

3800^r

Retail Linear Imager



Overview

Hand Held Products exclusive imaging technology provides breakthrough performance in the new 3800r linear imager. The 3800r is the most powerful linear imager ever produced. It excels at read range, reading poor quality bar codes, and is extremely durable. These features will make your data acquisition successful, and lower your total cost of ownership.

Many of today's applications benefit from greater reading range. With so many of today's packages too large for easy lifting, operators reach and stretch to read bar codes that are out of range. The 3800r's class-leading 24 inch (61cm) read range on 13 mil bar codes can greatly reduce these serious and costly application problems.

Poor quality bar codes are caused by printing irregularities or damage. They exist in most every application and, because most scanners struggle to read these bar codes, or simply cannot read them, they end up being manually entered. Manual entry increases data collection costs and introduces costly errors that must be traced and corrected.

Part of the 3800r's breakthrough performance is due to a new software digitizer. This design approach has enabled Hand Held Products to apply 30 years of experience in reading bar codes to solving the problem of reading poor quality bar codes. As a result, the 3800r's outstanding performance reading poor quality bar codes eliminates the costs associated with manual entry. Improve your operating efficiency by using the 3800r to read bar codes that others pass by.

The 3800r comes with a 5 year warranty. Shock-absorbing rubber contact surfaces and a Lexan® housing ensure this device will survive 50, 6 foot (1.8 m) drops to concrete. Retail and commercial applications can be tough environments. The 3800r is up to the task because it is built to last.

Features

- **Superior Read Range:** Imaging technology now extends the read range out to 24 inches (61 cm) on the bar codes used in retail applications.
- **Fast and Aggressive Decode:** Even on poorly printed or damaged codes, the 270 scans per second scan rate and software digitizer quickly processes the data and transmits it to your application.
- **Durable:** Built to last, there are no moving parts to wear out. Full impact resistant bumpers and a 5 year warranty make the 3800r one of the toughest scanners on the market.
- **Reads Emerging Codes that will be Part of Tomorrow's Solutions:** supports the EAN-UCC system, including GTIN, EAN/UCC-14, and RSS.
- **Connectivity:** supports all common interfaces: keyboard wedge, TTL RS-232, IBM retail, USB, wand emulation, HHLC, and True RS-232.

3800R Specifications

Performance		Reading Ranges for the 3800r	
Illumination:	630 NM Visible Red LED	<i>Narrow Width</i>	<i>Depth of Field</i>
Receiving Device:	3648 element linear imager	7.5 mil	4 - 14 in. (10 - 36 cm)
Reading Distance:	From 1 in. (2.5 cm) to 24 in. (61 cm) on medium density codes	10 mil (80% UPC)	2 - 18 in. (5 - 46 cm)
Resolution:	5 mil. at 5 in. (13 cm) distance	13 mil (100% UPC)	1 - 24 in. (2.5 - 61 cm)
Reading Width:	7.5 mil code: 7 in. (18 cm) from nose, 6.6 in. (17 cm) wide 13 mil code: 16.5 in. (42 cm) from nose, 10 in. (25 cm) wide	20 mil	1 - 36 in. (2.5 - 91 cm)
Skew Angle:	±65°		
Pitch Angle:	±65°		
Horizontal Velocity:	2 in. (5 cm) per second		
Minimum Symbol Contrast:	20%		
Scan Rate:	Up to 270 scans per second		
Decode Rate:	270 decodes per second		

Mechanical/Electrical			
Length:	5.3 in. (13.5cm)		
Height:	6.2 in. (15.7cm)		
Width:	3.2 in. (8.1cm)		
Weight:	6.5 oz. (184.3g)		
Housing:	UL 94V0 grade		
Power Requirements:	4.5 - 12Vdc at scanner		
Current Draw (Typical):	Input	Scanning	Idle
	5 V	235mA	65mA
	12 V	127mA	45mA

Power Supply	
Noise Rejection:	Maximum 100mV peak to peak, 10 to 100 kHz

Environmental	
Operating Temperature:	+32°F to +122°F (0°C to +50°C)
Storage Temperature:	-40°F to 140°F (-40°C to +60°C)
Humidity:	0 to 95%, non-condensing
Mechanical Shock:	Operational after 50 drops from 6 ft. (1.8 m) to concrete
Ambient Illumination:	0 - 70,000 lux
ESD Protection:	Functional after 15kV discharge
Vibration:	Withstands 5G peak from 22 to 300 Hz
Agency:	FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, UL, cUL listed, TÜV
MTBF:	per MIL-HDBK-217F Ground Benign exceeds 100,000 hours
Symbologies:	Codabar, Code 3 of 9 including PARAF, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, Code 11, Code 93, Code 128, UPC, EAN JAN, China Postal Code, GS1 DataBar. 2005 Sunrise/GTIN compliant, and ISBT 128 Concatenation (requires a paid license).
Interfaces:	All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, wand emulation mode, TTL level Serial Wedge, and IBM 46XX retail terminals.
Warranty:	Five year factory warranty.

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