

XENON EXTREME PERFORMANCE (XP) 1952g

Cordless Area-Imaging Scanner

Delivering excellent customer service is your mission, and providing lasting impressions for your loyal customers driven by fast, accurate, and friendly checkout experiences is critical.

Empower your cashiers to deliver on your mission and commitment to provide excellent customer service experiences with the Honeywell Xenon™ Extreme Performance (XP) series. The Xenon XP 1952g scanner offers superior scan performance, easily capturing even the most difficult-to-read or damaged barcodes.

Engineered to 50 drops at 1.8 m (6 ft) and 2,000 tumbles at 0.5 m (1.6 ft), and with an IP52 ingress rating for water and dust, the Xenon XP 1952g scanner delivers class-leading durability. This significantly reduces scanner downtime and service costs, leading to a longer lifecycle and a lower total cost of ownership.

Freedom of movement around POS terminals, conveyors, and customers is a continued challenge for today's retail associates. As more technology is packed into the streamlined modern-day POS station, free space is at a premium. The Xenon XP 1952g cordless scanner ensures that your associates' attention is kept on maximizing customer experience by eliminating wasted time managing cables.

Designed for stores that need high-accuracy scanning, even from a distance, the Xenon XP 1952g scanner reduces strain on the associate – decreasing the need to bend to reach barcodes on the bottom shelf or bottom of the basket.



The Xenon XP 1952g scanner is purpose-built for retailers who know the costs of long checkout times: lost sales due to abandoned carts, and decreased customer loyalty and revenue over time.

DISINFECTANT-READY HOUSINGS – NEW!



Select models now available with disinfectant-ready housings. These models can be cleaned regularly with a wide variety of cleaning solutions without damaging your product.

FEATURES AND BENEFITS



Superior scanning performance, even on damaged and poor-quality barcodes, eliminates wasted seconds from every transaction.



Engineered to withstand 2,000 0.5 m (1.6 ft) tumbles and 50 1.8 m (6 ft) drops, the scanner brings class-leading durability and reliability to any environment.



The scanner is optimized for scanning both digital codes off customer smartphones and merchandise codes by the cashier at the register.



Honeywell Operational Intelligence software delivers on-demand scan insights, enabling higher employee productivity and throughput.



The Honeywell Scanner Management Utility (SMU) creates a holistic solution that automates how you deploy and update the scanners in your environment.

Honeywell

Xenon Extreme Performance (XP) 1952g Technical Specifications

WIRELESS

Radio/Range: 2.4GHz Bluetooth radio v4.2 with Adaptive Frequency Hopping. Class 1: 100m line of sight (default), programmable to Class 2: 10m line of sight

Power Options:

Battery: 2400 mAh Li-ion minimum

Number of Scans: Up to 50,000 scans per charge

Expected Duration of Operation: 14 hours

Expected Charge Time: 4.5 hours

User Indicators: Good Decode LEDs, Rear View LEDs, Beeper (adjustable tone and volume), Vibration (adjustable), Charge Status Indicator

MECHANICAL/ELECTRICAL

Dimensions (L x W x H):

Scanner: 99 mm x 64 mm x 165 mm (3.9 in x 2.5 in x 6.5 in)

Presentation Base: 132 mm x 101 mm x 81 mm (5.2 in x 4.0 in x 3.2 in)

Desktop/Wall Mount Base: 231 mm x 89 mm x 83 mm (9.1 in x 3.5 in x 3.3 in)

Weight:

Scanner: 220 g (7.8 oz)

Presentation Base: 179 g (6.3 oz)

Desktop/Wall Mount Base: 260 g (9.2 oz)

Operating Power (Charging) Bases: 2.5 W (500 mA @ 5V DC)

Non-Charging Power (Bases): 0.75 W (150 mA @ 5V DC)

Host System Interfaces : USB, Keyboard Wedge, RS-232, IBM 46xx (RS485)

ENVIRONMENTAL

Operating Temperature:

Scanner: 0°C to 50°C (32°F to 122°F)

Bases:

Charging: 5°C to 40°C (41°F to 104°F)

Non-Charging: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Electrostatic Discharge (ESD) (Scanners and Cradles): ±8 kV indirect coupling plane, ±15 kV direct air

Humidity: 0 to 95% relative humidity, non-condensing

Tumble Spec: 2,000 0.5 m (1.6 ft) tumbles (impacts)

Drop: Engineered to withstand 50 1.8 m (6 ft) drops to concrete

Environmental Sealing (Scanner): IP52

Light Levels: 0 to 100,000 lux (9,290 foot-candles)

SCAN PERFORMANCE

Scan Pattern: Area Image (1240 x 800 pixel array)

Motion Tolerance: Up to 400 cm/s (157 in/s) for 13 mil UPC at optimal focus

Scan Angle:

HD: Horizontal: 48°; Vertical: 30°

SR: Horizontal: 48°; Vertical: 30°

Print Contrast: 20% minimum reflectance difference

Roll, Pitch, Skew: ±360°, ±45°, ±65°

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DOT Code, and OCR symbologies (Note: Decode capabilities dependent on configuration.)

Warranty: Three-year factory warranty (Note: Battery Pack warranty is one year.)

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)
NARROW WIDTH		
3 mil Code 128	56 mm – 132 mm (2.2 in – 5.2 in)	27 mm – 131 mm (1.1 in – 5.1 in)
5 mil Code 39	28 mm – 242 mm (1.1 in – 9.5 in)	14 mm – 219 mm (0.6 in – 8.6 in)
10 mil Code 39	0 mm – 443 mm (0 in – 17.4 in)	0 mm – 389 mm (0 in – 15.3 in)
13 mil UPC	0 mm – 490 mm (0 in – 19.3 in)	0 mm – 368 mm (0 in – 14.5 in)
15 mil Code 128	0 mm – 543 mm (0 in – 21.4 in)	0 mm – 417 mm (0 in – 16.4 in)
20 mil Code 39	4 mm – 822 mm (0.1 in – 32.4 in)	6 mm – 604 mm (0.2 in – 23.8 in)
5 mil PDF417	54 mm – 160 mm (2.1 in – 6.3 in)	30 mm – 155 mm (1.2 in – 6.1 in)
6.7 mil PDF417	34 mm – 220 mm (1.4 in – 8.7 in)	17 mm – 211 mm (0.7 in – 8.3 in)
7.5 mil DM**	49 mm – 172 mm (1.9 in – 6.8 in)	27 mm – 160 mm (1.0 in – 6.3 in)
10 mil DM**	29 mm – 245 mm (1.1 in – 9.7 in)	12 mm – 211 mm (0.5 in – 8.3 in)
20 mil QR	0 mm – 438 mm (0 in – 17.2 in)	0 mm – 331 mm (0 in – 13.0 in)

* Performance may be impacted by barcode quality and environmental conditions.

** Data Matrix (DM)

For more information

www.honeywellaidc.com

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XENON EXTREME PERFORMANCE (XP) 1952g-bf

Battery-Free Wireless Area-Imager Scanner

The Honeywell Xenon™ Extreme Performance (XP) 1952g-bf area-imager scanner incorporates the latest in battery-free technology, offering the freedom of Bluetooth® low-energy wireless technology without the maintenance hassles or long recharge time associated with traditional batteries.



Like all other Xenon XP series scanners, the 1952g-bf scanner delivers aggressive barcode scanning performance – even on poor-quality or damaged barcodes. An integrated Bluetooth low-energy Class 2 radio gives users complete freedom of movement up to 10 meters (33 feet) from the base. For added convenience, a paging system on the base activates auditory signals that help to locate a misplaced scanner.

The scanner runs on supercapacitors versus a battery and is capable of achieving a full charge in less than two minutes via the USB port (under 30 seconds when using a powered USB port or external wall adapter). The Xenon XP 1952g-bf scanner typically provides at least 450 scans of UPC/EAN codes without recharging. This makes the scanner ideal for moderate scanning applications such as self checkout, as the secondary scanner to a bioptic scanner, or in support of shipping and receiving functions at warehouses. With no battery, a common maintenance hassle is removed, and the scanner is lighter and more environmentally friendly.

The Xenon XP 1952g-bf wireless scanner offers fast, accurate barcode scanning from up to 10 meters (33 feet) from the base – without the recharge time, expense, and environmental impact of a battery.

DISINFECTANT-READY HOUSINGS – NEW!



Select models now available with disinfectant-ready housings. These models can be cleaned regularly with a wide variety of cleaning solutions without damaging your product.

FEATURES AND BENEFITS



When fully charged, the scanner can typically scan over 450 UPC/EAN codes without the need for recharging – more than enough to check out 25 customers.



Supercapacitors hold their charge for hours when fully charged. So operators who forget to place their scanner in the charger prior to break won't impact operations upon return.



Two independently configurable recharge alerts remind the operator to place the scanner back into the base for charging, ensuring continuous operation.



The Xenon XP 1952g-bf scanner is fully charged in under two minutes with a simple USB connection, and under 30 seconds when a powered USB or external power supply is used.



When the scanner is placed in the base, the ready-to-scan LED typically flashes in less than 20 seconds to notify the operator that there is sufficient power to support over 100 scans.

Honeywell

Xenon XP 1952g-bf Technical Specifications

BATTERY-FREE*

User Indicators: Good Decode LEDs, Rear View LEDs, Beeper (adjustable tone and volume), Vibration (optional and adjustable), Charge Status Indicator

Number of Scans (based on default settings):

Fully Charged: Typically more than 450 scans

Ready-to-Go Notification: At least 25 scans (@1 scan/sec)

First Recharge Alert (30%): Typically occurs after 300 scans $\pm 10\%$

Second Recharge Alert (10%): Typically occurs after 400 scans $\pm 10\%$

Expected Full Charge Time (completely discharged):

Standard USB: Typically under 120 seconds

Powered USB/External Wall Power Adapter: Typically under 30 seconds

Expected Ready-to-Go Charge Time:

Standard USB: Typically under 25 seconds

Powered USB/External Wall Power Adapter: Typically under 15 seconds

Use Time (5 scans/transaction, 1 min/transaction):

Fully Charged: Typically 25 minutes of usage

Ready-to-Go Notification: Typically 5 minutes of usage left

First Recharge Alert (flashing yellow LED): Typically 10 minutes of usage left

Second Recharge Alert (flashing red LED): Typically 5 minutes of usage left

Charge Cycles (from completely discharged): 500,000

DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)
NARROW WIDTH		
3 mil Code 128	56 mm - 132 mm (2.2 in - 5.2 in)	27 mm - 131 mm (1.1 in - 5.1 in)
5 mil Code 39	28 mm - 242 mm (1.1 in - 9.5 in)	14 mm - 219 mm (0.6 in - 8.6 in)
10 mil Code 39	0 mm - 443 mm (0 in - 17.4 in)	0 mm - 389 mm (0 in - 15.3 in)
13 mil UPC	0 mm - 490 mm (0 in - 19.3 in)	0 mm - 368 mm (0 in - 14.5 in)
15 mil Code 128	0 mm - 543 mm (0 in - 21.4 in)	0 mm - 417 mm (0 in - 16.4 in)
20 mil Code 39	4 mm - 822 mm (0.1 in - 32.4 in)	6 mm - 604 mm (0.2 in - 23.8 in)
5 mil PDF417	54 mm - 160 mm (2.1 in - 6.3 in)	30 mm - 155 mm (1.2 in - 6.1 in)
6.7 mil PDF417	34 mm - 220 mm (1.4 in - 8.7 in)	17 mm - 211 mm (0.7 in - 8.3 in)
7.5 mil DM**	49 mm - 172 mm (1.9 in - 6.8 in)	27 mm - 160 mm (1.0 in - 6.3 in)
10 mil DM**	29 mm - 245 mm (1.1 in - 9.7 in)	12 mm - 211 mm (0.5 in - 8.3 in)
20 mil QR	0 mm - 438 mm (0 in - 17.2 in)	0 mm - 331 mm (0 in - 13.0 in)

* Performance may be impacted by barcode quality and environmental conditions.

** Data Matrix (DM)

WIRELESS

Radio/Range: 2.4 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v4.2; Class 2: 10 m (33 ft) line of sight

ENVIRONMENTAL

Scanner:

Operating Temperature: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Humidity: 0 to 95% relative humidity, non-condensing

Drop: Designed to withstand 50 1.8 m (6 ft) drops to concrete

Environmental Sealing: IP52

Light Levels: 0 to 100,000 lux (9,290 ft-candles)

Electrostatic Discharge (ESD) (Scanners and Cradles): ± 8 kV indirect coupling plane, ± 15 kV direct air

Charge and Communication Base:

Operating Temperature:

Charging: 0°C to 50°C (32°F to 122°F)

Non-Charging: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Humidity: 0 to 95% relative humidity, non-condensing

Drop: Designed to withstand 50 1 m (3.3 ft) drops to concrete

Environmental Sealing: IP41

Light Levels: N/A

MECHANICAL/ELECTRICAL

Scanner:

Dimensions: 104 mm x 71 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)

Weight: 195 g (6.9 oz)

Operating Power: N/A

Non-Charging Power: N/A

Host System Interface: N/A

Charge and Communication Base:

Dimensions: 132 mm x 102 mm x 81 mm (5.2 in x 4 in x 3.2 in)

Weight: 180 g (6.3 oz)

Operating Power: 5W (1A @ 5V)

Non-Charging Power: 0.5W (0.1A @ 5V)

Host System Interface: USB, Keyboard Wedge, RS-232, IBM 46xx (RS485)

SCAN PERFORMANCE

Scan Pattern: Area Image (1280 x 800 pixel array)

Motion Tolerance: Up to 400 cm/s (157 in/s) for 13 mil UPC at optimal focus

Scan Angle:

HD: Horizontal: 48°; Vertical: 30°

SR: Horizontal: 48°; Vertical: 30°

Symbol Contrast: 20% minimum reflectance difference

Roll, Pitch, Skew: $\pm 360^\circ$, $\pm 45^\circ$, $\pm 65^\circ$

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DotCode, and OCR symbologies

(Note: Decode capabilities dependent on configuration.)

Warranty:

Scanner: Three-year factory warranty

Supercapacitor: Five-year factory warranty

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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Honeywell Safety and Productivity Solutions

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* All scan performance and time usage is based on 100% UPC/EAN Grade A barcode at room temperature. Performance will vary depending on quality of barcode, symbology scanned, environmental conditions, code length, etc.

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XENON EXTREME PERFORMANCE (XP) 1952h

Cordless Area-Imaging Scanner

The most successful and discerning healthcare providers choose Xenon™ scanners to ensure they are delivering more meaningful patient interactions and clinical outcomes.

The Xenon Extreme Performance (XP) 1952h scanner builds on the strong foundation of earlier Xenon healthcare scanners, continuing the tradition of industry-leading performance and reliability.

The Xenon XP 1952h healthcare scanner ensures that healthcare professionals remain focused on the patient, making the process of patient ID verification quick and easy. Incorporating Honeywell's renowned imaging technology, the Xenon XP 1952h scanner offers superior scan performance, easily capturing even the most difficult-to-read or damaged codes. This helps to eliminate wasted movements and lost time, improving healthcare worker productivity and throughput.

Freedom of movement around patients, family members, and expensive equipment – particularly in congested patient rooms or ICUs – is a continued challenge for today's clinician. As more and more technology is packed into the modern-day patient room, free space comes at a premium. The Xenon XP 1952h cordless scanner ensures nurses' focus is on patient safety and comfort.

Engineered to 50 drops at 1.8 m (6 ft) and 2,000 tumbles at 0.5 m (1.6 ft), the Xenon XP 1952h scanner's class-leading reliability reduces scanner downtime and service costs, leading to a longer lifecycle and lower total cost of ownership.



The Xenon XP 1952h scanner delivers premium performance and class-leading durability for increased clinician productivity and maximum uptime – improving patient outcomes and lowering TCO.

FEATURES AND BENEFITS



Superior 1D and 2D scanning performance, even on damaged and poor-quality barcodes, eliminates wasted seconds from any scan.



The disinfectant-ready plastic housing protects your investment with a durable construction engineered to resist the harmful effects of harsh chemicals.



Multiple patient comfort modes are available to ensure patient comfort while maintaining clinician productivity: Patient Do-Not-Disturb, Vibration, and Scan Lamp.



Honeywell Operational Intelligence software delivers on-demand scan insights, enabling higher healthcare worker productivity and throughput.



The Honeywell Scanner Management Utility (SMU) creates a holistic solution that automates how you deploy and update the scanners in your environment.

Honeywell

Xenon Extreme Performance (XP) 1952h Technical Specifications

WIRELESS

Radio/Range: 2.4 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v4.2; Class 2: 10 m (33 ft) line of sight

Power Options:

Battery: 2400 mAh Li-ion minimum

Number of Scans: Up to 50,000 scans per charge

Expected Duration of Operation: 14 hours

Expected Charge Time: 4.5 hours

User Indicators: Good Decode LEDs, Rear View LEDs, Beeper (adjustable tone and volume), Vibration (adjustable), Charge Status Indicator

MECHANICAL/ELECTRICAL

Dimensions (L x W x H):

Scanner: 99 mm x 64 mm x 165 mm (3.9 in x 2.5 in x 6.5 in)

Presentation Base: 132 mm x 101 mm x 81 mm (5.2 in x 4.0 in x 3.2 in)

Desktop/Wall Mount Base: 231 mm x 89 mm x 83 mm (9.1 in x 3.5 in x 3.3 in)

Weight:

Scanner: 220 g (7.8 oz)

Presentation Base: 179 g (6.3 oz)

Desktop/Wall Mount Base: 260 g (9.2 oz)

Operating Power (Charging) Bases: 2.5 W (500 mA @ 5V DC)

Non-Charging Power (Bases): 0.75 W (150 mA @ 5V DC)

Host System Interfaces : USB, Keyboard Wedge, RS-232, IBM 46xx (RS485)

ENVIRONMENTAL

Operating Temperature:

Scanner: 0°C to 50°C (32°F to 122°F)

Bases:

Charging: 5°C to 40°C (41°F to 104°F)

Non-Charging: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Electrostatic Discharge (ESD) (Scanners and Cradles): ±8 kV indirect coupling plane, ±15 kV direct air

Humidity: 0 to 95% relative humidity, non-condensing

Turn Spec: 2,000 0.5 m (1.6 ft) tumbles (impacts)

Drop: Engineered to withstand 50 1.8 m (6 ft) drops to concrete

Environmental Sealing (Scanner): IP41

Light Levels: 0 to 100,000 lux (9,290 foot-candles)

SCAN PERFORMANCE

Scan Pattern: Area Image (1240 x 800 pixel array)

Motion Tolerance: Up to 400 cm/s (157 in/s) for 13 mil UPC at optimal focus

Scan Angle:

HD: Horizontal: 48°; Vertical: 30°

SR: Horizontal: 48°; Vertical: 30°

Print Contrast: 20% minimum reflectance difference

Roll, Pitch, Skew: ±360°, ±45°, ±65°

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DOT Code, and OCR symbologies

(Note: Decode capabilities dependent on configuration.)

Warranty: Three-year factory warranty (Note: Battery Pack warranty is one year.)

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)
NARROW WIDTH		
3 mil Code 128	56 mm – 132 mm (2.2 in – 5.2 in)	27 mm – 131 mm (1.1 in – 5.1 in)
5 mil Code 39	28 mm – 242 mm (1.1 in – 9.5 in)	14 mm – 219 mm (0.6 in – 8.6 in)
10 mil Code 39	0 mm – 443 mm (0 in – 17.4 in)	0 mm – 389 mm (0 in – 15.3 in)
13 mil UPC	0 mm – 490 mm (0 in – 19.3 in)	0 mm – 368 mm (0 in – 14.5 in)
15 mil Code 128	0 mm – 543 mm (0 in – 21.4 in)	0 mm – 417 mm (0 in – 16.4 in)
20 mil Code 39	4 mm – 822 mm (0.1 in – 32.4 in)	6 mm – 604 mm (0.2 in – 23.8 in)
5 mil PDF417	54 mm – 160 mm (2.1 in – 6.3 in)	30 mm – 155 mm (1.2 in – 6.1 in)
6.7 mil PDF417	34 mm – 220 mm (1.4 in – 8.7 in)	17 mm – 211 mm (0.7 in – 8.3 in)
7.5 mil DM**	49 mm – 172 mm (1.9 in – 6.8 in)	27 mm – 160 mm (1.0 in – 6.3 in)
10 mil DM**	29 mm – 245 mm (1.1 in – 9.7 in)	12 mm – 211 mm (0.5 in – 8.3 in)
20 mil QR	0 mm – 438 mm (0 in – 17.2 in)	0 mm – 331 mm (0 in – 13.0 in)

* Performance may be impacted by barcode quality and environmental conditions.

** Data Matrix (DM)

For more information

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XENON EXTREME PERFORMANCE (XP) 1952h-bf

Battery-Free Wireless Area-Imaging Scanner for Healthcare

The Honeywell Xenon™ Extreme Performance (XP) 1952h-bf area-imaging scanner incorporates the latest in battery-free technology, offering the freedom of Bluetooth® wireless technology without the maintenance hassles or long recharge time associated with traditional batteries.



Traditional cordless scanners are powered by batteries, requiring long recharging times and battery maintenance. The Xenon XP 1952h-bf scanner runs on supercapacitors, making it **capable of achieving a full charge in under 60 seconds** when using a powered USB port or external wall adapter. The Xenon XP 1952h-bf scanner typically provides at least 450 scans without recharging. This makes the scanner ideal for scanning applications at the bedside such as medicines administration or specimen collection. With its quick charge feature, you'll minimize problems associated with dead batteries like manual overrides and unnecessary IT support calls. And with no battery, a common maintenance hassle is removed, an ongoing expense is eliminated, and the scanner is lighter and more environmentally friendly.

The Xenon XP 1952h-bf wireless scanner offers fast, accurate barcode scanning without the long recharge time, expense, and environmental impact of a battery.

In addition to the Xenon scanner's legendary reliability, the Xenon XP 1952h-bf scanner delivers aggressive barcode scanning performance – even on poor-quality or damaged barcodes – which also helps to minimize manual overrides. An integrated Bluetooth radio gives clinicians complete freedom of movement around patients, equipment, family members, and patient and family belongings. The Xenon XP 1952h-bf scanner is ready for prolonged hospital use, with a disinfectant-ready housing that resists the harmful effects of harsh cleaning agents commonly used in healthcare environments and minimizes the spread of infectious diseases.

FEATURES AND BENEFITS



When fully charged, the scanner can typically scan over 450 UPC/EAN codes without the need for recharging. The scanner is useable in less than 20 seconds.



Supercapacitors hold their charge for hours when fully charged. So clinicians who forget to place their scanner in the charger prior to break won't impact operations upon return.



Two independently configurable recharge alerts remind clinicians to place the scanner back into the base for charging, ensuring continuous operation.



The Xenon XP 1952h-bf scanner is fully charged in under 60 seconds when a powered USB or external power supply is used and under two minutes with a simple USB connection.



When the scanner is placed in the base, the ready-to-scan LED typically flashes in less than 20 seconds to notify the clinician that there is sufficient power to support over 100 scans.

XENON XP 1952h-bf Technical Specifications

BATTERY-FREE

User Indicators: Good Decode LEDs, Rear View LEDs, Beeper (adjustable tone and volume), Vibration (optional and adjustable), Charge Status Indicator

Number of Scans (based on default settings):

Fully Charged: Typically more than 450 scans

Ready-to-Go Notification: At least 25 scans (@1 scan/sec)

First Recharge Alert (30%): Typically occurs after 300 scans $\pm 10\%$

Second Recharge Alert (10%): Typically occurs after 400 scans $\pm 10\%$

Expected Full Charge Time (completely discharged):

Standard USB: Typically under 120 seconds

Powered USB/External Wall Power Adapter: Typically under 60 seconds

Expected Ready-to-Go Charge Time:

Standard USB: Typically under 25 seconds

Powered USB/External Wall Power Adapter: Typically under 15 seconds

Use Time (5 scans/transaction, 1 min/transaction):

Fully Charged: Typically 25 minutes of usage

Ready-to-Go Notification: Typically 5 minutes of usage left

First Recharge Alert (flashing yellow LED): Typically 10 minutes of usage left

Second Recharge Alert (flashing red LED): Typically 5 minutes of usage left

Charge Cycles (from completely discharged): 500,000

DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)
NARROW WIDTH		
3 mil Code 128	56 mm – 132 mm (2.2 in – 5.2 in)	27 mm – 131 mm (1.1 in – 5.1 in)
5 mil Code 39	28 mm – 242 mm (1.1 in – 9.5 in)	14 mm – 219 mm (0.6 in – 8.6 in)
10 mil Code 39	0 mm – 443 mm (0 in – 17.4 in)	0 mm – 389 mm (0 in – 15.3 in)
13 mil UPC	0 mm – 490 mm (0 in – 19.3 in)	0 mm – 368 mm (0 in – 14.5 in)
15 mil Code 128	0 mm – 543 mm (0 in – 21.4 in)	0 mm – 417 mm (0 in – 16.4 in)
20 mil Code 39	4 mm – 822 mm (0.1 in – 32.4 in)	6 mm – 604 mm (0.2 in – 23.8 in)
5 mil PDF417	54 mm – 160 mm (2.1 in – 6.3 in)	30 mm – 155 mm (1.2 in – 6.1 in)
6.7 mil PDF417	34 mm – 220 mm (1.4 in – 8.7 in)	17 mm – 211 mm (0.7 in – 8.3 in)
7.5 mil DM**	49 mm – 172 mm (1.9 in – 6.8 in)	27 mm – 160 mm (1.0 in – 6.3 in)
10 mil DM**	29 mm – 245 mm (1.1 in – 9.7 in)	12 mm – 211 mm (0.5 in – 8.3 in)
20 mil QR	0 mm – 438 mm (0 in – 17.2 in)	0 mm – 331 mm (0 in – 13.0 in)

* Performance may be impacted by barcode quality and environmental conditions.

** Data Matrix (DM)

WIRELESS

Radio/Range: 2.4 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v4.2; Class 2: 10 m (33 ft) line of sight

ENVIRONMENTAL

Scanner:

Operating Temperature: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Humidity: 0 to 95% relative humidity, non-condensing

Drop: Designed to withstand 50 1.8 m (6 ft) drops to concrete

Environmental Sealing: IP42

Light Levels: 0 to 100,000 lux (9,290 ft-candles)

Electrostatic Discharge (ESD) (Scanners and Cradles): ± 8 kV indirect coupling plane, ± 15 kV direct air

Charge and Communication Base:

Operating Temperature:

Charging: 0°C to 50°C (32°F to 122°F)

Non-Charging: 0°C to 50°C (32°F to 122°F)

Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Humidity: 0 to 95% relative humidity, non-condensing

Drop: Designed to withstand 50 1 m (3.3 ft) drops to concrete

Environmental Sealing: IP41

Light Levels: N/A

MECHANICAL/ELECTRICAL

Scanner:

Dimensions: 104 mm x 71 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)

Weight: 195 g (6.9 oz)

Operating Power: N/A

Non-Charging Power: N/A

Host System Interface: N/A

Charge and Communication Base:

Dimensions: 132 mm x 102 mm x 81 mm (5.2 in x 4 in x 3.2 in)

Weight: 180 g (6.3 oz)

Operating Power: 5W (1A @ 5V)

Non-Charging Power: 0.5W (0.1A @ 5V)

Host System Interface: USB, Keyboard Wedge, RS-232, IBM 46xx (RS485)

SCAN PERFORMANCE

Scan Pattern: Area Image (1280 x 800 pixel array)

Motion Tolerance: Up to 400 cm/s (157 in/s) for 13 mil UPC at optimal focus

Scan Angle:

HD: Horizontal: 48°; Vertical: 30°

SR: Horizontal: 48°; Vertical: 30°

Symbol Contrast: 20% minimum reflectance difference

Roll, Pitch, Skew: $\pm 360^\circ$, $\pm 45^\circ$, $\pm 65^\circ$

Decode Capabilities: Reads standard 1D, PDF, 2D, Postal Digimarc, DotCode, and OCR symbologies

(Note: Decode capabilities dependent on configuration.)

Warranty:

Scanner: Three-year factory warranty

Supercapacitor: Five-year factory warranty

All scan performance and time usage is based on a 100% UPC/EAN Grade A barcode at room temperature. Performance will vary depending on quality of barcode, symbology scanned, environmental conditions, code length, etc. Products are designed and intended for commercial (not consumer) use.

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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For more information

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