

Automation & Instrumentation Trading | **Honeywell**

Product Portfolio | Productivity Solutions: Barcode Scanners

Honeywell delivers cutting-edge **mobility**, **scanning**, and **printing** technologies that streamline workflows and boost productivity across industries worldwide.

Key Highlights

- Boosts Workforce Efficiency
- Comprehensive Product Ecosystem
- Built for Harsh Environments
- Seamless Integration
- Enhanced Accuracy & Speed
- Trusted Global Adoption

See the brochures attached for full product information.

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Fusion 3780

Omnidirectional Laser Scanner

Honeywell's Fusion™ 3780 is an affordable hand-held omnidirectional laser scanner with single-line capability that increases retail checkout system efficiency with its automatic in-stand operation, optionally integrated EAS, and industry-leading scan performance.

Fusion combines omnidirectional and single-line laser bar code scanning into a lightweight, ergonomic hand-held form factor. The 20-line scan pattern provides superior scanning over existing single-line hand-held scanners making Fusion ideal for medium-volume retailers including specialty stores, pharmacies, liquor stores, and convenience stores.

An adjustable stand with 50° of tilt and three locking positions provides flexibility for the user to position the scanner for individual comfort and optimal performance. Stabilized with a weighted metal base, the stand may also be hard-mounted to counters or walls.

Fusion also includes CodeGate®, a Honeywell patented feature used in the highly successful Voyager® series. An integrated infra-red (IR) sensor automatically activates the laser when a bar code is present. The user then properly aligns the bar code before pressing the button, transmitting the data to the host. This feature provides the ability to pass over other bar codes, selecting only the required code. No other scanner offers this much control.

Standard features such as Flash ROM, MetroSelect® and MetroSet®2 programming, and user replaceable cables protect your investment by enabling Fusion to grow with you and your application requirements.



Features

- **Primary Omnidirectional Scan Pattern:** Aggressive scanning in any orientation, increasing throughput
- **Secondary Single-Line Scan Pattern:** With a push of a button, switch to a targeted single-line for menu scanning applications
- **Automatic In-Stand Detection:** Hands-free operation for presentation scanning reduces operator fatigue
- **Sleep Mode With IR Wake Up:** Multiple sleep modes reduce power consumption, extending life and lowering cost of operation
- **Optional Integration of RF EAS Antenna:** Increases efficiency by simultaneously deactivating RF EAS tags and decoding bar codes

Fusion 3780 Technical Specifications

Mechanical

Dimensions (LxWxH)	189 mm x 65 mm x 73 mm (7.4" x 2.6" x 2.9")
Weight	195 g (6.9 oz)

Electrical

Input Voltage	5 VDC $\pm$ 0.25 V
Operating Power	1.4 W (275 mA @ 5 V)
Standby Power	1.0 W (200 mA @ 5 V)
Host System Interfaces	USB, RS232, Keyboard Wedge, IBM 46xx (RS485), OCIA

Environmental

Operating Temperature	-20°C to 40°C (-4°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand multiple 1.5 m (5') drop
Environmental Sealing	Sealed to resist airborne particulate contaminants
Light Levels	4842 Lux

Scan Performance

Scan Pattern	Omnidirectional: 5 fields of 4 parallel lines; Button activated single line
Scan Speed	Omnidirectional: 1,333 scan lines per second; Single line: 67 scan lines per second
Print Contrast	35% minimum reflectance difference
Pitch, Skew	60°, 60°
Decode Capability	Reads standard 1D and GS1 DataBar symbologies
Warranty	3 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 bar code symbologies, please visit www.honeywellaidc.com/symbologies



For more information:

www.honeywellaidc.com

Typical Performance*	
Narrow Width	Depth of Field
5.2 mil	44 mm - 108 mm (1.8" - 4.3")
7.5 mil	25 mm - 190 mm (1.0" - 7.5")
10.4 mil	25 mm - 240 mm (1.0" - 9.5")
13 mil	25 mm - 280 mm (1.0" - 11.0")
21 mil	25 mm - 300 mm (1.0" - 12.0")
*Resolution: 5 mil (0.127 mm)	
*Performance may be impacted by bar code quality and environmental conditions	

Honeywell Scanning & Mobility

9680 Old Bailes Road
Fort Mill, SC 29707
800.582.4263
www.honeywell.com

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Voyager 1400g

Area-Imaging Scanner

2D barcodes are popular across a wide range of industries for a number of reasons. Some enterprises have a desire to capture large amounts of data, despite space constraints, while others are being required to read 2D barcodes due to government regulations or supplier mandates. And an even larger group of enterprises simply have the desire to leverage emerging trends that require area-imaging technology, today or in the future, without needing to purchase additional scanning hardware.

Enterprises that recognize the importance of upgrading to area-imaging scanners are generally unwilling to accept a decline in scan performance. They are also looking for a solution that is capable of reading traditional paper-based barcodes, as well as barcodes found on alternative mediums, such as mobile phone screens.

Built on the platform of Honeywell's world-renowned Voyager™ series of handheld linear scanners, the Voyager 1400g delivers omnidirectional reading of linear barcodes, plus the ability to affordably upgrade the device to enable PDF and 2D barcode scanning – at the time of purchase or as scanning needs evolve. Performing at speeds that are comparable to laser-based scanners, the versatile and reliable Voyager 1400g can be customized to meet current and future scanning needs, lowering the total cost of ownership.

With no need for additional functionality beyond linear and 2D barcode scanning, many enterprises are unwilling to pay for full-featured area-imaging scanners. The Voyager 1400g enables PDF and 2D barcode scanning without extra value-added features, such



as advanced image capture and processing applications, allowing Honeywell to offer 2D scanning at an attractive price.

The Voyager 1400g offers an exceptional value for enterprises that require the versatility of area-imaging technology today or may need it in the future. Produced by a company with more than 19 years of experience in engineering quality area-imaging solutions, Honeywell's Voyager 1400g area-imaging scanner is a smart investment.

FEATURES & BENEFITS



Reliable Data Collection:

Offers omnidirectional reading of virtually all linear barcodes and the most widely used 2D barcodes, including poor-quality and mobile barcodes (2D decoding available in select models).



Remote MasterMind™ Ready:

Reduces total cost of ownership by providing a turnkey remote device management solution that easily manages and tracks usage of installed devices.



Future-Proof: Delivers affordable scanning of 2D barcodes, allowing enterprises to meet their current and future barcode scanning needs with a single device.



Flexible Licensing Solution:

Meets diverse scanning requirements by offering models with basic functionality – purchase software licenses to enable additional functionality as the need arises.

Voyager 1400g Technical Specifications

MECHANICAL

Dimensions (L x W x H): 180 mm x 66 mm x 43 mm
(7.1 in x 2.6 in x 1.7 in)

Weight: 119 g (4.2 oz)

ELECTRICAL

Input Voltage: 4.0V DC to 5.5V DC

Operating Power: 2 W (400 mA @ 5V DC)

Standby Power: 0.45 W (90 mA @ 5V DC)

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

ENVIRONMENTAL

Operating Temperature: 0°C to 40°C
(32°F to 104°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 30 1.5 m (5 ft)
drops to concrete

Environmental Sealing: IP42

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

SCAN PERFORMANCE

Scan Pattern: Area Image (640 x 480 pixel array)

Motion Tolerance: Up to 10 cm/s (4 in/s) for
13 mil UPC at optimal focus

Scan Angle: Horizontal 37.8°; Vertical 28.9°

Symbol Contrast: 35% minimum
reflectance difference

Pitch, Skew: 60°, 70°

Decode Capability:

1400g1D: all standard 1D symbologies

1400gPDF: all standard 1D and
PDF417 symbologies

1400g2D: all standard 1D, PDF417,
and 2D symbologies

Warranty: 5-year factory warranty

TYPICAL PERFORMANCE*

NARROW WIDTH

5 mil Code 39

13 mil UPC

20 mil Code 39

6.7 mil PDF417

10 mil DM**

20 mil QR

DEPTH OF FIELD

36 mm – 105 mm (1.4 in – 4.1 in)

30 mm – 255 mm (1.2 in – 10.0 in)

35 mm – 355 mm (1.4 in – 14.0 in)

35 mm – 100 mm (1.4 in – 3.9 in)

35 mm – 100 mm (1.4 in – 3.9 in)

25 mm – 205 mm (1.0 in – 8.1 in)

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

** Data Matrix (DM)

For a complete listing of all
compliance approvals and
certifications, please visit
[www.honeywellaidc.com/
compliance](http://www.honeywellaidc.com/compliance).

For a complete listing of
all supported barcode
symbologies, please visit
[www.honeywellaidc.com/
symbologies](http://www.honeywellaidc.com/symbologies).

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Honeywell Safety and Productivity Solutions

9680 Old Bailes Road

Fort Mill, SC 29707

800-582-4263

www.honeywell.com

Voyager 1400g Data Sheet | Rev D | 09/18
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VOYAGER 1602g

Wireless Upgradeable Pocket Scanner

Honeywell's affordable Voyager 1602g pocket scanner packs high-performance barcode scanning technology into an elegant and pocketable form factor—making it the perfect tablet scanning companion.



The Voyager 1602g packs high performance scanning into the palm of your hand.

Designed to complement the clean look of consumerized devices while comfortably moving with the mobile worker, 1602g is ideal for tablet-based fixed point-of-sale, mobile point-of-sale, inventory management, backroom/stockroom, in-store customer engagement and even non-retail scanning applications such as salesforce automation.

Despite its small size, this pocket scanner incorporates the same high performance scan engine found in our full-size handheld scanners.

The Voyager 1602g is capable of scanning virtually all 1D and 2D bar codes—even poor quality, damaged, or low contrast codes. It is even possible to read bar codes right off customers' mobile phone screens, preparing organizations for the fast-growing trend of mobile coupons, digital loyalty programs and other revenue-generating mobile marketing initiatives.

Portability and ergonomics were emphasized in the design of Voyager 1602g. It features a contoured design that fits perfectly in the palm. Soft touch plastics, an over-sized trigger button with tactile feedback, and a white LED aimer make scanning fun and easy.

With an integrated Bluetooth® Class 2 radio, Voyager 1602g pairs quickly with Apple iOS, Android® and Windows® mobile devices—as well as standard PCs and laptops equipped with Bluetooth technology. Enjoy wireless freedom of movement up to 10 meters (33 feet) from the host device without worrying about battery life, thanks to a user-replaceable battery that lasts up to 2,250 scans in a single twelve-hour shift.

FEATURES AND BENEFITS



Incorporates Honeywell's high performance area-imaging engine for aggressive, omnidirectional 1D and 2D bar code scanning.



Capable of reading bar codes off smartphone screens—mobile coupons, digital wallets, and digital loyalty cards..



Ready for your evolving data capture needs, the 1602g can be purchased as a 1D scanner and affordably upgraded to 2D scanning at any time in the future.



Bluetooth wireless technology provides freedom of movement up to 10 m (33 ft) from host device.



Features a battery rated for up to 2,250 scans over 12 hours, rechargeable over standard microUSB.

Honeywell

Voyager 1602g Technical Specifications

WIRELESS CONNECTIVITY

Radio/Range: 2.4 to 2.5 GHz (ISM Band)
Adaptive Frequency Hopping Bluetooth
v2.1; Class 2; 10 m (33 ft) line of sight

Battery: 750 mAh Li-ion minimum

Number of Scans: Up to 2,250 scans per
full charge

Expected Hours of Operation: 12 hours

Expected Charge Time: 3 hours

MECHANICAL/ELECTRICAL

Dimensions (LxWxH): 120 x 48 x 22 mm
(4.7 x 1.9 x 0.9 in)

Weight: < 100 g (3.5oz)

ENVIRONMENTAL

Temperature:

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

While Charging: 0°C to 40°C (32°F to
104°F)

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

Drop: Designed to withstand 30 1.4 m
(4') drops to concrete

Environmental Sealing: IP52

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

SCAN PERFORMANCE

Scan Pattern: Area Image (1040*720 pixel
array)

Motion Tolerance: Up to 10 cm/s (4 in/s)
for 13 mil UPC at optimal focus

Scan Angle: Horizontal 41.4°; Vertical 32.2°

Symbol Contrast: 35% minimum
reflectance difference

Warranty: 3 year factory warranty

TYPICAL PERFORMANCE*

NARROW WIDTH	DEPTH OF FIELD
5mil Code 39	24mm - 202mm (1" - 7.9")
13mil UPC	39mm - 324mm (1.6" - 12.7")
20mil Code 39	42mm - 511mm (1.7" - 20.1")
6.7mil PDF417**	23mm - 177mm (0.9" - 6.9")
10mil DM**	12mm - 168mm (0.5" - 6.6")
20mil QR**	24mm - 262mm (1" - 10.3")

* Performance may be impacted by bar code
quality and environmental condition.

** Only the 2D version of 1602g
supports these symbologies

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
<http://honeywell.com/PSS-symbologies>.

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For more information

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Honeywell Safety and Productivity Solutions

855 S Mint St
Charlotte, NC 28202
800-582-4263
www.honeywell.com

VOYAGER XP 1470g

Durable 2D Scanner

Designed for retail environments requiring an accurate 2D scanning solution in a durable form factor, the Voyager XP 1470g scanner delivers scanning capability on traditional barcodes and digital screens – even on damaged and difficult-to-read codes.

With durability and a more powerful scan capability than previous models, the Voyager XP 1470g scanner is the perfect option for workflows that include 1D and 2D barcode reading and require a more robust and reliable solution. The Voyager XP 1470g scanner combines added durability and better scan capability at the same competitive price point as its predecessor. The scanner's extended scan distance will reach right to the bottom of the cart without bending and wasted time at the checkout.

Built on the platform of Honeywell's iconic Voyager series handheld scanners, the Voyager XP 1470g scanner is fully backward-compatible with existing Voyager accessories, reducing total cost of ownership.

Engineered to 30 drops at 1.8 m (6 ft) and 1,000 tumbles at 0.5 m (1.6 ft), the Voyager XP 1470g scanner is built to withstand busy point-of-sale scanning with much better accuracy than comparable solutions.



The Voyager XP 1470g scanner combines enhanced reading of poor-quality and damaged codes with durability, reducing the risk of errors and operational slowdowns and avoiding the hidden cost of warranty.

DISINFECTANT-READY HOUSINGS

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



Highly accurate and fast scanning of even damaged and poor-quality barcodes, with an extended scan distance to reach the bottom of the cart without bending and wasted time at point of sale.



Enhanced performance on stores scan every day, including digital coupons, codes, wallets on customers' smartphones, merchandise codes at the register.



Honeywell Operational Intelligence provides actionable insights into critical areas such as mobility devices, printer usage, and network connectivity. These insights can be turned into automated workflows that optimize workflow processes for greater productivity.



The Honeywell Scanner Management Utility (SMU) creates a holistic solution that automates deployment and updating of the scanner.

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Voyager XP 1470g Technical Specifications

MECHANICAL/ELECTRICAL

Dimensions (L x W x H): 62 mm x 169 mm x 82 mm (2.4 in x 6.6 in x 3.2 in)
Scanner Weight: 130 g (4.6 oz)
Input Voltage: 4.0V DC to 5.5V DC
Operating Power: 2 W (400 mA @ 5V DC)
Standby Power: 0.45 W (90 mA @ 5V DC)
Host System Interfaces: USB, Keyboard Wedge, RS-232, RS485 support for IBM 46xx (RS485)

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)
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: 1,000 0.5 m (1.6 ft) tumbles

Drop: 30 1.8 m (6 ft) drops to concrete
Environmental Sealing: IP52
Light Levels: 0 to 100,000 lux (9,290 foot-candles)

SCAN PERFORMANCE

Scan Pattern: Area Image (1040 x 720 pixel array)
Motion Tolerance: 70 cm/s (27.6 in/s) for 13 mil UPC at optimal focus
Scan Angle: Horizontal: 39.2° nominal; Vertical: 27.4° nominal
Roll, Pitch, Skew: ±180°, ±65°, ±70°
Print contrast: 15%
Decode Capabilities: Reads standard 1D, PDF, 2D, and DotCode symbologies
Note: Decode capabilities dependent on configuration.
Warranty: 5-year factory warranty

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)
5 mil Code 39	20 mm – 205 mm (0.8 in – 8.1 in)
13 mil UPC	18 mm – 400 mm (0.7 in – 15.8 in)
6.7 mil PDF417	15 mm – 185 mm (0.6 in – 7.3 in)
10 mil Data Matrix	10 mm – 165 mm (0.4 in – 6.5 in)
20 mil QR	5 mm – 325 mm (0.2 in – 12.8 in)

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

For more information
sps.honeywell.com

Honeywell Safety and Productivity Solutions
855 S Mint St
Charlotte, NC 28202
800-582-4263
www.honeywell.com



XENON™ ULTRA 1960G

Corded Handheld Scanner

Today's retailers consistently face increasing demands for a seamless and memorable customer service. In order to achieve the efficiency needed to create elevated customer experiences, retailers need a scanning solution that empowers associates to move through their workflows precisely and without impedance.



The Xenon Ultra for retail is a premium evolution of the widely known legacy Xenon and Xenon XP general purpose scanners, taking our industry-leading scan performance and reliability one step further.

The Xenon Ultra 1960g incorporates Honeywell's next generation of scanning capability – allowing retailers to stay productive and keep customer service as their top priority. With optional dual-camera extended range (XR) models, retailers can use the scanner for both up-close and extended, bottom-of-the-basket scanning.

Available in a cordless Bluetooth configuration which offers premium accessory upgrades such as interchangeable power sources, contactless charging and magnetic retention capabilities.

Superior scanning performance, even on damaged and poor-quality barcodes, regardless of presentation, reduces wasted seconds from every retail transaction.

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 modern design exhibits an improved aesthetic, and the enhanced user experience and durability businesses depend on.



The flexible XR supports most scanning use cases in a single device without compromising range or speed, helping retailers get more done while managing fewer device types.



Utilize the cable from your existing deployment of the Xenon XP 1950g on your new deployment of Xenon Ultra 1960.



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

Xenon Ultra 1960g Technical Specifications

MECHANICAL

Dimensions:

108.2 mm x 70.4 mm x 160.2 mm
(4.3 in x 2.8 in x 6.3 in)

Weight: 147.2 g (5.2 oz)

Input Voltage: 1960: 4.4V DC to 5.5V DC

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

Host System Interfaces: USB, Keyboard
Wedge, RS-232

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

ENVIRONMENTAL

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

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

Mil Spec Drop: 3.0 m (10 ft)

Drop (Multiple): 1.8 m (6 ft) to concrete
across operating temp range

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

Environmental Sealing (Scanner): IP52

Light Levels: 0 to 100,000 lux

SCAN PERFORMANCE

Image Sensor: 1280 x 1080 pixel array

Motion Tolerance:

SR/XR – 4 m/sec

HD – 4 m/sec

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

3" default when placed in stand

6" with configuration change when placed
in stand

WARRANTY

1960 (Corded): 5-year factory warranty

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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of their respective owners.

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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Honeywell Safety and Productivity Solutions

855 S Mint St
Charlotte, NC 28202
800-582-4263
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Xenon Ultra 1960g Data Sheet A4 | Rev B | 08/23
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Honeywell

XENON™ ULTRA 1962LI

Cordless Bluetooth® Handheld Scanner

As barcodes become more complicated – smaller and denser – light manufacturers need a scanner they can rely on to provide fast and accurate barcode scanning on even the toughest codes.

The Xenon Ultra 1962LI incorporates Honeywell's next generation of scanning capability– allowing uptime and productivity to stay top priority for manufacturers, by capturing both paper and light direct part mark barcodes – even down to 2 mils.

The scanner is engineered to perform equally without sacrificing quality, whether it is deployed in its handheld trigger-mode or presentation mode.

The Xenon Ultra's green dot LED aimer and improved software algorithms make it an ideal tool for light industrial applications. The cordless nature of the Xenon Ultra 1962 scanner ensures that workers' attention is kept on maximizing productivity by eliminating wasted time managing cables.

Engineered to withstand 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 Ultra 1962LI delivers stand out durability. This helps significantly reduce scanner downtime and service costs, supporting a longer lifecycle and helping lower total cost of ownership.



Honeywell's purpose-built scanner is designed for electronic and light manufacturers who know that switching between general purpose and industrial scanners could lead to costly downtime

All models come with disinfectant-ready housings. These models can be cleaned regularly with a wide variety of cleaning solutions without damaging your product. See Honeywell website for list of approved cleaners.

FEATURES AND BENEFITS



Redesigned housing enables full product gasketing reducing the chance of water and dust ingress. Improved optional magnetic retention helps the scanner to stay securely connected to the CCB if deployed in kinetic conditions.



Added IR capabilities helps reduce annoying false activations, enabling illumination only on when needed. It also helps to reduce the snappiness gap between point and shoot and hands-free modes of operation.



Xenon Ultra for light industrial applications has an innovative illumination system enables scanning of most ultra high density mark – regardless of size, surface, marking method or contrast.



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.



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

Honeywell

Xenon Ultra 1962LI 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:

247 g / 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

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: 3.4 meters/second

Imager Field of View:

Horizontal: 28°; Vertical: 24°

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
symbolologies

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

Configurable for 3" or 6" 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 Supercapacitor:

(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
1962LI models

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 symbolologies, please visit
www.honeywell.com/PSS-symbolologies

Xenon is a trademark or registered trademark
of Honeywell International Inc. in the
United States and/or other countries.

Bluetooth is a trademark or registered
trademark of Bluetooth SG, Inc.

DECODE RANGES (DoF)

TYPICAL PERFORMANCE*

NARROW WIDTH

2 mil Code 39	5 mm – 74 mm (0.19 in – 2.91 in)
3 mil Code 39	0 – 101mm (0 – 3.98in)
5 mil Code 39	0 – 127mm (0 – 5in)
10 mil Code 39	0 – 225mm (0 – 8.86in)
13 mil UPC	26mm – 198mm (1.02in – 7.8in)
7.5 mil Code 128	0 – 130mm (0 – 5.12in)
15 mil Code 128	24mm – 222m (0.94in – 8.74in)
20 mil Code 39	32mm – 360mm (1.26in – 14.17in)
5 mil PDF417	11mm – 96mm (0.43in – 3.78in)
6.7 mil PDF417	4mm – 113m (0.16in – 4.45in)
5 mil DM**	3mm – 86mm (0.12in – 3.39in)
7.5 mil DM**	0 – 110mm (0 – 4.33in)
10 mil DM**	3mm – 123mm (0.12in – 4.84in)
10 mil QR	8mm – 111mm (0.31in – 4.37in)
20 mil QR	11mm – 179mm (0.43in – 7.05in)

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

** Data Matrix (DM)

For more information

sps.honeywell.com

Honeywell Safety and Productivity Solutions

855 S Mint St
Charlotte, NC 28202
800-582-4263
www.honeywell.com

GRANIT™ XP 1990iXR

Ultra-Rugged Area-Imaging Scanner

Following a legacy of successful deployments, the next generation Granit XP scanners expand capabilities and redefine ultra-rugged scanning.

With an ultra-rugged 3 meters (10 foot) drop, Granit™ XP is engineered to keep on working after the impact of drops from loading docks, forklifts and picking trucks.

The 1 meter (3.3 foot) tumble test indicates lasting durability with daily knocks and drops from workstations or waist height. A grueling 7,000 tumble specification ensures Granit scanners are ready to work long-term in demanding environments. With Honeywell FlexRange™ technology, Granit XP XR models offer an ideal blend of no-sacrifice near-field scanning plus the expanded range to read UPCs at 1.5 meter (5 feet) and 100 mil (2.54 millimeter) rack labels at 10 meters (33 feet), addressing many warehouse, distribution center and manufacturing workflows.

Field feedback shows that the scan window is a high-frequency failure point for scanning devices in the industrial environment. Granit scanners are designed with a small, deeply recessed, scratch- and impact-resistant window to prevent these failures. This is a critical sealing component ensuring dust and moisture do not enter the case and degrade scanning performance or cause premature failure. The Granit solution ensures its IP67 sealing remains intact, even under harsh treatment.

Barcodes make data entry faster and more accurate, maximizing productivity in your operations. However, damaged and low quality barcodes can make transactions slow and painful. Bad labels commonly occur in the warehouse, DC and industrial environments due to low quality printing or damage during handling. Granit XP is built on Honeywell's next-generation imaging platform, integrating a high-resolution sensor and enhanced decoding algorithms to quickly and accurately read barcode symbols. Granit XP ensures that otherwise challenging labels do not create a bottleneck in your process.

The corded Granit XP 1990iXR model offers high-durability, extreme performance scanning for standard and extended range operations. Created for applications where high-speed scanning is needed to maximize productivity and where durability is non-negotiable for low total cost of ownership, the Granit XP 1990iXR scanner offers the optimal solution.



Granit XP 1990iXR scanners provide extreme performance scanning with engineered ruggedness for rock-solid reliability and low total cost of ownership.

FEATURES AND BENEFITS



Built to survive harsh treatment including 3 m (10 ft) drops, 7,000 1 m (3.3 ft) tumbles, operating temperatures from -30°C to 50°C (-22°F to 122°F) and IP67 sealing, Granit XP reduces service costs and increases device uptime.



Granit provides extreme performance scanning, even on damaged and low-quality barcodes. High-quality barcodes scan and transmit faster than ever.



The XR model is ideally suited to normal, near-field scanning operations on 1D and 2D barcodes, plus expanded range scanning of UPC to 1.5 m (5 ft) and 100 mil codes to 10 m (33 ft).



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

GRANIT™ XP 1990iXR Technical Specifications

MECHANICAL

Dimensions (L x W x H): 192 mm x 76 mm x 100 mm (7.6 in x 3.0 in x 3.9 in)

Weight – Corded: 320 g (11.3 oz)

User Indicators: Good Decode LEDs, Beeper (adjustable tone and volume), Vibration (adjustable)

ELECTRICAL

Input Voltage: 4.0 VDC to 5.5 VDC

Operating Power – Corded: 2.35 W (470 mA @ 5 VDC)

Standby Power – Corded: 0.5 W (100 mA @ 5 VDC)

Host System Interfaces: USB, Keyboard Wedge, RS-232 TTL

ENVIRONMENTAL

Operating Temperature* – Corded: -30°C to 50°C (-22°F to 122°F)

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

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

Drop:

2 m (6.5 ft): 50 drops from -30°C to 50°C (-22°F to 122°F), uncontrolled RH

2.4 m (8 ft): 20 drops at 25°C (77°F), 55% RH

3 m (10 ft): MIL-STD-810G, 25°C (77°F), 55% RH

Tumble: 7,000 1 m (3.3 ft) tumbles

Environmental Sealing: IP67 and IP65

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

ESD: ±20 kV air discharge, ±8 kV contact discharge

SCAN PERFORMANCE

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

Motion Tolerance: Up to 4500 mm/s (177 in/s)

Scan Angle: Horizontal: 40°, 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

Warranty – Scanner: Three-year factory warranty

Warranty – Battery Pack: One-year factory warranty

TYPICAL PERFORMANCE**

Narrow Width	Extended Range
5 mil Code 39	20 mm to 220 mm (0.8 in to 8.7 in)
10.4 mil C128	3 mm to 343 mm (0.1 in to 13.5 in)
13 mil UPC	0 mm to 1520 mm (0 in to 59.8 in)
15 mil C128	0 mm to 1727 mm (0 in to 68 in)
20 mil Code 39	0 mm to 2236 mm (0 in to 88.0 in)
6.7 mil PDF 417	20 mm to 209 mm (0.8 in to 8.2 in)
10 mil Data Matrix	30 mm to 220 mm (1.2 in to 8.6 in)
20 mil QR Code	0 mm to 484 mm (0 in to 19.1 in)
22 mil QR Code	0 mm to 1671 mm (0 in to 65.8 in)
70 mil C128	136 mm to 7240 mm (5.4 in to 285 in)
Min. resolution 1D Code 39	3 mil (0.076 mm)
Min. resolution 2D Data Matrix	6 mil (0.152 mm)
100 mil Code 39	10 m (33 ft)

*With industrial-grade cable ordered separately.

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

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 <http://honeywell.com/PSS-symbologies>.

Granit and Flex Range are trademarks or registered trademarks of Honeywell International Inc.

All other trademarks are the property of their respective owners.

For more information

sps.honeywell.com

Honeywell Safety and Productivity Solutions

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800-582-4263
www.honeywell.com

GRANIT™ ULTRA 2100i

Ultra-Rugged Corded Area-Imaging Scanner

Granit Ultra scanners expand capabilities and define the next generation of ultra-rugged scanning.

ULTRA SCAN PERFORMANCE

For a scanner to optimize productivity, it should read and transmit common barcodes nearly as fast as the user can pull the trigger, and Granit Ultra is engineered to do just that. Granit Ultra integrates high speed processing, AI(Artificial Intelligence) algorithms, and decoding enhancements to result in an average 45% scanning speed increase vs. Granit XP¹, enabling improved productivity.

ULTRA DURABILITY

In modern warehouse, distribution center, and manufacturing environments, any scanner must be durable enough to survive harsh operating conditions. Under exactly that kind of rough treatment, Honeywell Granit Ultra is ready to deliver.

ULTRA EASE OF USE

Ready to operate right out of the box for many applications, Granit offers easy custom configuration in the time it takes to scan a barcode. For further workflow improvement, Granit can also read multiple codes in the field of view, organizing and outputting the data in a predefined order using Honeywell's Data Format Editor.



Honeywell Granit Ultra 2100i
Ultra-Rugged Scanner

SCAN MODELS

SR (Standard Range) models are ready to read barcodes from contact to arms length

XR (Expanded Range) models are ready to read UPC/EAN13 from contact to nearly 6' (1.8m), or up to 33' (10.85m) for 100 mil Code 39

FEATURES AND BENEFITS



Built to survive harsh treatment including 3m (10ft) drops, 7500 1m (3.3ft) tumbles, operating temperatures from -30°C to 50°C (-22°F to 122°F), and IP65/68 sealing, Granit Ultra reduces service costs and increases device uptime



Granit Ultra provides rapid scanning, even on damaged and low quality barcodes. High quality barcodes transmit faster than ever.



SR model reads from contact to arms length. XR model is ideally suited to near and mid-field scanning operations on 1D and 2D barcodes. For even longer reading distances, refer to XLR model in the Granit XP family.



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

Honeywell

Granit Ultra 2100i Technical Specifications

MECHANICAL

Scanner dimensions (L x W x H): 194.8mm x 75.8mm x 139.5mm (7.7 in x 3.0 in x 5.5 in)
Scanner Weight: 330g (11.64 oz)
User Indicators: Good decode LEDs, Beeper (adjustable tone and volume), Vibration (adjustable)

ELECTRICAL

Input Voltage: 4.0 VDC to 5.5 VDC
Operating Power: 2.15W (430mA @ 5VDC)
Standby Power: 0.875W (175mA @ 5VDC)
Host System Interfaces: USB, Keyboard Wedge, RS-232 TTL (cables available to convert for +/-12V True use)

ENVIRONMENTAL

Operating Temperature: -30°C to 50°C (-22°F to 122°F)
Storage Temperature: -40°C to 70°C (-40°F to 158°F)
Humidity: Up to 95% relative humidity, non-condensing
Drop:
3m (10 ft): MIL-STD-810G, 25°C (77°F), 55% relative humidity
2.5m (8.2 ft): 20 drops from -30°C to 50°C (-22°F to 122°F), 55% relative humidity
2m (6.5 ft): 50 drops from -30°C to 50°C (-22°F to 122°F), uncontrolled relative humidity
Tumble: 7,500 1m (3.3ft) tumbles
Vibration: Withstands 5G peak from 5 to 300Hz

Trigger activations: Tested to 3 million cycles
Environmental Sealing: IP65 and IP68
Light Levels: 0 to 100,000 lux (9,290 foot-candles)
ESD: +/-20KV air discharge, +/-8kV contact discharge, +/-8kV indirect coupling plane

SCAN PERFORMANCE

Scan Pattern -SR: Area imager (1280x1080 pixel array)
Scan Pattern -XR: Near and Far: Area imager (1280x1080 pixel array)
Illumination-SR: Warm White 2700K LED
Illumination-XR: Yellow-Green LED
Aimer -SR: Green LED, 525nm peak wavelength
Aimer-XR: Green class 2 laser, 520nm peak wavelength
Motion Tolerance: Up to 4000 mm/s
Scan Angle (Field of View):
SR: Horizontal: 42°, Vertical 36°
XR-Near: Horizontal: 42°, Vertical 36°
XR-Far: Horizontal: 16°, Vertical 14°
Print Contrast: As low as 15%
Roll, Pitch, Skew: +/-360°, +/-65°, +/-65°
Minimum Barcode Resolution: 2.5 mil 1D, 5 mil 2D
Image Capture: Up to 109PPI on an A4 document
Decode Capabilities²:
1D: Code 39, code 128, code 93, code 11, code 32, Pharmaceutical, EAN, UPC, codabar, China Post, GS1 databar
2D: Aztec, Data Matrix, QR/Micro QR code,

Maxicode, Chinese sensible (Han Xin) code, postal code, PDF417, DotCode,
Digital Watermarking: Digimarc
OCR: OCR A, OCR B, MICR E-13B and SEMI Font, in a 6 to 60 point OCR typeface
Note: Decode capabilities dependent on configuration.

REGULATORY³:

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, IEC60825 for XR model (laser)

Accessories: Stands, holders, holsters, power supplies, cables, heaters.

Warranty: Three-year factory warranty

Services: Honeywell Edge Service

Utilities and Management: EZConfig, SMU, Total Freedom, Scanner Edge, SDKs, Various Drivers

SYMBOLGY ⁴	STANDARD RANGE(SR) - TYPICAL		EXPANDED RANGE(XR) - TYPICAL	
	NEAR DISTANCE (MM [IN])	FAR DISTANCE (MM [IN])	NEAR DISTANCE (MM [IN])	FAR DISTANCE (MM [IN])
5 mil C39	10 [0.39]	269 [0.59]	10 [0.39]	269 [0.59]
10 mil C128	0 [0.0]	531 [20.91]	0 [0.0]	1,503 [59.17]
13 mil UPC	0 [0.0]	634 [24.96]	0 [0.0]	1,780 [70.08]
20 mil C128	0 [0.0]	1,033 [40.67]	0 [0.0]	2,812 [110.71]
100 mil C39	NA	NA	NA	10,848 [427.09]
6.7 mil PDF417	14 [0.55]	243 [9.57]	14 [0.55]	243 [9.57]
10 mil DataMatrix	5 [0.20]	261 [10.28]	5 [0.20]	261 [10.28]
20 mil QR Code	0 [0.0]	480 [18.9]	0 [0.0]	1,464 [57.64]
100 mil DataMatrix	NA	NA	NA	5,329 [209.80]

1. Honeywell standard benchmarking testing conducted on Granit Ultra SR and XR models vs. Granit XP on 6 collections of reference barcodes
2. For a complete listing of all supported barcode symbologies, please visit <http://honeywell.com/PSS-symbologies>.
3. For a complete listing of all compliance approvals and certifications, please visit www.honeywell.com/PSScompliance.
4. Performance may be impacted by barcode quality and environmental conditions

To learn more about how Granit Ultra is ready to improve your operations, contact your Honeywell representative or partner today.

For more information
automation.honeywell.com

Honeywell Industrial Automation
855 S Mint St Charlotte, NC 28202
800-582-4263
www.honeywell.com

Honeywell standard benchmarking testing conducted on Granit Ultra SR and XR models vs. Granit XP on 6 collections of reference barcodes

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GRANIT™ ULTRA 2105i

Ultra-Rugged Cordless Area-Imaging Scanner

Granit Ultra scanners expand capabilities and define the next generation of ultra-rugged scanning.

ULTRA SCAN PERFORMANCE

For a scanner to optimize productivity, it should read and transmit common barcodes nearly as fast as the user can pull the trigger, and Granit Ultra is engineered to do just that. Granit Ultra integrates high speed processing, AI(Artificial Intelligence) algorithms, and decoding enhancements to result in an average 45% scanning speed increase vs. Granit XP¹, enabling improved productivity.

ULTRA DURABILITY

In modern warehouse, distribution center, and manufacturing environments, any scanner must be durable enough to survive harsh operating conditions. Under exactly that kind of rough treatment, Granit is ready to deliver.

ULTRA EASE OF USE

Ready to operate right out of the box for many applications, Granit offers easy custom configuration in the time it takes to scan a barcode. For further workflow improvement, Granit can also read multiple codes in the field of view, organizing and outputting the data in a predefined order using Honeywell's Data Format Editor.

The all new charge and communication base is loaded with features to simplify common tasks. Easy drop-in charging makes scanner placement in the cradle fast and efficient for flat work surfaces; engaging the latching mechanisms helps ensure secure retention for vertical or vehicle mounting.



*Honeywell Granit Ultra 2105i
Ultra-Rugged Scanner*

SCAN MODELS

SR (Standard Range) models are ready to read barcodes from contact to arms length

XR (Expanded Range) models are ready to read UPC/EAN13 from contact to nearly 6' (1.8m), or up to 33' (10.85m) for 100 mil Code 39

FEATURES AND BENEFITS



Built to survive harsh treatment including 3m (10ft) drops, 7500 1m (3.3ft) tumbles, operating temperatures from -20°C to 50°C (-4°F to 122°F), and IP65/68 sealing, Granit Ultra reduces service costs and increases device uptime.



Granit Ultra provides rapid scanning, even on damaged and low quality barcodes. High quality barcodes transmit faster than ever.



SR model reads from contact to arms length. XR model is ideally suited to near and mid-field scanning operations on 1D and 2D barcodes. For even longer reading distances, refer to XLR model in the Granit XP family.



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

Honeywell

Granit Ultra 2105i Technical Specifications

MECHANICAL

Scanner dimensions (L x W x H): 194.8mm x 75.8mm x 139.5mm (7.7 in x 3.0 in x 5.5 in)

Charge and Communication Base dimensions (L x W x H): 250.1mm x 102mm x 80.7mm (9.8 in x 4.0 in x 3.2 in)

Weight-Scanner: 425g (15 oz)

Weight—Charge and Communication Base: 357g (12.6 oz)

User Indicators: Good decode LEDs, Battery Status LED, Bluetooth Connection Status LED, Beeper (adjustable tone and volume), Vibration (adjustable)

ELECTRICAL

Input Voltage: 4.4VDC to 5.5VDC

Operating Power(Charging): 2.5W (500mA @ 5V USB 2.0)

Operating Power(Charging): 7.5W (1500mA @ 5V BC1.2 or external power supply)

Standby Power: 0.6W (120mA @ 5VDC)

Host System Interfaces: USB, Keyboard Wedge, RS-232 TTL (cables available to convert for +/-12V True use)

Charging time:

- USB 2.0:** <12 hours
- USB BC1.2:** <4 hours
- Power supply (5V 3A):** <4 hours

POWER OPTIONS

Battery: 3300 mAh Li-ion

Number of scans: Up to 100,000 scans per charge

Expected duration of operation: 14 hours operating at 2 scans per second

RADIO

Bluetooth® v4.2;

2.4 to 2.5 GHz (ISM Band)

Adaptive Frequency Hopping

Class 1: 100m (330 ft) line of sight with Honeywell Charge and Communication Base

ENVIRONMENTAL

Operating Temperature(non-charging): -20°C to 50°C (-4°F to 122°F)

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

Charging Temperature: 5°C to 35°C (41°F to 95°F)

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

Drop:

- 3m (10 ft):** MIL-STD-810G, 25°C (77°F), 55% relative humidity
- 2.5m (8.2 ft):** 20 drops from -20°C to 50°C (4°F to 122°F), 55% relative humidity
- 2m (6.5 ft):** 50 drops from -30°C to 50°C (-22°F to 122°F), uncontrolled relative humidity

Tumble: 7,500 1m (3.3ft) tumbles

Vibration: Withstands 5G peak from 5 to 300Hz

Trigger activations: Tested to 3 million cycles

Environmental Sealing:

- Scanner:** IP65 and IP68
- Charge and Communication Base:** IP65

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

ESD: +/-20KV air discharge, +/-8kV contact discharge, +/-8kV indirect coupling plane

SCAN PERFORMANCE

Scan Pattern -SR: Area imager (1280x1080 pixel array)

Scan Pattern -XR: Near and Far: Area imager (1280x1080 pixel array)

Illumination-SR: Warm White 2700K LED

Illumination-XR: Yellow-Green LED

Aimer -SR: Green LED, 525nm peak wavelength

Aimer-XR: Green class 2 laser, 520nm peak wavelength

Motion Tolerance: Up to 4000 mm/s

Scan Angle (Field of View):

- SR:** Horizontal: 42°, Vertical 36°
- XR-Near:** Horizontal: 42°, Vertical 36°
- XR-Far:** Horizontal: 16°, Vertical 14°

Print Contrast: As low as 15%

Roll, Pitch, Skew: +/-360°, +/-65°, +/-65°

Minimum Barcode Resolution: 2.5 mil 1D, 5 mil 2D

Image Capture: Up to 109PPI on an A4 document

Decode Capabilities²:

- 1D:** Code 39, code 128, code 93, code 11, code 32 Pharmaceutical, codabar, EAN, UPC, China Post, GS1 databar
- 2D:** Aztec, Data Matrix, QR/Micro QR code, Maxicode, Chinese sensible (Han Xin) code, postal code, PDF417, DotCode,
- Digital Watermarking:** Digimarc
- OCR:** OCR A, OCR B, MICR E-13B and SEMI Font, in a 6 to 60 point OCR typeface

Note: Decode capabilities dependent on configuration.

REGULATORY³:

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, IEC60825 for XR model (laser)

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

Accessories: Stands, holders, holsters, power supplies, cables, heaters, charge and communication bases, Bluetooth access points, batteries.

Warranty: Three years factory warranty (Battery - one year)

Services: Honeywell Edge Service

Utilities and Management: EZConfig, SMU, Total Freedom, Scanner Edge, SDKs, Various Drivers

SYMBOLGY ³	STANDARD RANGE(SR) - TYPICAL		EXPANDED RANGE(XR) - TYPICAL	
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Honeywell standard benchmarking testing conducted on Granit Ultra SR and XR models vs. Granit XP on 6 collections of reference barcodes

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