



JADAK[®]
visionary thinking

4600r

Retail 2D Imager

The 4600r provides high-performance presentation scanning of linear barcodes, making it ideal for fast-paced POS scanning applications. In addition, its ability to read all 2D barcodes, plus capture digital images, enables new applications that increase productivity – all with one device.

The 4600r's unique Streaming Presentation™ Mode feature, combined with its omni-directional reading capability, eliminates the need for operators to stop and hold an item in front of the scanner – simply swipe and go. In addition, the 4600r's advanced illumination system is optimized for high performance applications that require presentation or "fly-by" scanning and the reading of highly reflective items.

The 4600r also delivers excellent reading performance of PDF417 codes commonly used on drivers' licenses in the United States and Canada. This performance enables the 4600r to be used for auto-populating electronic forms (e-forms), used for credit card applications, extended warranties, and returned goods processes. Verification of personal identification also enables age validation for the sale of restricted goods.

In addition to high performance linear and 2D barcode reading, you'll discover a whole new level of versatility not possible with traditional, single-function, hardware solutions. Powered by Adaptus Imaging Technology 5.0, the 4600r takes digital pictures – allowing the user to electronically capture, store, and retrieve signatures, pharmacy prescriptions, and forms of personal identification.

With best-in-class linear and 2D barcode reading, the versatility of image capture, and an extensive set of software tools to extend its functionality, the 4600r protects your investment against changing requirements and enables you to capture and manage more data with one easy-to-use solution.



Features

- **High Performance and Versatility for the POS:** Adaptus Imaging Technology 5.0 provides aggressive, omni-directional reading of all linear and 2D barcodes, plus digital image capture - enables you to collect and manage more data with a single device.
- **Streaming Presentation™ Mode:** The scanner is always on and ready to scan – making presentation and fly-by reading easy and intuitive.
- **Advanced Illumination Technology:** Enhances performance and ease of use by delivering snappier scanning and minimizing reading difficulty from reflective, wrapped and laminated items.
- **Host Download Capability:** Enables the download of configuration changes or new application software directly from the host system to each scanner.
- **Robust Image Processing Software:** Advanced on-board software enables you to crop, rotate, enhance, and compress digital images, ensuring their usability.
- **Presentation Stand Options:**
 - 4600r with Flex-Neck Stand and Integrated Sensor: Automatically puts the scanner in presentation mode when in the stand and in trigger mode when scanner is removed.
 - 4600rp Presentation Scanner: Provides a stable, adjustable base for presentation scanning while also enabling the scanner to be picked-up for trigger use.
- **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.

Scanners are shown in optional ratcheting and flex-neck stands

4600r Specifications

Performance

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

Working Range (Standard):

4600rSR	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)
4600rSF	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: \pm 40°
Pitch Angle: \pm 40°
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

	4600r Scanner	4600rp Scanner
Length:	5.3 in. (13.5 cm)	5.4 in. (13.7 cm)
Height:	6.2 in. (15.7 cm)	8.2 in. (20.8 cm)
Width:	3.2 in. (8.1 cm)	3.5 in. (8.9 cm)
Weight:	6.3 oz. (175.0 g)	14.9 oz. (422.0 g)
Housing:	UL 94V0 grade	
Power Requirements:	4.0 - 14VDC at imager	
Current Draw (Typical RMS)	Input	Scanning
Green LED Aimer:	5 V	354mA
		Idle
		80mA

Power Supply

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

Environmental

Sealing: IP41 (Water and Dust Resistant)
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 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:** CB scheme to IEC60950-1 & 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 **GS Mark:** TÜV GS marked for I.T.E. safety **Mexico:** NOM-NYCE **Korea:** MIC Class A **Australia/NZ:** C-Tick mark
MTBF: per MIL-HDBK-217F Ground Benign exceeds 70,000 hours

Symbologies

2 Dimensional: PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesas, Code 49, and EAN-UCC Composite
Linear: Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, GS1 DataBar, Codablock F, BC412*, and ISBT 128 Concatenation*
**available to licensed users*
Postal (SR/SF Only): Postnet, Planet Code, British 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, USB, TTL level RS-232, TTL level Serial Wedge, and IBM 46XX retail terminals.
Warranty: 5 year warranty

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