4600r

Area-Imaging Scanner

The 4600r provides high-performance presentation scanning of linear bar codes, making it ideal for fast-paced POS scanning applications. 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 omnidirectional 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 pass through 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 enables age validation on restricted goods.

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 signatures, pharmacy prescriptions, and forms of personal identification.

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.

Scanners are shown in optional ratcheting and flex-neck stands

Features

- **High Performance and Versatility for the POS:** Adaptus Imaging Technology 5.0 provides aggressive, omnidirectional reading of all linear and 2D bar codes, plus digital image capture enabling the collection and managment of more data with a single device

- **Streaming Presentation™ Mode:** The scanner is always on and ready to scan—making presentation and pass through 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 digital images to be cropped, enhanced, rotated and compressed, 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
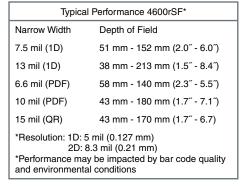
4600r Technical Specifications

Operational

Light Source	Visible Red LED 617 nm ± 30 nm; Aiming: Visible Green LED 526 nm ± 30 nm
Visual Indicators	Green = good read
Host System Interfaces	USB, TTL level RS232, Keyboard Wedge, IBM 46xx (RS485)

Mechanical

Dimensions (LxWxH)	4600r: 135 mm x 81 mm x 157 mm (5.3˝ x 3.2˝ x 6.2˝); 4600rp: 137 mm x 89 mm x 208 mm (5.4˝ x 3.5˝ x 8.2˝)
Weight	175 g (6.3 oz)

Electrical

Input Voltage	4.0 - 14 VDC
Operating Power (typical)	1.8 W (354 mA @ 5 V)
Standby Power (typical)	400 mW (80 mA @ 5 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 A

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	0 to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.8 m (6´) drops
Environmental Sealing	IP41
Light Levels	100,000 Lux (9,290 foot-candles)

Scan Performance

Scan Pattern	Area Image (752 x 480 pixel array)
Motion Tolerance	Standard: 10 cm/s (4 in/s); Streaming Presentation: 50 cm/s (20 in/s) with 13 mil UPC at optimal focus
Scan Angle	Horizontal: 42°, Vertical: 27°
Print Contrast	20% minimum reflectance difference
Pitch, Skew	40°, 40°
Decode Capabilities	Reads standard 1D, PDF, 2D, Postal and OCR symbologies. Visit www.honeywell.com/aidc/symbologies for details.
Warranty	5 year factory warranty

Typical Performance 4600rSF*	
Narrow Width	Depth of Field
7.5 mil (1D)	51 mm - 152 mm (2.0˝ - 6.0˝)
13 mil (1D)	38 mm - 213 mm (1.5˝ - 8.4˝)
6.6 mil (PDF)	58 mm - 140 mm (2.3˝ - 5.5˝)
10 mil (PDF)	43 mm - 180 mm (1.7˝ - 7.1˝)
15 mil (QR)	43 mm - 170 mm (1.7˝ - 6.7)

*Resolution: 1D: 5 mil (0.127 mm)
2D: 8.3 mil (0.21 mm)
*Performance may be impacted by bar code quality and environmental conditions

Typical Performance 4600rSR*	
Narrow Width	Depth of Field
8.3 mil (1D)	76 mm - 180 mm (3.0˝ - 7.1˝)
13 mil (1D)	41 mm - 323 mm (1.6˝ - 12.7˝)
6.6 mil (PDF)	102 mm - 145 mm (4.0˝ - 5.7˝)
10 mil (PDF)	66 mm - 216 mm (2.6˝ - 8.5˝)
15 mil (QR)	66 mm - 211 mm (2.6˝ - 8.3˝)

*Resolution: 1D: 8.3 mil (0.21 mm)
*Performance may be impacted by bar code quality and environmental conditions

For more information:

www.honeywell.com/aidc

4600R-DS Rev E 01/09

Honeywell