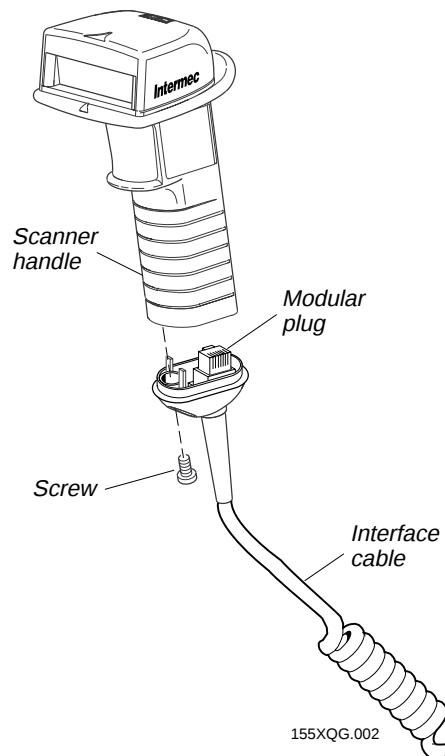
Cable Connectors (continued)

Reader/Terminal	Length	Cable Connector	P/N
J2050, JG2050	6 ft (1.83m)	11-Pin Sealed, Blue Cap	064051
J2050, JG2050	25 ft (7.63m)	11-Pin Sealed, Blue Cap	064052
MaxiLAN CX, MaxiLAN DX, MicroBAR NX, MaxiBAR, and other manufacturer reader/terminal	6 ft (1.83m)	9 Pin Squeeze D-Sub, Blue Cap	063696
MaxiLAN CX, MaxiLAN DX, MicroBAR NX, MaxiBAR, and other manufacturer reader/terminal	25 ft (7.63m)	9 Pin Squeeze D-Sub, Blue Cap	064046

To connect the scanner to a reader/terminal

1. Turn off the reader/terminal.

2. Connect the modular plug on the interface cable into the bottom of the scanner handle.

3. Tighten the screw using a medium-sized, straight-slot screwdriver to secure the plug in the scanner handle.

4. Connect the other end of the cable to the reader/terminal.

   Note: The cable connector plug for the reader/terminal will vary according to the cable you ordered.

Scanner handle

Modular plug

Screw

Interface cable

155XQG.002

See "Operating the 1550 Laser Scanner" in the next section to learn basic scanning operation, scanning tips, and how to scan hands-free using the scanner stand.
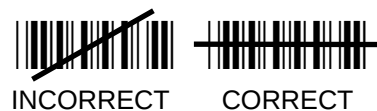
Operating the 1550 Laser Scanner

Before you start scanning, make sure the power to the reader/terminal is on and all cable connections are secure.

1. Aim the scanner at a slight angle or pitch to the bar code and press the trigger. To help you center the laser beam on the correct bar code, the scanners with long-range or high-visibility optics have a marker beam that will appear when you pull the trigger.

2. When you get a successful read the laser beam turns off, the scanner beeps once, and the light turns green.
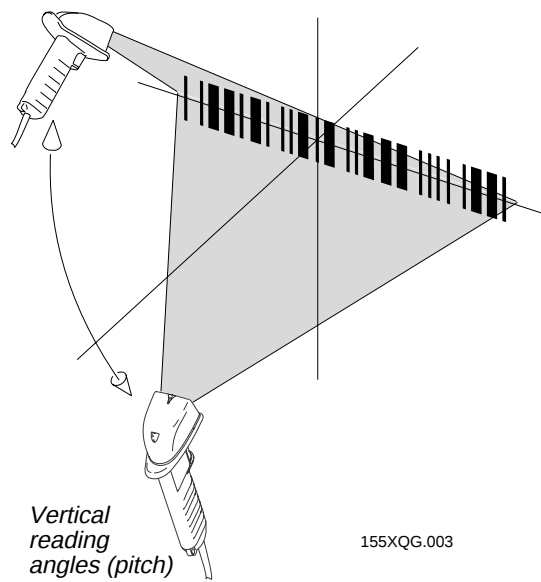
Scanning Tips

Adjust the scanner distance to the bar code and the position of the laser beam to make sure every bar and space is scanned.

INCORRECT   CORRECT

155XQG.006

Hold the scanner at a slight angle or pitch to the bar code. The laser beam will quickly read the bar code.

Vertical reading angles (pitch)

155XQG.003

For scanners with long-range or high-visibility optics, use the marker beam to center the scanner's laser beam on the bar code you want to scan.
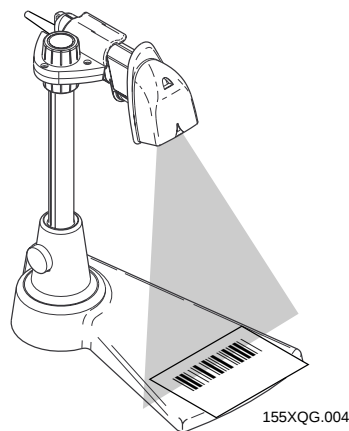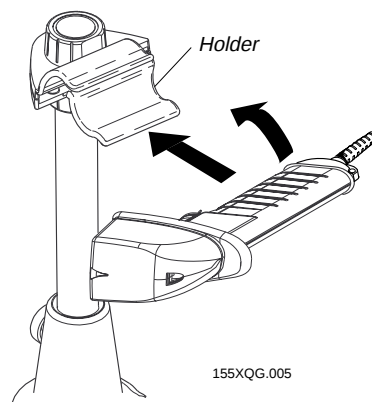
Hands-Free Scanning

If you have an auto-trigger scanner (1550B0200 or 1550B0400), you can use the scanner stand for hands-free scanning. To order a scanner stand, see "Accessories" later in this guide.

Note: Using the IRL Z command for remote triggering will not work with the 1550 scanner.

To scan a bar code using the scanner stand

1. Place the scanner handle on the bottom ledge of the holder and then rotate the handle in the holder until it locks into place.

2. Align the scanner and adjust the column height so that the pulsating laser beam covers the entire label on the base of the stand.

3. To scan a bar code, place it right-side up over the label on the base of the stand.

When the reader/terminal beeps, the bar code has been successfully read.

Note: If your scanner stand does not have a small magnet in the holder, you need to upgrade your stand using upgrade kit part number 066799.

Holder

155XQG.005

155XQG.004

Troubleshooting the 1550 Laser Scanner

This table lists common scanner problems and their solutions.

Problem	Solution
Scanner cannot read certain bar codes.	The reader/terminal was not set up to read this type of bar code, or the bar code is damaged, covered up, or poor quality.
	Scan another bar code on a similar item. If it scans, clean the bar code giving you trouble.
	If you are still unable to scan the bar code, enable other bar code symbologies in the reader/terminal.
Scanner does not read bar codes quickly and sometimes requires multiple scans.	Clean the window with a cotton cloth moistened with an ammonia or water solution. Dry with a soft cotton cloth or allow to air dry.
	Make sure the bar code is free of dirt and grime. Then scan at a slight angle to the bar code (see "Scanning Tips" earlier in this guide). The laser beam will quickly read the bar code.
Scanner does not read "shiny" bar codes.	Scan at a slight angle or pitch to the bar code (see "Scanning Tips" earlier in this guide). The laser beam will quickly read the bar code.
Scanner does not emit a beam and does not operate.	The scanner is not receiving power. Make sure the scanner cables are securely plugged in and the terminal is on. Replace damaged cables.

If you continue to encounter problems operating your scanner, contact your local Intermec representative.

Maintaining the 1550 Laser Scanner
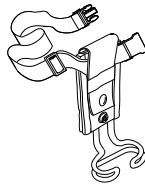
Water or grime on the window of the scanner distorts the laser beam and may impair performance. Moving from one temperature extreme to another causes condensation to form on the optical surfaces and also affects scanner performance.

Follow these guidelines to maintain the scanner:

- Clean the window with a cotton cloth moistened with an ammonia or water solution. Dry with a soft cotton cloth or allow to air dry.

- Do **not** use a dry tissue to wipe the window. This causes small scratches on the window that will gradually affect performance.

- Do **not** immerse the unit in water.

- Operate and store in an environment with 5% to 95% relative humidity.

- Operate in temperatures within -22° to 122° F (-30° to 50° C) and store in temperatures within -40° to 158° F (-40° to 70° C).

Accessories

These accessories are available for your 1550 laser scanner. To order an accessory, call your local Intermec representative.

Holster and Belt
Part No. 063793
You can store your scanner on you when it is not in use. The holster can be used with the belt provided or with any regular belt.
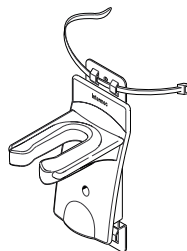
Wall-Mount Scanner Holder
Part No. 063909
The wall-mount is a convenient way to store your scanner when it is not in use.

Vehicle-Mount Scanner Holder
Part No. 063910
You can attach the vehicle-mount to a post or surface of a vehicle with tie-wraps and double-stick tape.
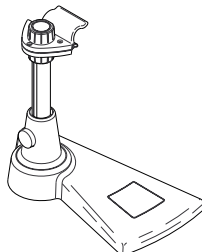
Desk-Mount Scanner Holder
Part No. 063812
The desk-mount is a convenient way to store your scanner on your desk.

Scanner Stand
Part No. 063799
If you have an auto trigger scanner, you can use the scanner stand for hands-free scanning.

Note: If your scanner stand does not have a small magnet in the holder, you need to upgrade your stand using upgrade kit part number 066799.

Regulatory Statements for Canada and the United States

These regulatory statements apply to the 1550 laser scanner.

Industry Canada Compliance

This Class B digital apparatus meets all requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte routes les exigences du règlement sur le matériel du Canada.

Federal Communications Commission Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that can cause undesired operation.

This equipment is intended for operation in a commercial environment, in compliance with the requirements for a Class A digital device, pursuant to Part 15 of the FCC Rules, and it must not be used in a residential environment; however, it has also been tested and found to comply with the more stringent requirements for a Class B device, pursuant to Part 15 of the FCC Rules. It generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instruction manual, it may cause interference to radio communications. If this equipment causes interference, the user will be required to correct the interference at the user's own expense.

Note: In order to maintain compliance with FCC Rules, the I/O cables that interconnect between the device and any peripheral (such as a reader, etc.) must be as specified by Intermec.

Laser Compliance and Precaution

The 1550 laser scanner complies with the following standards for laser safety:

CDRH - Class II Laser Product (CFR 21 Subpart J)

This product has a maximum output of 1 mW at 630-680 nm.

WARNING

Warning
There are no user serviceable parts inside this laser scanner. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure of up to 1 mW at 630-680 nm.

Avertissement
Cette scanneur à laser ne contient pas de pièces révisibles par l'utilisateure. L'emploi de commandes ou d'ajustements ou de performances des procédures autres que ceux précisés dans cette documentation pourrait avoir comme résultat l'exposition à l'irradiation laser nuisible de jusqu' à 1 mW à 630-680 nm.

Note: There are no controls or adjustments provided for routine operation or maintenance of the 1550.

Remarque: Aucun appareil de contrôle ou d'ajustement n'est fourni pour les opérations de routine ou de maintenance de l'appareil 1550.

UL Information. The 1550 is UL Listed (UL 1950/C22.2 No. 950) when used with Intermec's other UL Listed readers.

Nonincendive Information for Canada and the US

The following information pertains only to 1550 when ordered with the Hazardous Location Protection option (1550B5100). These units are marked Model 1550NI. No other configuration of this product is suitable for use in Division 2 locations.

The 1550NI is UL Listed as Nonincendive (UL-1604 and C22.2 #213) only when connected to Intermec's models J2010NI and JG2010NI. This information is suitable for use in the following hazardous locations:

Division 2

Class I - Groups A, B, C, and D

Class II - Groups F and G

Class III

Temperature Code T4A

Maximum Operating Ambient: 50°C

Note: Hazardous Locations are defined in articles 500-503 of the National Electrical Code (NEC).
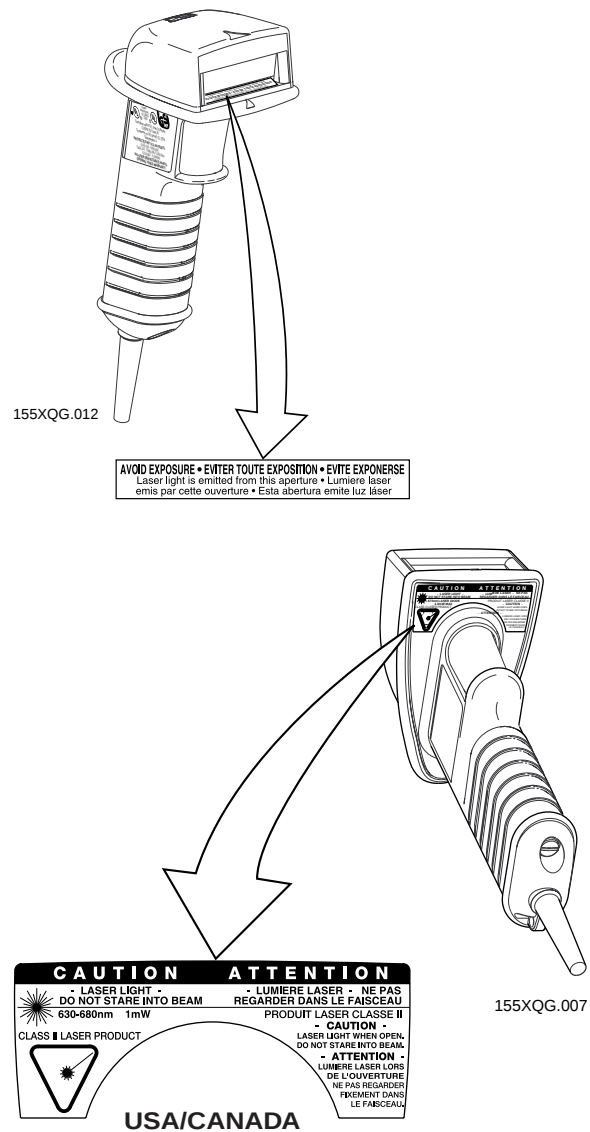
WARNING

Warning
The 1550NI is rated Nonincendive as long as it is not abused or damaged and is used according to its operating instructions. If these conditions are not met, this device must not be operated in a Division 2 environment.

Le 1550NI est classé Non incendiaires aussi longtemps qu'il ne subit pas d'abus ou de dommages et qu'il est utilisé en conformité avec son mode d'emploi. Si ces conditions ne sont pas remplies, cet appareil ne doit pas être utilisé dans un environnement de Division 2.

These labels provide important laser safety information.

155XQG.012

AVOID EXPOSURE • EVITER TOUTE EXPOSITION • EVITE EXPONERSE
Laser light is emitted from this aperture • Lumiere laser
emis par cette ouverture • Esta abertura emite luz láser

C A U T I O N   A T T E N T I O N
· LASER LIGHT ·   · LUMIERE LASER · NE PAS
DO NOT STARE INTO BEAM   REGARDER DANS LE FAISCEAU
630-680nm   1mW   PRODUIT LASER CLASSE II
                                          · CAUTION ·
CLASS II LASER PRODUCT   LASER LIGHT WHEN OPEN.
                                     DO NOT STARE INTO BEAM.
                                          · ATTENTION ·
                                       LUMIERE LASER LORS
                                        DE L'OUVERTURE
                                        NE PAS REGARDER
                                        FIXEMENT DANS
                                        LE FAISCEAU.

155XQG.007

USA/CANADA

Regulatory Statements For Users Outside of Canada and the United States

These regulatory statements apply to the 1550 laser scanner.

European Union Compliance

This product complies with EN 55022, EN 50082-1, EN 60950, and EN 60825-1 as required by the EMC Directive 89/336/EEC as amended by 92/31/EEC and by the Low Voltage Directive 73/23/EEC as amended by 93/68/EEC.

Agency Approvals

The 1550 is UL Listed (UL 1950/C22.2 No. 950) and TÜV GS licensed (EN 60950 and EN 60825-1) for safety.

Additional EMI/RFI Compliance

This device meets the Class B limit requirements of CISPR 22.
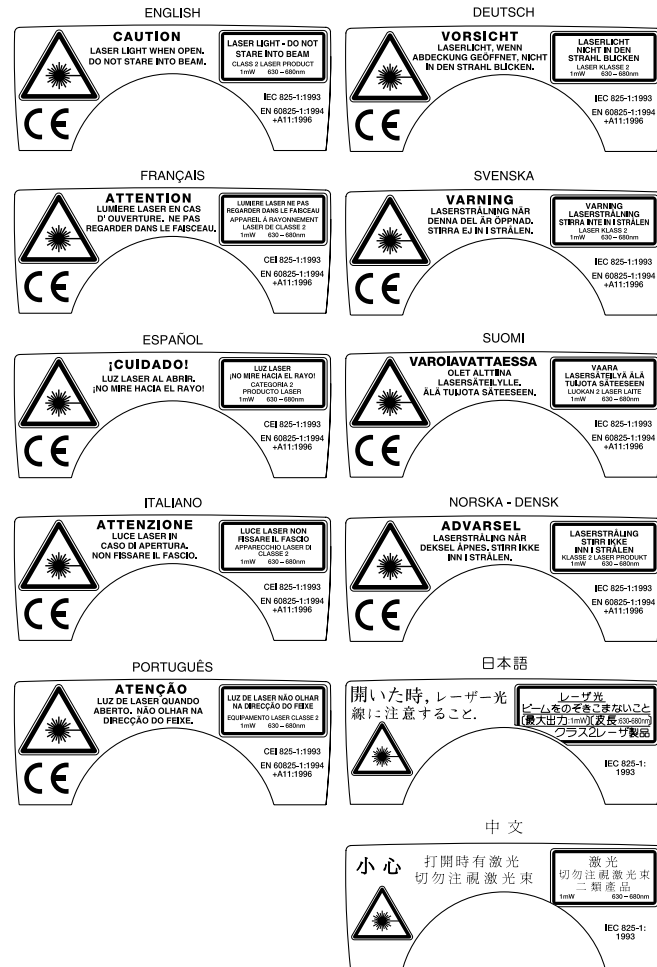
Laser Compliance and Precaution

The 1550 laser scanner complies with the following standards for laser safety:

> IEC 825-1 / EN 60825-1 - Class 2 Laser Product
> (1 mW, 630-680 nm)

The 1550 is provided with one of the labels illustrated later in this guide. If the appropriate label is not installed, locate the sheet of labels that was shipped with your 1550 and place the appropriate label over the existing label.

Laser Safety Labels

ENGLISH

CAUTION
LASER LIGHT WHEN OPEN.
DO NOT STARE INTO BEAM.

LASER LIGHT - DO NOT
STARE INTO BEAM
CLASS 2 LASER PRODUCT
1mW   630 – 680nm

IEC 825-1:1993
EN 60825-1:1994
+A11:1996

DEUTSCH

VORSICHT
LASERLICHT, WENN
ABDECKUNG GEÖFFNET. NICHT
IN DEN STRAHL BLICKEN.

LASERLICHT
NICHT IN DEN
STRAHL BLICKEN
LASER KLASSE 2
1mW   630 – 680nm

IEC 825-1:1993
EN 60825-1:1994
+A11:1996

FRANÇAIS

ATTENTION
LUMIERE LASER EN CAS
D' OUVERTURE. NE PAS
REGARDER DANS LE FAISCEAU.

LUMIERE LASER NE PAS
REGARDER DANS LE FAISCEAU
APPAREIL À RAYONNEMENT
LASER DE CLASSE 2
1mW   630 – 680nm

CEI 825-1:1993
EN 60825-1:1994
+A11:1996

SVENSKA

VARNING
LASERSTRÅLNING NÄR
DENNA DEL ÄR ÖPPNAD.
STIRRA EJ IN I STRÅLEN.

VARNING
LASERSTRÅLNING
STIRRA INTE IN I STRÅLEN
LASER KLASS 2
1mW   630 – 680nm

IEC 825-1:1993
EN 60825-1:1994
+A11:1996

ESPAÑOL

¡CUIDADO!
LUZ LASER AL ABRIR.
¡NO MIRE HACIA EL RAYO!

LUZ LASER
¡NO MIRE HACIA EL RAYO!
CATEGORIA 2
PRODUCTO LASER
1mW   630 – 680nm

CEI 825-1:1993
EN 60825-1:1994
+A11:1996

SUOMI

VAROIAVATTAESSA
OLET ALTTIINA
LASERSÄTEILYLLE.
ÄLÄ TUIJOTA SÄTEESEEN.

VAARA
LASERSÄTEILYÄ ÄLÄ
TUIJOTA SÄTEESEEN
LUOKAN 2 LASER LAITE
1mW   630 – 680nm

IEC 825-1:1993
EN 60825-1:1994
+A11:1996

ITALIANO

ATTENZIONE
LUCE LASER IN
CASO DI APERTURA.
NON FISSARE IL FASCIO.

LUCE LASER NON
FISSARE IL FASCIO
APPARECCHIO LASER DI
CLASSE 2
1mW   630 – 680nm

CEI 825-1:1993
EN 60825-1:1994
+A11:1996

NORSKA - DENSK

ADVARSEL
LASERSTRÅLING NÄR
DEKSEL ÅPNES. STIRR IKKE
INN I STRÅLEN.

LASERSTRÅLING
STIRR IKKE
INN I STRÅLEN
KLASSE 2 LASER PRODUKT
1mW   630 – 680nm

EN 60825-1:1994
+A11:1996

PORTUGUÊS

ATENÇÃO
LUZ DE LASER QUANDO
ABERTO. NÃO OLHAR NA
DIRECÇÃO DO FEIXE.

LUZ DE LASER NÃO OLHAR
NA DIRECÇÃO DO FEIXE
EQUIPAMENTO LASER CLASSE 2
1mW   630 – 680nm

CEI 825-1:1993
EN 60825-1:1994
+A11:1996

日本語

開いた時，レーザー光
線に注意すること．

レーザ光
ビームをのぞきこまないこと
最大出力1mW 波長630-680nm
クラス2レーザ製品

IEC 825-1:
1993

中 文

小 心
打開時有激光
切勿注視激光束

激 光
切勿注視激光束
二類產品
1mW   630 – 680nm

IEC 825-1:
1993

155XQG.015

Patents

The 1550 laser scanner is covered by one or more of these U.S. Patents:

4,360,798; 4,369,361; 4,387,297; 4,496,831; 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,816,660; 4,845,350; 4,896,026; 4,923,281; 4,992,717; 5,017,765; 5,047,617; 5,113,445; 5,140,144; 5,149,950; 5,168,148; 5,168,149; 5,180,904; 5,247,162; 5,250,792; 5,262,627; 5,280,163; 5,280,164; 5,304,786; 5,304,788; 5,367,151; 5,373,148,; 5,396,053; 5,408,081; 5,410,139; 5,436,440; 5,468,949; 5,479,000.

Other U.S. and foreign patents pending.