XENON™ 1970 SERIES

Corded Scanner

Manufacturers need a scanner they can rely on to provide fast and accurate recognition of even the toughest codes.

The Xenon 1970 integrates Honeywell's latest illumination technology and intelligent DPM (Direct Part Marking) decoding algorithms to deliver uncompromised speed and accuracy in demanding manufacturing settings.

With its unique optical design, the Xenon 1970 scanner can read ultra-high density barcodes with a minimum readable size of 2 mil DataMatrix.

Engineered to recognize even the most challenging dot peen DPMs and various barcode types — inlcuding those with low contrast, curved surfaces, reflective materials, or damage — the Xenon 1970 scanner is highly competitive in manufactuing markets and widely applicable in electronics manufacturing, auto parts and the automotive industry, lithium battery production, and the photovoltaic (solar) industry.



The Xenon 1970 enables superior scanning performance, even on damaged and poor-quality barcodes, with uncompromised scanning speed.

FEATURES AND BENEFITS

Innovative illumination design enables quick and accurate scanning of most DPM barcodes – low-contrast, curved or rounded surfaces, highly reflective, damaged or incomplete codes, and dot peen DPM.

Newly designed scanning platform combined with an intelligent DPM decoding algorithm deliver a significant leap forward in scanning speed and performance.

Advanced optical system supports reading of ultra-high density barcodes and reaches a minimum readable density of 1.5 mil (1D) and 2 mil (2D).

A stable hardware platform built on the Xenon series and enhanced with a new, fresh exterior design make it more competitive in light industrial and commercial markets.

The Honeywell Scanner Management Utility (SMU) provides a comprehensive solution that automates the deployment and updating of scanners across various environments.

Honeywell

Xenon 1970 Series 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: 161 g (5.68 oz)

Input Voltage: 4.75V DC to 5.25V 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)

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

ESD: ±8 kV indirect coupling plane, ±15kV direct air

Environmental Sealing (Scanner): IP52

SCAN PERFORMANCE

Image Sensor: 1280 x 1080 pixel array

Motion Tolerance:

- **HD:** 3.5 m/s (138 in/s) for 13 mil UPC at optimal focus
- **UD:** 2.0 m/s (79 in/s) for 13 mil UPC at optimal focus

Imager Field of View:
Horizontal 38° ; Vertical 32°

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:** 5500K direct illumination
- **Blue:** 450 nm indirect illumination

LED Aimer Light Source: 518 nm

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.

DECODE RANGES (DoF) TYPICAL PERFORMANCE*

FOCUS	HIGH DENSITY (HD)		ULTRA-HIGH DENSITY (UD)	
SYMBOLOGY	NEAR DISTANCE	FAR DISTANCE	NEAR DISTANCE	FAR DISTANCE
5 mil Code 39	0 mm (0 in)	130 mm (5.12 in)	0 mm (0 in)	60 mm (2.36 in)
13 mil UPC	5 mm (0.20 in)	180 mm (7.09 in)	5 mm (0.20 in)	85 mm (3.35 in)
3 mil Data Matrix	—	—	5 mm (0.20 in)	30 mm (1.18 in)
5 mil Data Matrix	20 mm (0.79 in)	90 mm (3.54 in)	0 mm (0 in)	35 mm (1.38 in)
10 mil Data Matrix	0 mm (0 in)	130 mm (5.12 in)	0 mm (0 in)	55 mm (2.17 in)
Resolution (1D)	3 mil	3 mil	1.5 mil	1.5 mil
Resolution (2D)	4 mil	4 mil	2 mil	2 mil

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

For more information
automation.honeywell.com

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Honeywell

XENON™ 1972 SERIES

Cordless Handheld Scanner

Honeywell integrates the latest technology and algorithms to enable faster, more accurate recognition of challenging codes in manufacturing.

Honeywell's Xenon 1972 combines the latest illumination technology and intelligent DPM (Direct Part Marking) decoding algorithms to deliver speed and accuracy even on damaged and poor-quality barcodes.

With its unique optical design, the Xenon 1972 scanner can read ultra-high density barcodes with a minimum readable size of 2 mil DataMatrix.

Highly competitive in manufactuing markets and widely applicable in electronics manufacturing, auto parts and automotive industry, lithium battery production, and photovoltaic (solar) industry, the Xenon 1972 scanner is optimized to recognize even the most challenging dot peen DPMs and barcode types — inlcuding those with low contrast, curved surfaces, reflective materials, or damage.



The Xenon 1972 cordless handheld scanner enables fast, superior scanning performance, even on damaged and poor-quality barcodes.

FEATURES AND BENEFITS

Innovative illumination design enables quick and accurate scanning of most DPM barcodes – low-contrast, curved or rounded surfaces, highly reflective, damaged or incomplete codes, and dot peen DPM.

Newly designed scanning platform combined with an intelligent DPM decoding algorithm deliver a significant leap forward in scanning speed and performance.

Advanced optical system supports reading of ultra-high density barcodes and reaches a minimum readable density of 1.5 mil (1D) and 2 mil (2D).

A stable hardware platform built on the reliable Xenon XP series and enhanced with a new, fresh exterior design make it more competitive in light industrial and commercial markets.

The Honeywell Scanner Management Utility (SMU) provides a comprehensive solution that automates the deployment and updating of scanners across various environments.

Honeywell

Xenon 1972 Series Technical Specifications

MECHANICAL

Dimensions:

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:
76.3 mm x 90.4 mm x 124.9 mm
(3.0 in x 3.6 in x 4.9 in)

Weight:

Lithium-ion Scanner: 237 g (8.36 oz)

Presentation Base: 163 g (5.75 oz)

Operating Power (Charging Base):
2.5W (500 mA at 5V DC) standard USB,
10W (2A at 5V DC) when using power adapter

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

Host System Interfaces: USB, RS-232

ENVIRONMENTAL

Operating Temperature:

Scanner: 0°C to 50°C (32°F to 122°F)

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

Non-Charging Base: 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)

Drop (Scanner): 1.8 m (6 ft) to concrete
across operating temp range, 50 drops

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

Environmental Sealing (Scanner): IP52

Environmental Sealing (CCB): IP41

Light Levels: 0 to 1000,000 lux

SCAN PERFORMANCE

Image Sensor: 1280 x 1080 pixel array

Motion Tolerance:

HD: 3.5 m/s (138 in/s) for 13 mil UPC
at optimal focus

UD: 2.0 m/s (79 in/s) for 13 mil UPC
at optimal focus

Imager Field of View:
Horizontal 38° ; Vertical 32°

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 scanner configuration

Illumination:

White Light: 2700K direct illumination

Blue Light: 450 nm indirect illumination

LED Aimer Light Source: 518 nm

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 with 10 m line
of sight BLE available

POWER OPTIONS

Battery(Default Settings): Based on
utilization of power adapter

Scans: 2 scans per second, up to
80,000 scans per charge

Operation Duration: 16 hours
(approximately)

Charge Time: 4.5 hours
Note: 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

WARRANTY

Scanner: 3-year factory warranty

Lithium-ion Battery Pack: 1-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*

FOCUS	HIGH DENSITY (HD)	ULTRA-HIGH DENSITY (UD)
NARROW WIDTH		
5 mil Code 39	0 mm to 130 mm (0 in to 5.12 in)	0 mm to 60 mm (0 in to 2.36 in)
13 mil UPC	5 mm to 180 mm (0.20 in to 7.09 in)	5 mm to 85 mm (0.20 in to 3.35 in)
3 mil Data Matrix	—	5 mm to 30 mm (0.20 in to 1.18 in)
5 mil Data Matrix	20 mm to 90 mm (0.79 in to 3.54 in)	0 mm to 35 mm (0 in to 1.38in)
10 mil Data Matrix	0 mm to 130 mm (0 in to 5.12 in)	0 mm to 55 mm (0 in to 2.17 in)

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