

## 4600g

### General Purpose 2D Imager

The 4600g combines the right blend of performance and durability for a wide variety of applications that benefit from the power and versatility of a 2D imaging solution.

Powered by Adaptus® Imaging Technology 5.0, the 4600g delivers high-performance, omni-directional linear and 2D barcode reading plus the versatility of digital image capture. With Adaptus 5.0, users can scan barcodes, take digital pictures, paperlessly capture signatures and more - enabling them to be more productive and reducing your need to invest in multiple devices.

Featuring a solid-state design and backed by a 5-year warranty the 4600g is built to deliver years of reliable, hassle-free use while a lightweight, ergonomic design ensures comfort and ease of use for your operators.



### Features

- **General Purpose Reader:** Single device covering the broadest range of customer applications.
- **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.
- **Durable and Reliable:** Built to last with no moving parts to wear out. Full impact resistant bumpers and a 5 year warranty make the 4600g one of the toughest scanners on the market.
- **Ease of Connectivity:** All popular interfaces are on board. Includes Visual Express™ software for ease-of-integration. Supports Unified POS standard and Windows® Embedded for Point of Service, for retail connectivity.

#### Specialization Options

- **Disinfectant-Ready Housing:** Optimal for environments where scanner must be cleaned frequently with harsh chemicals. (See reverse for listing of approved cleaners)

# 4600g Specifications

## Performance

<b>Illumination LEDs:</b>	617nm ±30nm
<b>Aiming:</b>	526nm ±30nm
<b>Image:</b>	VGA, 752x480. Binary, TIFF, or JPEG output.
<b>Working Range:</b>	

4600gSR	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)
<b>Near</b>	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)
<b>Far</b>	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)
4600gSF	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)
<b>Near</b>	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)
<b>Far</b>	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)
4600gHD	5 mil Code 39 (.013cm)	6 mil Code 39 (.015cm)	13 mil 100% UPC-EAN (.033cm)	6.6 mil PDF417 (.017cm)	6.7 mil Data Matrix (.017cm)	6.7 mil QR Code (.017cm)
<b>Near</b>	1.9 in. (4.8cm)	1.7 in. (4.3cm)	1.6 in. (4.1cm)	1.6 in. (4.1cm)	2.4 in. (6.1cm)	2.3 in. (5.8cm)
<b>Far</b>	3.8 in. (9.7cm)	4.2 in. (10.7cm)	6.2 in. (15.7cm)	4.5 in. (11.4cm)	3.5 in. (8.9cm)	3.4 in. (8.6cm)

<b>Skew Angle:</b>	±40°
<b>Pitch Angle:</b>	±40°
<b>Motion Tolerance:</b>	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

<b>Length:</b>	5.3 in. (13.5 cm)						
<b>Height:</b>	6.2 in. (15.7 cm)						
<b>Width:</b>	3.2 in. (8.1 cm)						
<b>Weight:</b>	6.5 oz. (184.3 g)						
<b>Housing:</b>	UL 94V0 grade						
<b>Power Requirements:</b>	4.0 - 14VDC at imager						
<b>Current Draw (Typical)</b>	<table> <tr> <th>Input</th> <th>Scanning</th> <th>Idle</th> </tr> <tr> <td>5 V</td> <td>382mA</td> <td>53mA</td> </tr> </table>	Input	Scanning	Idle	5 V	382mA	53mA
Input	Scanning	Idle					
5 V	382mA	53mA					

## Power Supply

<b>Noise Rejection:</b>	Maximum 100mV peak to peak, 10 to 100 kHz
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## Environmental

<b>Sealing:</b>	IP41 (Water and Dust Resistant)
<b>Operating Temperature:</b>	32°F to +122°F (0°C to +50°C)
<b>Storage Temperature:</b>	-40°F to 158°F (-40°C to +70°C)
<b>Humidity:</b>	0 to 95%, non-condensing
<b>Mechanical Shock:</b>	Operational after 50 drops from 6 ft. (1.8 m) to concrete
<b>Ambient Light:</b>	0 to 100,000 lux (full sunlight)
<b>ESD Protection:</b>	Functional after 100 discharges at 15kV
<b>Vibration:</b>	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:** GS marked for I.T.E. safety. **Australia/NZ:** C-Tick mark.

**Laser Classification:** **Laser Aimer Model only:** Class 2 Laser IEC60825-1. Complies with 21 CFR 1040.10 and 1040.11 with Laser Notice No. 50. 1mW max output, 650 nm

**MTBF:** per MIL-HDBK-217F Ground Benign exceeds 70,000 hours

**Cleaners Approved for Use with Disinfectant-Ready Housing:** Sani-Cloth® HB, Sani-Cloth® Plus, CaviWipes™, Virex® 256, 409® Glass and Surface Cleaner, Windex® Blue, Clorox® Bleach (100%)

## Symbologies

<b>2 Dimensional:</b>	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesas, Code 49, and EAN•UCC Composite
<b>Linear:</b>	Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, RSS, Codablock F, BC412*, and ISBT 128 Concatenation* *available to licensed users
<b>Postal (SR/SF Only):</b>	Postnet, Planet Code, British Post, Canadian Post, Japanese Post, KIX (Netherlands) Post
<b>OCR Fonts (SR/SF Only):</b>	OCR-A, OCR-B
<b>Interfaces:</b>	All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, wand emulation (primary interface only) mode, TTL level Serial Wedge, and IBM 46XX retail terminals.
<b>Warranty:</b>	5 years

## Automation and Control Solutions

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# Honeywell

## 4820

### Cordless 2D Imager

The 4820 Cordless 2D Imager is designed to provide the unmatched data collection versatility of 2D imaging for a wide variety of light-industrial applications, with the convenience and freedom of Bluetooth wireless connectivity.

Powered by Adaptus® Imaging Technology 5.0, the 4820 delivers high-performance omni-directional linear, stacked and 2D barcode reading, plus the versatility of digital image capture capability. With Adaptus 5.0, enterprises have the ability to capture and process more data than ever before with a single device.

Designed for scan-intensive applications that require freedom of movement for the operator, the 4820 enables use up to 33 ft. (10m) away from the base, and eliminates the hazards or hassles that can be presented by cables in fast-paced environments.

Built to ensure longevity and reliability in light-industrial applications, the 4820 features a solid-state design and a 6 ft. (1.8m) drop specification, backed by a 3-year warranty - all without sacrificing comfortable user ergonomics.



### Features

- **Built for Light Industrial Applications:** Solid state, no-moving-parts design withstands over 50 drops to concrete from 6 feet (1.8m), 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.
  - **Wireless Connectivity:** Bluetooth v1.2 radio enables movement up to 33 feet (10m) from the base, and reduces interference with other wireless systems. Up to 7 imagers can communicate to 1 base, reducing the total cost of ownership.
  - **Advanced Illumination Technology:** Enhances performance and ease of use by delivering snappier scanning and minimizing reflection from shiny items.
  - **Long-Lasting Lithium-Ion Battery:** Powers up to 50,000 scans per full charge ensuring maximum uptime.
  - **Simplified Device Configuration:** Visual Xpress™ software enables device programming and configuration on a host system through an easy-to-use Windows®-based graphical user interface.
- #### Specialization Options
- **FIPS 140-2 Certified Encryption:** Federal Information Processing Standards (FIPS) certified for wireless data transmission, meeting advanced US Government security requirements, and providing enhanced security in any application involving sensitive data.
  - **Bluetooth Interface Module Option:** Enables simple and reliable wireless connectivity to the host system without the need for a base – ideal for uses where space is limited.
  - **Disinfectant-Ready Housing:** Optimal for environments where scanner must be cleaned frequently with harsh chemicals. (See reverse for listing of approved cleaners)

# 4820 Specifications

## Performance

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

## Working Range:

	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)
<b>4820SR</b>						
<b>Near</b>	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)
<b>Far</b>	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)
<b>4820SF</b>						
	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)
<b>Near</b>	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)
<b>Far</b>	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)

<b>Pitch/Skew Angle:</b>	±40°
<b>Motion Tolerance:</b>	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

## Wireless Technology

<b>Frequency:</b>	2.4 to 2.4835 GHz (ISM Band) Frequency-Hopping Bluetooth v. 1.2
<b>Range:</b>	33 ft. (10 m) typical
<b>Data Rates:</b>	720 KBps
<b>Security:</b>	FIPS 140-2 (Certification Pending)

## Battery (Lithium Ion)

<b>Capacity:</b>	1,800 mAh (minimum)
<b>Number of Scans:</b>	50,000
<b>Expected Hours of Operation:</b>	16 hours
<b>Charge Time with 9 VDC External Power Supply:</b>	4 hours for full charge from full discharge

## Symbologies

<b>2 Dimensional:</b>	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesas, Code 49, and EAN+UCC Composite
<b>Linear:</b>	Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, RSS, Codablock, and ISBT 128 Concatenation* *requires a paid license
<b>Postal:</b>	Postnet, Planet Code, British Post, Canadian Post, Japanese Post, KIX (Netherlands Post)
<b>OCR Fonts:</b>	OCR-A, OCR-B
<b>Interfaces:</b>	Keyboard wedge, USB, TTL level RS-232, wand emulation, TTL level Serial Wedge, and IBM 46XX retail terminals.

## Mechanical/Electrical

	4820 Scanner	2020 Base
<b>Weight:</b>	9 oz. (255 g)	8.8 oz. (250 g) w/o cable
<b>Height:</b>	6.5 in. (16.5 cm)	3.1 in. (7.9 cm)
<b>Input Voltage:</b>	3.7 V internal battery	4.7 to 14 VDC (host) 8.5 to 9.5 VDC external power supply
<b>Current Draw:</b>		125mA max @ 5V (no charging) 100 mA max @ 12V (no charging) 825mA max @ 12V (charging)

## Environmental

	4820 Scanner	2020 Base
<b>Sealing:</b>	IP 41 (Water and Dust Resistant)	
<b>Operating Temperature:</b>	32° to 122°F (0° to 50°C)	32° to 122°F (0° to 50°C)
<b>Storage Temperature:</b>	-40° to 140°F (-40° to 60°C)	-40° to 140°F (-40° to 60°C)
<b>Humidity:</b>	0 to 95%, non condensing	up to 95%, non condensing
<b>Mechanical Shock:</b>	Functional after 50 drops from 6 ft. (1.8 m)	Functional after 50 drops from 3.3 ft. (1 m)
<b>Agency:</b>	<b>International:</b> CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED (4820). Bluetooth Qualified Design listed. <b>USA:</b> FCC Part 15 subpart C. UL listed to 60950-1. <b>Canada:</b> RSS-210. cUL listed to CSA C22.2 No. 60950-1-03. <b>Europe:</b> CE 1999/5/EC R&TTE Directive to EN55022, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive (2020). <b>GS Mark:</b> GS marked for I.T.E. safety. <b>Mexico:</b> NOM-NYCE, COFETEL. <b>Australia/NZ:</b> C-Tick mark.	
<b>Warranty:</b>	3 years (Note: battery warranty is 1 year)	
<b>Cleaners Approved for Use with Disinfectant-Ready Housing:</b>	Sani-Cloth® HB, Sani-Cloth® Plus, CaviWipes™, Virex® 256, 409® Glass and Surface Cleaner, Windex® Blue, Clorox® Bleach (100%)	

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The 4820 Cordless 2D Imager has no affiliation with Honeywell branded batteries/chargers, which are exclusively distributed by Global Technology Systems pursuant to a license agreement.

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