XENON™
1970 SERIES

Corded Scanner

Xenon 1970 integrates Honeywell's latest illumination technology and AI decoding algorithms, enabling faster and more accurate recognition of challenging DPM codes in manufacturing — including low contrast, curved surfaces, reflective materials, damaged codes, dot peen DPM , etc.

Xenon 1970 has the unique optical design allows reading of ultra-high density barcodes, with a minimum readable size of 2mil DataMatrix.

Xenon 1970 has optimized for various DPM barcode types, the Xenon 1970 is highly competitive in manufacturing scenarios and is widely applicable in: Electronics manufacturing, Automotive and auto parts industry, Lithium battery production, Photovoltaic (solar) industry.

FEATURES & ADVANTAGES

Innovative Illumination Design

Enables coverage of nearly all types of DPM (Direct Part Marking) barcodes. It can quickly and accurately read low-contrast codes, curved or rounded surfaces, highly reflective materials, damaged or incomplete codes, and dot peen DPM.

Newly Designed Scanning Platform with AI Algorithm

The combination of a redesigned scanning platform and intelligent AI decoding algorithm delivers a significant leap in scanning speed and performance for customers.

Advanced Optical System

Supports reading of ultra-high density barcodes commonly found in electronics manufacturing. Minimum readable density reaches 1.5mil (1D) and 2mil (2D).

Stable Hardware Platform with New Industrial Design

Built on the reliable Xenon series hardware platform and enhanced with a fresh exterior design, making it more competitive in light industrial and commercial markets.

Honeywell Scanner Management Utility (SMU)

Provides a comprehensive solution that automates the deployment and updating of scanners across various environments.

Honeywell

XENON 1970 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: 161g (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: 1.8 m (6 ft) to concrete across operating temp range
ESD: ±8 kV indirect coupling plane, ±15kV direct air
Environmental Sealing: 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 and blue(450nm) indirect illumination
LED aimer light source: 518 nm

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	mm	0	130	0	60
	in.	0	5.12	0	2.36
13 mil UPC	mm	5	180	5	85
	in.	0.20	7.09	0.20	3.35
3 mil Data Matrix	mm	-	-	5	30
	in.	-	-	0.20	1.18
5 mil Data Matrix	mm	20	90	0	35
	in.	0.79	3.54	0	1.38
10 mil Data Matrix	mm	0	130	0	55
	in.	0	5.12	0	2.17
Resolution (1D)		3 mil		1.5 mil	
Resolution (2D)		4 mil		2 mil	

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

For more information
automation.honeywell.com

Honeywell Industrial Automation

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

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