4800i

Industrial 2D Imager

The 4800i Industrial 2D Imager is designed to provide unmatched data collection performance and versatility for applications that demand maximum reliability in the harshest working environments.

Powered by Adaptus™ Imaging Technology 5.0, the 4800i delivers high-performance, omni-directional linear and 2D barcode reading plus the versatility of digital image capture. With Adaptus 5.0, enterprises have the ability to capture and process more data than ever before with a single device.

Built specifically for scan-intensive applications requiring a ruggedized solution, the 4800i features our highest drop specification and an IP54 rating to guarantee protection against the penetration of dust and liquid. However, unlike other industrial grade solutions, the 4800i features best-in-class ergonomics – ensuring maximum user comfort and productivity.

powered by
Adaptus®
imaging technology *5.0*

Features

- **Built for Industrial Applications:** Rugged housing is specified to withstand 50 drops from 6.5 feet (2m) and certified to IP54 standards, while still being ergonomic and easy-to-use.

- **High Performance and Versatile Data Collection:** Adaptus Imaging Technology 5.0 provides aggressive, omni-directional reading of all linear and 2D barcodes, plus enables digital image capture.

- **Advanced Illumination Technology:** Enhances performance and ease of use by delivering snappier scanning and minimizing reflection from shiny items.

- **Simplified Device Configuration Through Advanced Software Assets:** Visual Xpress™ software enables device programming and configuration on a host system through an easy-to-use Windows®-based graphical user interface.

- **User Feedback Designed for Extreme Environments:** Adjustable, extra loud "good read" beeper and dual LED indicators ensure reliable & intuitive feedback even in noisy environments.

- **Ease of Connectivity:** All popular interfaces are on board. Visual Express™ software enables easy integration with Unified POS (UPOS) standard and Windows® Embedded for Point of Service (WEPOS) systems.

4800i Specifications

Performance

Illumination LEDs:	617nm ±30nm
Aiming (Green LED Aimer):	526nm ±30nm
Image:	VGA, 752x480. Binary, TIFF, or JPEG output.
Working Range:	

4800iSR	8.3 mil Linear (.021cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil PDF417 (.038cm)	35 mil MaxiCode (.089cm)
Near	3.0 in. (7.6cm)	1.6 in. (4.1cm)	4.0 in. (10.2cm)	2.6 in. (6.6cm)	1.8 in. (4.6cm)	1.5 in. (3.8cm)
Far	7.1 in. (18.0cm)	12.7 in. (32.3cm)	5.7 in. (14.5cm)	8.5 in. (21.6cm)	9.7 in. (24.6cm)	12.5 in. (31.8cm)
4800iSF	**7.5 mil Linear (.019cm)**	**13 mil UPC (.033cm)**	**6.6 mil PDF417 (.017cm)**	**10 mil PDF417 (.025cm)**	**15 mil Data Matrix (.038cm)**	**15 mil QR Code (.038cm)**
Near	2.0 in. (5.1cm)	1.5 in. (3.8cm)	2.3 in. (5.8cm)	2.2 in. (5.6cm)	1.8 in. (4.6cm)	2.2 in. (5.6cm)
Far	6.0 in. (15.2cm)	8.4 in. (21.3cm)	5.5 in. (14.0cm)	7.1 in. (18.0cm)	7.0 in. (17.8cm)	6.7 in. (17.0cm)

Skew Angle:	±40º
Pitch Angle:	±40º
Motion Tolerance:	Standard: 4 in. (10 cm) per second Streaming Presentation™ Mode SF: 20 in. (50 cm) per second on 100% UPC/EAN at the plane of optimum focus

Mechanical/Electrical

Length:	5.3 in. (13.5 cm)
Height:	6.4 in. (16.3 cm)
Width:	3.2 in. (8.1 cm)
Weight:	7.5 oz. (213 g)
Housing:	UL 94V0 grade
Power Requirements:	4.0 - 14Vdc at imager
Current Draw (Typical):	Input Scanning Idle 5 V 382mA 53mA

Power Supply

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

Environmental

Operating Temperature:	14ºF to +122ºF (-10ºC to +50ºC)
Storage Temperature:	-40ºF to 158ºF (-40ºC to +70ºC)
Humidity:	0 to 95%, non-condensing
Sealing:	IP54 (water and dust resistant)
Mechanical Shock:	Operational after 50 drops from 6.5 ft. (2 m) to concrete
Ambient Light:	0 to 100,000 lux (full sunlight)
ESD Protection:	Functional after 100 discharges at 15kV
Vibration:	Withstands 5G peak from 22 to 300 Hz
Agency:	**International:** IEC60825-1 Class 1 LED. **USA:** FCC Part 15 subpart B Class A. UL listed to 60950-1. **Canada:** ICES-003 Class A. cUL listed to CSA C22.2 No. 60950-1-03. **Europe:** CE 2004/108/EC EMC Directive to EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive. **Australia/NZ:** C-Tick mark.
Warranty:	5 years
MTBF:	Per MIL-HDBK-217F Ground Benign exceeds 82,000 hours

Symbologies

2 Dimensional:	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesas, Code 49, and EAN•UCC Composite.
Linear:	Codabar, Code 39 including PARAF, Interleaved 2 of 5, Code 2 of 5, Code 11, Code 93, Code 128, UPC, EAN/JAN, RSS, and ISBT 128 Concatenation (requires a paid license).
Postal (SR/SF Only):	Postnet, Planet Code, British Post, China Post, Canadian Post, Japanese Post, KIX (Netherlands) Post
OCR Fonts (SR/SF Only):	OCR-A, OCR-B