4800 i
Industrial 2D Imager

powered by
Adaptus®
imaging technology *5.0*

Overview

The 4800i Industrial 2D Area Imager, powered by Adaptus™ Imaging Technology 5.0, decodes faster, farther, and future-proofs your investment. This means employees spend less time trying to capture data, and more time creating a productive and cost effective work environment.

Whether the requirement is reading conventional linear bar codes or 2D matrix symbologies, the 4800i can capture them all today. If the application requires signature capture, OCR, or digital photography, the 4800i can do it. The advanced imaging optics software in the 4800i quickly and easily determines the image content and transfers it to the host system.

The 4800i can be used in a wide range of applications from circuit board manufacture to package delivery tracking. In addition, bar codes, images, and signature capture can provide positive proof of delivery. If discrepant material needs to be viewed by a production supplier, images can be captured and quickly transferred for immediate review and resolution, saving time and money.

The 4800i is extra tough. Full shock-absorbing rubber protects the imager from dozens of 6.5 feet (2 meter) drops to concrete. Since many application environments exhibit airborne dust and rain, the 4800i is sealed so these elements will not degrade performance. In addition to an IP54 enclosure specification, the 4800i is backed by an industry leading 5-year warranty.

Features

- **Powered by Adaptus™ Imaging Technology 5.0:** Delivers extraordinary reading performance to enable ease-of-use and reader versatility.

- **Aggressive, omni-directional point-and-shoot reading:** Of linear, PDF417, and full 2D matrix symbols to allow for greater throughput.

- **NEW! Increased Resolution:** Improved image quality for vision-based applications.

- **Rugged Packaging:** Impact absorbent, shock resistant housing withstands fifty 6.5 foot (2 meter) drops, and is sealed to resist dust, water, and contaminants from entering the unit. Backed by an industry leading 5-year warranty.

- **NEW! Increased Motion Tolerance:** Greater stability in scanning; useful in fast-paced and mixed-symbology environments. Ease of use in all types of scanning applications; better hand/motion tolerance for linear codes.

- **Future-Proof Technology:** The versatility of Adaptus Imaging Technology 5.0 serves broad image-based data capture needs; providing a solid solution for future application requirements.

- **NEW! Faster Time to Read (TTR):** Advanced Linear Decoding (ALD) is faster and reads more like a linear unit.

- **NEW! Broader Depth of Field (DOF):** Ability to read wider bar codes quickly and easily, including hard to read bar codes.

HandHeld®
PRODUCTS

4800ⓘ Specifications

Performance

Illumination LEDs:	626nm +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)	1.7 in. (4.3cm)	1.3 in. (3.3cm)	1.7 in. (4.3 cm)
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:	4 in. (10 cm) per second

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:	FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, UL, cUL listed, TÜV, 2005 Sunrise Compliant
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
Interfaces:	All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, TTL level RS-232, TTL level Serial Wedge, USB, wand emulation (primary interface only), HHLC non-decoded laser compatible, True RS-232, IBM 468x, and IBM469x.

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