

## 7666 Industrial Bar Code Scanners



### FEATURES

- Available in standard range, long range and extra long range formats
- Environmentally sealed to protect against dust and moisture in the toughest industrial applications
- Positive trigger feedback for gloved-hand operation
- Programmable scan angle, beeper tone and volume
- Flexible and extensive interface capabilities
- QuadraLogic™ decoding software to ensure a successful read of even the most smudged and damaged labels
- Designed with impact-resistant material and protective rubber cushioning to withstand the inevitable drops and bumps in harsh industrial environments

## A Tough Tool For Your Toughest Jobs

WITH FLEXIBLE INTERFACE CAPABILITIES

You can rely on the 7666 family of handheld laser bar code scanners for fast, accurate bar code reading, from up close to as far away as 11m (36 feet ). Labels previously considered unreadable can now be read using PSC's superior decoding software, QuadraLogic™. The scanner auto-discriminates all standard bar code symbologies and automatically adjusts to read a wide range of code densities. Built with tough, impact-resistant material and protective rubber cushioning at every point of impact, 7666 Teklogix scanners are designed to hold up in the harshest industrial environments. And if you're looking for a broad range of communication options, the 7666 family of scanners is the obvious choice. PSC's AutoSelect™ feature allows you to move easily between various hosts and applications with a simple cable change.



*information in motion*



# 7666 Industrial Bar Code Scanners

## Specifications



7666 Scanner



7666 RF Scanner (cordless)

### MECHANICAL

- Dimensions: 6.9 x 11.2 x 18.3cm/2.7 x 4.4 x 7.2"
- Weight:  
Scanner: 280g/9.9 oz.  
Cable: 82.3cm/32"; 176g/6.2 oz.
- Cable lengths:  
Collapsed: 81cm/32"  
Max. Working: 183cm/72"  
Collapsed: 203cm/80"  
Max. Working: 305cm/120"

### ELECTRICAL

- Operating voltage: 4 VDC to 14 VDC
- Operating current – nominal:  
Undecoded: 75mA @ 5VDC (STD & HD)  
Undecoded: 95mA @ 5VDC (LR & XLR)  
Decoded: 100mA @ 5VDC
- Idling current – low power mode:  
<50µA @ 5VDC

### ENVIRONMENTAL

- Temperature rating:  
Operating: -30° to 50°C/-22° to 122° F  
Storage: -40° to 70°C/-40° to 158° F  
Humidity: 5 to 95% NC  
Shock (at 23°C): withstands multiple six-foot drops to concrete  
Vibration: meets MIL-STD-810E  
Water & Dust: IEC529 rating IP54DW

### DECODING CAPABILITY

- 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, Pharmacode 39, BC412 (autodiscriminates between codes)

### COMMUNICATIONS

- Undecoded:  
Standard and Intermec-compatible
- Multi-interface modules (interchangeable)  
RS232C/Standard Keyboard  
Wedge/Vwand Emulation  
Universal Keyboard Wedge/RS232\*  
RS232C/IBM 46XX  
(AutoSelect™ cable determines active interface)

\*This RS232 interface only supports RXD and TXD, no control signals are available.

### SAFETY / REGULATORY

- Electrical:  
Complies to: Gost R; TÜV; UL: cUL
- Emissions:  
Complies to: FCC-A; EN 55022-B  
BCIQ CNS13438; AS/NZS 3548;  
VCC1-B
- Laser classification:  
CDRH Class II;

### 7666 STD & HD INDUSTRIAL BAR CODE SCANNER

#### OPTICAL

- Light source: Extra bright 650nm Visible Laser Diode (VLD)
- Scan System: Frictionless lifetime flexure mechanism
- Rate: 37 scans/sec. nominal
- Depth of field:  
(printing resolution, contrast and ambient light dependent)

Standard Paper Labels (decoded):  
7.5 mil 9.0 to 15.0cm/3.0 to 6.0"  
10 mil 4.0 to 38.0cm/1.5 to 15.0"  
15 mil 2.5 to 64.0cm/1.0 to 25.0"  
20 mil 2.5 to 89.0cm/1.0 to 35.0"  
55 mil 15.0 to 152.0cm/6.0 to 60.0"

High Density Paper (decoded):  
3 mil 2.5 to 5.1cm/1.0 to 2.0"  
4 mil 2.5 to 8.0cm/1.0 to 2.0"  
5 mil 2.0 to 10.0cm/0.8 to 3.8"  
7.5 mil 1.5 to 11.0cm/0.6 to 4.5"  
10 mil 0.5 to 14.0cm/0.2 to 5.5"

- Print Contrast: 25% minimum
- Pitch: ±65°
- Skew: ±55°
- Ambient light immunity:  
Artificial light 1,200 foot candles  
Sunlight: 8,000 foot candles

### 7666 LR & XLR INDUSTRIAL BAR CODE SCANNER

#### OPTICAL

- Light source: Extra bright 650nm Visible Laser Diode (VLD)
- Scan System: Frictionless lifetime flexure mechanism
- Rate: 37 scans/sec. nominal
- Depth of field – Long Range:  
(printing resolution, contrast and ambient light dependent)

Paper Labels (decoded model, Code 39)  
7.5 mil 20.0 to 33.0cm/8" to 13"  
10 mil 18.0 to 50.0cm/7" to 20"  
15 mil 18.0 to 80.0cm/7" to 32"  
20 mil 13.0 to 122.0cm/5" to 4"  
40 mil 15.0 to 213.0cm/8" to 7"  
55 mil 38.0 to 274.0cm/15" to 9"

Reflective Labels (decoded model, Code 39)  
40 mil 56.0 to 254.0cm/22" to 8.3'  
55 mil 76.0 to 366.0cm/30" to 12'  
70 mil 101.0 to 457.0cm/3.3' to 15'  
100 mil 116.0 to 671.0cm/3.8' to 22'

- Depth of field – Extra Long Range:  
(printing resolution, contrast and ambient light dependent)

Paper Labels (decoded model, Code 39)  
15 mil 71.0 to 152.0cm/28" to 5'  
20 mil 71.0 to 183.0cm/28" to 6'  
40 mil 71.0 to 366.0cm/28" to 12'  
55 mil 101.0 to 457.0cm/3.3' to 15'

- Reflective Labels (decoded model, Code 39)  
40 mil 101.0 to 457.0cm/3.3' to 15'  
70 mil 204.0 to 730.0cm/6.7' to 24'  
100 mil 204.0 to 1097.0cm/6.7' to 36'
- Print Contrast: 25% minimum
- Pitch: ±65°
- Skew: ±55°
- Ambient light immunity:  
Artificial light 1,200 foot candles  
Sunlight: 8,000 foot candles

### 7666 RF SCANNER (CORDLESS) ELECTRICAL

- Voltage: Operating – Scanner: 2.4 VDC (NiMH batteries)
- Operating Current – nominal  
Scanner: 200mA @ 2.45 VDC (6000 scans per charge)
- RADIO COMMUNICATIONS
- Multi-point operation up to 8 scanners to one base station
- Channels – 10 each, software selectable
- Range (high power) 46m150'/ line of sight
- Frequency range (varies by country) –  
902 MHz - 928 MHz  
403.05 MHz - 434.79 MHz

### ENVIRONMENTAL

- Temperature rating:  
Operating: -10° to 50°C/14° to 122° F  
Storage: -20° to 60°C/-4° to 140° F
- Humidity: 5 to 95% non-condensing
- Drop Rating (at 23°C):  
Scanner: multiple 2m/6' drops to concrete  
Base Station: multiple 1m/4' drops to concrete
- Vibration: meets MIL-STD-810E
- Water & Dust: IEC529 rating IP54DW

All other specifications apply.

Base station required for cordless version.

\*Specifications are subject to change without notification.