

## 3800r

### Linear-Imaging Scanner

---

Honeywell's 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 (610 mm) 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 Honeywell 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' (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" (610 mm) 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 GS1 DataBar
- **Connectivity:** Supports all common interfaces: keyboard wedge, TTL RS232, IBM retail, USB, wand emulation, HHLC, and True RS232

# 3800r Technical Specifications

## Operational

Light Source	Visible Red LED 630 nm
Visual Indicators	Green = good read
Host System Interfaces	USB, True RS232, TTL level RS232, Keyboard Wedge, IBM 46xx (RS485), Light Pen (Wand) Emulation, Laser Emulation

## Mechanical

Dimensions (LxWxH)	135 mm x 81 mm x 157 mm (5.3" x 3.2" x 6.2")
Weight	184 g (6.5 oz)

## Electrical

Input Voltage	4.5 - 12 VDC
Operating Power (typical)	1.2 W (235 mA @ 5 V); 1.7 W (145 mA @ 12 V)
Standby Power (typical)	430 mW (86 mA @ 5 V); 780 mW (65 mA @ 12 V)
DC Transformers	Class 2: 5 VDC @ 2.4 A
LED Class	Class 1: IEC60825-1, EN60825-1
EMC	FCC Part 15, ICES-003, EN55022 Class B

## 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% relative humidity, non-condensing
Drop	Designed to withstand 1.8 m (6') drops
Environmental Sealing	IP41
Light Levels	70,000 Lux (6,503 foot-candles)

## Scan Performance

Scan Pattern	Linear Image (3648 pixels)
Scan Speed	270 scans per second
Motion Tolerance	5 cm/s (2 in/s) with 13 mil UPC at optimal focus
Scan Angle	Horizontal: 47°
Print Contrast	20% minimum reflectance difference
Pitch, Skew	65°, 65°
Decode Capabilities	Reads standard 1D and GS1 DataBar symbologies. Visit <a href="http://www.honeywell.com/aicd/symbologies">www.honeywell.com/aicd/symbologies</a> for details.



Typical Performance*	
Narrow Width	Depth of Field
7.5 mil	102 mm - 356 mm (4.0" - 14")
10 mil	51 mm - 457 mm (2.0" - 18")
13 mil	25 mm - 610 mm (1.0" - 24")
20 mil	25 mm - 914 mm (1.0" - 36")
*Resolution: 5 mil (0.127 mm)	
*Performance may be impacted by bar code quality and environmental conditions	

**Honeywell**