

# 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 122°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](http://www.honeywell.com/PSScompliance)

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

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## 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](http://sps.honeywell.com)

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