# 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 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**
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 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
1962LI models

## WARRANTY

**1962 (cordless):**

Scanner: 3 year factory warranty

Supercapacitor: 5 year factory warranty

Lithium-ion Battery Pack: 1 year

## DECODE RANGES (DoF)

| TYPICAL PERFORMANCE* | |
|---|---|
| **NARROW WIDTH** | |
| 2 mil Code 39 | 5 mm – 74 mm (0.19 – 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 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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**For more information**

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