

4600r Retail 2D Imager



Overview

From the global leader in image-based data collection comes the 4600r Retail 2D Imager – delivering superior performance, versatility, and value at the point-of-service.

The 4600r provides fast reading of linear bar codes, making it ideal for routine POS scanning applications. In addition, its ability to read all 2D bar codes, 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.

More Than Just a Bar Code Scanner

In addition to high performance linear and 2D bar code 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 any visibly recognizable information, including signatures, pharmacy prescriptions, and forms of personal identification. Replacing traditional paper-based work flow with digital image capture allows the 4600r to deliver the industry's best return on investment.

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.

With best-in-class linear and 2D bar code 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.

The 4600r Advantage

Premium Features

High Performance and Versatile Data Collection: Adaptus Imaging 5.0 provides aggressive, omni-directional reading of all linear and 2D bar codes, 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 System: Enables fast reading of bar codes that are swiped in front of the scanner and high performance on highly reflective items.

Host Download: 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.

Built to Last: No moving parts to wear out, full impact resistant bumpers, and a 5-year warranty make the 4600r one of the toughest scanners on the market.

Standard Features

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.

Aiming Options: Several aiming options available to best fit your application requirements and improve operator productivity.

Common Cabling: Uses same cable solutions as our linear, 2D, and cordless imagers – simplifies ordering and spares pool management.

4600r Specifications

Performance

Illumination LEDs:	617nm ±30nm					
Aiming:	526nm ±30nm					
Green LED Aimer:	VGA, 752x480. Binary, TIFF, or JPEG output.					
Image:	VGA, 752x480. Binary, TIFF, or JPEG output.					
Working Range (Standard):						
4600rSR	8.3 mil Linear (.021cm)	10 mil Linear (.025cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil Data Matrix (.038cm)
Near	3.5 in. (8.9cm)	3.2 in. (8.1cm)	2.1 in. (5.3cm)	4.5 in. (11.4cm)	3.1 in. (7.9cm)	2.3 in. (5.8cm)
Far	7.5 in. (19.1cm)	9.2 in. (23.4cm)	13.1 in. (33.3cm)	6.1 in. (15.5cm)	8.9 in. (22.6cm)	10.1 in. (25.7cm)
4600rSF	5 mil Linear (.013cm)	10 mil Linear (.025cm)	13 mil UPC (.033cm)	6.6 mil PDF417 (.017cm)	10 mil PDF417 (.025cm)	15 mil Data Matrix (.038cm)
Near	3.6 in. (9.1cm)	2.2 in. (5.6cm)	2.0 in. (5.1cm)	2.8 in. (7.1cm)	2.2 in. (5.6cm)	1.8 in. (4.6cm)
Far	4.2 in. (10.7cm)	7.6 in. (19.3cm)	8.8 in. (22.4cm)	5.9 in. (15.0cm)	7.5 in. (19.1cm)	7.4 in. (18.8cm)
Skew Angle:	±40°					
Pitch Angle:	±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

Dimensions

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

Power Supply

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

Environmental

Sealing:	IP41 (Water and Dust Resistant)
Temperature	
Operating:	32°F to 122°F (0°C to 50°C)
Storage:	-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 15kV discharges
Vibration:	Withstands 5G peak from 22 to 300 Hz
Agency:	FCC: Part 15 Class A Canada: ICES-003 Class A CE: CB Scheme EN60950-1, IEC 60825-1, EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3 UL and cUL: UL 60950-1:2003, CSA C22-2 No 60950-1-03 GS-Mark: TUV/GS Mark approval for EN60950-1:2003 and IEC60825-1 Mexico: NOM-NYCE AUS/NZ: C-Tick:AS/NZ 3548
MTBF:	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, RSS, Codablock F, BC412*, and ISBT 128 Concatenation* <i>*available to licensed users</i>
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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