XENON™ ULTRA 1962H

Cordless Bluetooth® Handheld Scanner

Continuing the legacy of barcode technology, Honeywell's Xenon Ultra helps to ensure clinicians are delivering fast, accurate and reliable patient care.

The Xenon Ultra 1962h incorporates Honeywell's next generation of scanning capability– allowing patient care to stay top priority for clinicians, helping improve retention of employees and helping lower the total cost of ownership for hospitals.

Developed with the healthcare environment in mind, the Xenon Ultra offers an improved design which reduces the amount of nooks or crannies, helping to limit areas where germs could linger and hide.

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 Ultra 1962h scanner takes up minimal space, can be mounted or stored in a variety of different places, ensuring nurses' focus is on patient safety and comfort. One scanner can now accept multiple power sources. Available with a battery-free supercapacitor or standard lithium-ion battery, both power options are also available in contactless orientations.

The battery-free technology runs on supercapacitors versus a battery and is capable of achieving a full charge in less than four minutes via the USB Port (under 60 seconds when using a powered USB port or external wall adapter). The Xenon Ultra 1962h scanner typically provides at least 450 scans of UPC/EAN Codes without recharging. This makes the scanner ideal for scanning applications at the bedside such as medicines administration or specimen collection.



Enhanced scanning performance, even on damaged or blood / IV bags barcodes, helps reduce wasted seconds for clinicians.

All healthcare models come with Anti-microbial disinfectant-ready housings. These models can be cleaned regularly with a wide variety of cleaning solutions without damaging your product.

Cerner VALIDATED

FEATURES AND BENEFITS

In addition to a green-dot aimer to visibly enhance targeting and improve scan accuracy, the newly engineered and innovative scan platform empowers snappy scanning operations.

The Xenon Ultra 1962 battery and battery-free are available in a premium contactless version, helping reduce the number of failed devices due to corrosion.

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

The Xenon Ultra 1962 scanner can accept a lithium-ion battery or a battery-free supercapacitor, allowing enterprises to have mixed device pools and flexibility in their fleets.

Multiple operating modes are available to help ensure maximum patient comfort while maintaining clinician productivity, such as Patient Do-Not Disturb, Vibration, and Scan Lamp.

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Xenon Ultra 1962h Technical Specifications

MECHANICAL

Dimensions (LxWxH):
Scanner:
108.2 mm x 70.4 mm x 160.2 mm
(4.3 in x 2.8 in x 6.3 in)
Presentation Base:
82.9 mm x 90.4 mm x 121.6 mm
(3.3 in x 3.6 in x 4.8 in)
Desktop/Wall Mount Base:
211.3 mm x 74.2 mm x 77.7 mm
(8.3 in x 2.9 in x 3.0 in)

Weight:
Lithium-ion Scanner:
247g / 255 g (contactless)
Battery Free Scanner:
218 g /227 g (contactless)
Presentation Base:
214 g / 220 g (contactless)
Desktop/Wall Mount Base:
223 g / 229 g (contactless)

Operating Power (Charging) Bases:
2.5W (500 mA at 5 V DC) Standard USB
10W (2A at 5V DC) – when utilizing power adapter

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

Host System Interfaces: USB, Keyboard Wedge, RS-232 Input Voltage: 1960: 4.4V DC to 5.5V DC

ENVIRONMENTAL

Operating Temperature:
Scanner: 0°C to 50°C (32°F to 122°F)
Bases: Charging: 5°C to 35°C (41°F to 95°F)
Non-Charging: 0°C to 50°C (32°F to 22°F)

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

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

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

Drop: Engineered to withstand 50 drops at 1.8 m (6 ft) to concrete across operating temp range

Mil Spec Drop: 8 ft

Tumble: 2,000 at 0.5 m (1.6 ft)

Environmental Sealing (Scanner): IP52

Environmental Sealing (CCB): IP41

Light Levels: 0 – 100,000 lux

SCAN PERFORMANCE

Image Sensor: 1280 x 1080 pixel array

Motion Tolerance: SR/HD – 4 meters/second

Imager Field of View:
SR/HD – Horizontal: 42°; Vertical: 36°

Print Contrast: As low as 15 %

Roll, Pitch, Skew: ±360°, ±65°, ±65°

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

Illumination: White 2700K

LED aimer light source: 525 nm

Image Quality: 109 PPI on an A4 document

Object Detection:
Configurable for 3 in or 6 in 1962 Cordless Scanner (refer to user's manual)

WIRELESS

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

POWER OPTIONS

Specifications the same for Xenon Ultra 1962 Contact and Contactless models

Battery: (based on default settings)– data based on utilization of power adapter
Capacity: 3300 mAh Li-ion (min)
Number of Scans (1scan/sec): up to 80,000 scans per charge
Expected Duration of Operation: 22 hrs
Expected Charge Time: 4.5 hrs

Battery-free Supercapactior:
(based on default settings) – data based on utilization of power adapter
Expected full charge time: < 60 seconds
Number of scans fully charged: 450
Charge Cycles: 500,000

*Supports USB BC1.2 charge ports, up to 2x faster charge rate

User Indicators: Good Decode LEDs, Rear View LEDs, Beeper (adjustable tone and volume), Charge Status LED Indicators, Battery LED indicator, Find my scanner button

Disinfectant Ready Housing (DRH) on all 1962h models

REGULATORY

EMC: EN55032, EN55035, EN61000-3-2, EN61000-3-3, FCC Part 15 Subpart B, ICES-003 Issue 7

Safety, Health and Environmental Compliance: EN62368-1, IEC 62368-1, IEC62471, IEC-63000 (ROHS), UL 62368-1, CSA C22.2 NO. 62368-1

FIPS: 140-3 (select skus)

Radio: FCC CFR Title 47 Part 15 Subpart C, RSS-Gen/RSS-247, EN 300 328

WARRANTY

1962 (cordless):
Scanner: 3 year factory warranty
Supercapacitor: 5 year factory warranty
Lithium-ion Battery Pack: 1 year

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

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

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DECODE RANGES (DoF)

TYPICAL PERFORMANCE*	STANDARD RANGE (SR)	HIGH DENSITY (HD)
NARROW WIDTH		
3 mil Code 39	34 mm – 174 mm (1.34 in – 6.85 in)	18 mm – 174 mm (0.71 in – 6.84 in)
5 mil Code 39	23 mm – 311 mm (0.91 in – 12.24 in)	7 mm – 295 mm (0.29 in – 11.62 in)
10 mil Code 39	0 mm – 651 mm (0 in – 25.63 in)	0 mm – 548 mm (0 in – 21.57 in)
13 mil UPC	0 mm – 654 mm (0 in – 25.75 in)	0 mm – 502 mm (0 in – 19.77 in)
7.5 mil Code 128	6 mm - 367 mm (0.24 in - 14.45 in)	0 mm - 345 mm (0 in - 13.6 in)
15 mil Code 128	0 mm – 728 mm (0 in – 28.66 in)	0 mm – 563 mm (0 in – 22.17 in)
20 mil Code 39	4 mm – 1115 mm (0.16 in – 43.9 in)	4 mm – 814 mm (0.17 in – 32.07 in)
5 mil PDF417	45 mm – 176 mm (1.77 in – 6.93 in)	22 mm – 173 mm (0.86 in – 6.82 in)
6.7 mil PDF417	22 mm – 229 mm (0.87 in – 9.02 in)	8 mm – 237 mm (0.32 in – 9.32 in)
5 mil DM**	n/a	35 mm - 113 mm (1.39 in - 4.43 in)
7.5 mil DM**	34 mm – 188 mm (1.34 in – 7.4 in)	16 mm – 183 mm (0.62 in – 7.19 in)
10 mil DM**	12 mm – 273 mm (0.47 in – 10.75 in)	2 mm – 249 mm (0.76 in – 9.8 in)
10 mil QR	11 mm - 262 mm (0.43 in - 10.32 in)	1 mm - 230 mm (0.05 in - 9.07 in)
20 mil QR	0 mm – 495 mm (0 in – 19.49 in)	0 mm – 392 mm (0 in – 15.43 in)

* Performance may be impacted by barcode quality and environmental conditions.
** Data Matrix (DM)

For more information
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