

5300IP50 Long Range Bar Code Laser Scanner

Long Range Handheld Scanner for General Warehouse and Distribution Center Applications

- **Short and long distance scanning with one scanner**
- **Read 7.5 mil to 100 mil labels**
- **Ideal for warehouse operations**

The 5300IP50 long range handheld bar code laser scanner is designed to read medium to low density bar code labels at surprisingly long distances. This ergonomically designed model combines short and long range features in one scanner, making it the ideal scanner for warehouse, distribution, and fork lift applications.

Versatile Scanning

The 5300IP50 scanner is capable of reading both paper and retroreflective labels. The depth of field for a 55 mil paper label is 15" to 8' (38.1 cm to 2.4 m) and for retroreflective labels, the depth of field gets even better. A 100 mil label, for example, can be read from 40" to 22' (101.6 cm to 6.7 m).

Guaranteed Quality

Constructed for durability and ruggedness this scanner can withstand multiple 6' drops to concrete. It comes with a protective rubber boot, has a spring return trigger, features high impact optics, incorporates a strain relief cable and operates in temperatures from -22° to 120° F (-30° to 50° C).



Additional Features

Total Flexibility

- **Enhanced depth of field:**
Reads 7.5 to 55 mil bar codes printed on paper labels at distances from 6" to 8' and reads 40 to 100 mil codes on retroreflective labels at distances from 2 to 22'. Scanners easily read the most demanding codes in use, even at long ranges, on rough or uneven surfaces, through glass, or in bright ambient sunlight. Good reads are less dependent on precise distance from scanner target.
- **Durability:**
Built so tough a 6' drop to concrete won't hurt it. Especially useful in general warehouse and distribution center applications. Forklift operators can scan without dismounting.
- **Wide variety of interfaces:**
Complete interface selection permits use with all popular computer systems, from main frame to handheld data collection units.
- **Programmability:**
Bar code menu for programming of integrated models. Programmable marker beam shows the operator exactly where the unit is aimed ensuring error-free scanning of hard-to-target codes.

Convenient Accessories

By adding the optional scanner holster and take-up reel, this becomes the ideal scanner for many applications, where easy access and protective storage are required.



When You Need To Read A Bar Code

5300IP50 Long Range Bar Code Laser Scanner

SPECIFICATIONS

MECHANICAL

Dimensions 5.4 x 2.9 x 7.0" (LxWxH)
(13.9 x 7.5 x 17.9 cm)

Weight

• **Scanner & Boot** 8.7 ozs. (245 g)

OPTICAL

Light source 670nm VLD
(Visible Laser Diode)

Rate 30 scans/sec. nominal

Depth of field
(printing resolution, contrast and ambient light dependent)

• **Paper Labels**

7.5 mil	6.0"	to	10.0"	(15.0 to 25.0 cm)
10 mil	5.0"	to	20.0"	(12.7 to 50.0 cm)
15 mil	4.0"	to	32.0"	(10.1 to 81.0 cm)
20 mil	6.0"	to	48.0"	(15.0 to 121.0 cm)
40 mil	8.0"	to	84.0"	(20.0 to 213.0 cm)
55 mil	15.0"	to	96.0"	(38.0 to 243.0 cm)

• **Retroreflective Labels**

40 mil	24.0"	to	8.3'	(60.0 cm to 2.5 m)
55 mil	30.0"	to	10.0'	(76.0 cm to 3.0 m)
70 mil	40.0"	to	13.6'	(101.0 cm to 4.0 m)
100 mil	40.0"	to	22.0'	(101.0 cm to 6.7 m)

Print contrast ratio 25% minimum

Pitch ±65°

Skew ±55°

Ambient light immunity

Sunlight: 8,000 foot candles

ELECTRICAL

Operating voltage 4.5 to 14 VDC

Operating current - nominal 135mA

ENVIRONMENTAL

Temperature rating

- **Operating** -22° to 120° F (-30° to 50° C)
- **Storage** -40° to 158° F (-40° to 70° C)

Humidity 5 to 95% NC

Shock (at 23°C) withstands multiple six-foot (1.8 m) drops to concrete.

Electrostatic discharge 15 kv to any external surface

DECODING CAPABILITY

(autodiscriminates between)

- **UPC A, E / EAN 8, 13 / JAN 8, 13**
(P2 / P5, Code 128 EAN add-ons)
- **Code 128** • **MSI / Plessey**
- **Code 39** • **Interleaved 2 of 5**
- **Code 39 Full ASCII** • **Standard 2 of 5**
- **Code 93** • **Codabar**

COMMUNICATIONS

- **RS-232 / Wand Emulation**
- **IBM 468X** • **Serial/TTL**
- **Keyboard Wedge**

SAFETY / REGULATORY

Electrical Complies to: TÜV; UL; CSA

Emissions Complies to: FCC-A; EN 55022-A

Laser classification CDRH Class II;
(CAUTION: Laser Radiation – do not stare into beam);
IEC 60825 Class 2



Specifications are subject to change without notice.
For further information, contact your PSC representative.

PSC Worldwide Website: www.pscnet.com



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09/99 – 5M

5300IP70 Extra Long Range Bar Code Laser Scanner

Extra Long Range Handheld Scanner for a Variety of Applications

- **Designed for ultra long distance, general warehouse and distribution center applications**

The model 5300IP70 handheld scanner combines excellent depth of field with marker-beam aiming for rapid, sure scanning in a variety of applications. This model also comes standard with an extra bright laser, ideal for outdoor applications where long distance scanning is required.

Versatile, Extra Long Range Scanning

The right choice for use in extra long range warehouse and distribution center applications, it reliably reads 15 to 100 mil bar codes printed on standard paper from distances of 2'4" to 16' (0.71 to 4.88 m) or 30 to 100 mil retroreflective labels from 3' to 35' (0.91 to 10.67 m). "Scanning" and "Good read" LED's as well as an audible tone tell the user when the scan is in process and successfully completed.

Guaranteed Quality

Constructed for durability and ruggedness this scanner can withstand multiple 6' drops to concrete. It comes with a protective rubber boot, features high impact optics, incorporates a strain relief cable and operates in temperatures from -22° to 120° F (-30° to 50° C).



Additional Features

Total Flexibility

- **Enhanced depth of field:**
Reads 15 to 100 mil bar codes printed on paper labels at distances from 2' 4" to 16' (0.71 to 4.88 m) and reads 30 to 100 mil codes on retroreflective labels at distances from 3 to 35' (0.91 to 10.67 m). Scanners easily read the most demanding codes in use, even at long ranges, on rough or uneven surfaces, through glass, or in bright ambient sunlight. Good reads are less dependent on precise distance from scanner target.
- **Durability:**
Built so tough a 6' drop to concrete won't hurt it. Especially useful in general warehouse and distribution center applications. Forklift operators can scan without dismounting.
- **Wide variety of interfaces:**
Complete interface selection permits use with all popular computer systems, from main frame to handheld data collection units.
- **Programmability:**
Bar code menu for programming of integrated models. Programmable marker beam shows the operator exactly where the unit is aimed ensuring error-free scanning of hard-to-target codes.

Convenient Accessories

By adding the optional scanner holster and take-up reel, this becomes the ideal scanner for applications, like warehouse forklift operations, where easy access and protective storage are required.



When You Need To Read A Bar Code

5300IP70 Extra Long Range Bar Code Laser Scanner

SPECIFICATIONS

MECHANICAL

Dimensions 5.6 x 2.8 x 6.6" (LxWxH)
(14.2 x 7.1 x 16.8 cm)

Weight

• **Scanner & Boot** 8.7 ozs. (245 g)

OPTICAL

Light source 670nm VLD
(Visible Laser Diode)

Rate 20 scans/sec. nominal

Depth of field
(printing resolution, contrast and ambient light dependent)

• Paper Labels

15 mil	2'4" to 5'0"	(0.71 to 1.52 m)
40 mil	2'4" to 12'0"	(0.71 to 3.65 m)
100 mil	4'0" to 16'0"	(1.22 to 4.88 m)

• Retroreflective Labels

30 mil	3.0' to 11.0'	(0.91 to 3.35 m)
70 mil	10.0' to 25.0'	(3.04 to 7.62 m)
100 mil	10.0' to 35.0'	(3.04 to 10.37 m)

Print contrast ratio 25% minimum

Pitch ±65°

Skew ±55°

Ambient light immunity

Sunlight: 8,000 foot candles

ELECTRICAL

Operating voltage 4.5 to 14 VDC

Operating current - nominal 135mA

ENVIRONMENTAL

Temperature rating

• **Operating** -22° to 120° F (-30° to 50° C)

• **Storage** -40° to 158° F (-40° to 70° C)

Humidity 5 to 95% NC

Shock (at 23°C) withstands multiple
six-foot (1.8 m) drops to concrete.

Electrostatic discharge 15 kv to any
external surface

DECODING CAPABILITY

(autodiscriminates between)

• **UPC A, E / EAN 8, 13 / JAN 8, 13**
(P2 / P5, Code 128 EAN add-ons)

• **Code 128**

• **MSI / Plessey**

• **Code 39**

• **Interleaved 2 of 5**

• **Code 39 Full ASCII**

• **Standard 2 of 5**

• **Code 93**

• **Codabar**

COMMUNICATIONS

• **RS-232 / Wand Emulation**

• **IBM 468X**

• **Serial/TTL**

• **Keyboard Wedge**

SAFETY / REGULATORY

Electrical Complies to: TÜV; UL; CSA

Emissions Complies to: FCC-A; EN 55022-A

Laser classification CDRH Class IIIA;
(CAUTION: Laser Radiation –
do not stare into beam);
IEC 60825 Class 3B



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09/99 – 5M

5300IP9X AutoRange™ Bar Code Scanner

Extended Depth Of Field Scanner For Reading A Broad Range Of Bar Code Densities, From Close Up To Long Range

- Ideally suited for warehouse and distribution center applications
- Designed to read bar codes equally well in up-close picking and long-range storage bin applications
- Reads high density paper and low density retroreflective bar codes

The Broadest Working Range In Typical Industrial Applications

The 5300IP9X AutoRange™ Bar Code Scanner is an industrial bar code reader which provides the broadest depth of field for reading bar codes in shipping, receiving and inventory management applications. Simply put, this scanner, which incorporates the ability to read both high density paper labels from up close and low density retroreflective labels at long distances, performs the tasks that previously took 2 different scanners.

Superior Optical Design Provides The 5300AR With The Most Versatile Scanning Performance

The key to the 5300IP9X scanner's extended depth of field is its advanced optics. Like having two scanners in one, the 5300IP9X scanner is designed with 2 visible laser diodes which combined with an efficient optical design allow it to read bar codes over a broader working range.



In long-range applications, the 5300IP9X scanner "reads" lower density bar codes at distances up to 40.0' (12.19m) using a long-range laser diode and long-range optical design features. A marker beam assists the operator by momentarily providing an aiming reference point on a label's surface when the scanner's trigger is initially activated.

For near contact applications, from 6.0" (15.2cm), the scanner "reads" higher density labels utilizing a second near-range laser diode and near-range optical design features. The unique design enables two lasers to work efficiently together for superior overall performance, and allows an operator to use a single scanner for multiple applications... boosting productivity and the bottom line.

Built Tough To Meet The Most Demanding Scanning Requirements

The 5300IP9X scanner, like all of PSC's Industrial Performance scanners, is built tough to take the abuse of demanding work environments. A protective rubber boot, reinforced cable connections, and a secure seal to protect from rain and dust, guard against the effects of the harshest environments. Even after sharp blows against a fork lift, or repeated 6' (1.8m) drops to the ground, the 5300IP9X provides snappy and responsive scanning on tough to read bar codes.

Other Features Include:

- Audible tone and visible LED indicate "Scanning" and "Good Read"
- Marker beam assures accurate aiming at long distances
- A variety of interfaces simplify connectivity to any portable or fixed computer system.



When You Need To Read A Bar Code

5300IP9X AutoRange™ Bar Code Scanner

SPECIFICATIONS

MECHANICAL

Weight:	8.7 ounces (245g)
Size:	5.4" L x 2.9" W x 7.0" H (13.9cm L x 7.5cm W x 17.9cm H)

OPTICAL

Scan system:	Dithering mirror
Scan rate:	30 scans/second
Wavelength (nominal):	670nm
Maximum pitch:	±65°
Maximum Skew:	±55°
Ambient Light:	8,000 foot candles (86000 Lux), full sunlight

Depth-of-field:
(Nominal; IEC Class II version; resolution, contrast,
& ambient light dependent)

Paper

- **7.5 mil** 7.0" to 11.0" (17.8 to 27.9cm)
- **10 mil** 6.0" to 20.0" (15.2 to 50.8cm)
- **15 mil** 9.0" to 60" (22.9 to 152.4cm)
- **20 mil** 9.0" to 84" (22.9 to 213.4cm)
- **55 mil** 18" to 180" (45.7 to 457.2cm)

Retroreflective

- **70 mil** 4.0' to 25.0' (1.22 to 7.62m)
- **100 mil** 5.0' to 40.0' (1.52 to 12.19m)

ELECTRICAL

Voltage:	4.75 to 14 VDC
Current (Operating):	
• Undecoded	100mA nominal 140mA maximum
• Decoded	+40mA nominal

ENVIRONMENTAL

Temperature rating:	
• Operating:	-22° to 122° F (-30° to 50° C)
• Storage:	-40° to 158° F (-40° to 70° C)
Humidity:	5 to 95% (non condensing)
Dust and Rain:	Resistant to dust & rain MIL STD 810E Method 510.3 MIL STD 810E Method 506.3
Surface discharge:	up to 15KV
Durability:	6' (1.8m) drop to concrete
Vibration:	Operates in all typical and heavy industrial environments MIL STD 810E, Method 514.4 Cat 10

COMMUNICATIONS

- **Wand emulation**
- **RS232**
- **Keyboard wedge**

DECODING CAPABILITY

- **UPCA, E / EAN 8, 13 / JAN 8, 13**
- **Code 128**
- **Code 39**
- **Interleaved 2 of 5**
- **Standard 2 of 5**
- **Codabar**
- **MSI/Plessey**

SAFETY / REGULATORY

Electrical:	UL, ULc, TUV, CE
EMC:	FCC Class A, EN55022 Class B, EN50082-1 (Immunity)
Laser Classification:	CDRH Class II IEC Class 2



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