

SCANTEAM® 3400 Series

Hand Held CCD Scanners



Description

The SCANTEAM® 3400 Series bar code scanners combine the performance advantages and durability of a CCD scanner with the distance reading ability of a laser scanner. They are comfortable to use and extremely fast at reading and decoding bar code data.

The two available SCANTEAM 3400 scanners are the 3400LR, which reads medium density bar codes at a long distance, and the 3400HD which reads high density bar codes at a short distance. They both offer non decoded or decoded output versions with interfaces for over one hundred PCs and terminals.

Several models are available to read PDF417 bar codes. The 3400PDF/HD is for general purpose reading at close distances. The 3400PDF/LR is a special purpose model, designed to read larger PDF417 codes on shipping labels at distances up to 7 inches. Both versions are available with Keyboard Wedge for compatible PC, TTL, or True RS-232 serial output, or Wand Emulation output.

Applications

The SCANTEAM 3400 scanners are found in a wide variety of applications. Banks, post offices, retail point-of-sale lanes, government document processing offices, utility account payment centers reading monthly invoices, shipping and receiving docks scanning packages, and factories tracking work-in-process.

Features

Choice of Scanning Distance

Full Sunlight Operation

Wide Angle Reading

Rugged Design

Field Upgradable Memory

Benefits

- Long range scanning for general purpose use. High density scanning for higher resolution bar codes.
- Works well in front of bright windows or outdoors.
- Reads extra long bar codes with ease.
- Lasts longer under years of hard use.
- Easy to customize or upgrade. Protects investment costs.

Multiple Connections and Interfaces

The SCANTEAM 3400 scanners connect to retail terminals, personal computers, portable data terminals, and custom machines. Interfaces for non-PDF scanners include Keyboard Wedge, RS-232, OCIA, Apple, IBM 4683, HP, WYSE, and DEC VT, Wand Emulation and Non Decoded laser compatible output. Interfaces for PDF include Keyboard Wedge, TTL, or True RS-232 serial output, or Wand Emulation output.

New Performance Levels

The SCANTEAM 3400 scanners reach new levels of performance.

- **Faster Scanning**
- **Read in Full Sunlight**
- **Wider Angle Reading**
- **Brighter, Sharper Aiming Line**
- **Read Higher Resolution Bar Codes**

Specifications

Performance

	<u>ST3400LR</u>	<u>ST3400HD</u>
Reading Distance		
Low Density Code (20 mil):	0 to 7 in. (17 cm)	0 to 2.8 in. (7 cm)
Medium Density Code (13 mil):	1.5 to 6 in. (4 to 15 cm)	0 to 2.5 in. (6 cm)
High Density Code (4 mil):	-----	.7 to 1.5 in. (2 to 4 cm)
Maximum Resolution		
3400:	7 mil	4 mil
3400PDF:	10 mil PDF417	6 mil PDF417
Reading Width		
Low Density Code (20 mil):	7.0 in. (18 cm)	4.0 in. (10 cm)
Medium Density Code (13 mil):	5.0 in. (12 cm)	4.0 in. (10 cm)
High Density Code (4 mil):	-----	2.0 in. (5 cm)
Minimum Reflective Difference:	37.5%	37.5%
Scan Rate		
Decoded Output:	112 s/s	112 s/s
Non Decoded Output:	50 s/s	50 s/s
Illumination:	660 nm Visible Red LED	
Receiving Device:	High Resolution Linear CCD	

Mechanical/Electrical

Dimensions

Weight:	7.5 oz. without cable
Height:	7.5 in. (190 mm)

Power Requirements

Input Voltage:	5 Vdc \pm 10%
Current Draw:	180 mA @ Vdc \pm 10% Less than 100 μ A in low power mode

Environmental

Temperature

Operating:	-32°F to 122°F (0°C to 50°C)
Storage:	-40°F to 158°F (-40°C to 70°C)
Humidity:	0 to 95%, non condensing
Mechanical Shock:	Functional after 25 drops from 5ft. (1.5 m)
Ambient Illumination:	0-100,000 lux
ESD Protection:	Functional after 15 kV discharge

Agency Conformance:

3400PDF models meet the requirements of FCC Class A, and CE Class A.
All other 3400 models meet FCC Class B and CE Class B.

Interface

Available Interfaces:	Non decoded laser compatible, XT, AT or PS2 compatible keyboard wedge, TTL or True RS-232, Wand Emulation, IBM 4683/4, DEC VT WYSE, HP, Apple MAC.
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Symbologies Supported:	UPC-E0, E1, A; EAN; JAN; ISBN; all versions with supplement suppression; Codes 3 of 9; 128; 1 2 of 5; 2 of 5; Matrix 2 of 5; 11; 93; MSI/Plessey; Codabar; PDF417 available.
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Due to Welch Allyn's continuing product improvement programs, specifications and features herein are subject to change without notice.
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Complies with EMC 89/336/EEC and the 73/23/EEC Low Voltage Directive

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