

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 — including those with low contrast, curved surfaces, reflective materials, or damage — the Xenon 1970 scanner is highly competitive in manufacturing 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.

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)	
	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

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Xenon 1970 Datasheet | Rev A | 07/26
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