MS4980

Compact Area-Imaging Scanner

Honeywell's MS4980 compact area-imaging scanner offers aggressive scanning of all 1D, PDF and 2D bar codes in a lightweight, durable and portable form factor. The scanner also features a sleek and elegant design that blends seamlessly in retail environments.

Automatic infrared object detection enables robust and easy presentation scanning, while patented CodeGate® technology provides precise targeting and scanning of closely grouped bar codes.

The MS4980 delivers an array of advanced features that enhance productivity. Aggressive reading of bar codes on highly reflective surfaces, such as mobile phone screens, eliminates the need to purchase additional specialty hardware. A 1.2 mega-pixel CMOS sensor allows the scanner to capture high resolution images of signatures, identification cards and personal checks.

An intelligent multi-interface design distinguishes the MS4980 from competitive scanners. The scanner has three dedicated memory banks—each one capable of storing full configurations for RS232, keyboard wedge and USB interfaces. Automatic cable detection and configuration simplifies scanner management by eliminating the need for manual configuration after the change of an interface cable.

TotalFreedom™ expands scanner functionality by allowing image processing, decoding and formatting plug-ins to be loaded directly to the MS4980 instead of the host system.

The MS4980 is small enough to be held in the palm or worn on the back of the hand. Its compact size also allows it be mounted anywhere, including in self-service scanning kiosks.

For more information on the MS4980 compact area-imaging scanner, please visit www.honeywell.com/aidc

Features

- **Aggressive Pass-Through Scanning:** Enhances productivity by enabling cashiers to capture bar codes moving rapidly past the scan window

- **Flexible Licensing Solution:** Meets diverse scanning requirements by offering models with limited decoding capabilities—purchase decoding licenses to enable additional functionality as the need arises

- **Infrared Object Detection:** Minimizes operator fatigue by providing hands-free presentation scanning

- **Intelligent Multi-Interface Design:** Provides automatic cable detection and configuration, reducing overall system costs

- **CodeSelect™:** Scans up to 7 bar codes in a single flash and outputs data in any predetermined order

- **TotalFreedom:** Expands scanner functionality by allowing image processing, decoding and formatting plug-ins to be loaded directly to the scanner instead of the host system

- **Wide Field of View:** Excels at scanning wide bar codes and OCR fonts close to the face

- **Mobile Phone Reading:** Scans bar codes directly from the screen of a mobile device

MS4980 Technical Specifications

Operational

Light Source	Visible Red LED 645 nm ± 7.5 nm
Visual Indicators	Blue = ready to scan; White = good read
Host System Interfaces	USB, RS232, and Keyboard Wedge

Mechanical

Dimensions (LxWxH)	74 mm x 50 mm x 26 mm (2.9″ x 1.9″ x 1.0″)
Weight	70 g (2.5 oz)
Termination	15-POS D-Sub connector

Electrical

Input Voltage	5 VDC ± 0.25 V
Operating Current (typical)	1.7 W (331 mA @ 5 V)
Idle Current (typical)	1.2 W (230 mA @ 5 V)
DC Transformers	Class 2: 5.2 VDC @ 1 A
LED Class	Class 1: IEC60825-1, EN60825-1
EMC	FCC Part 15, ICES-003, EN55022 Class B

Environmental

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.5 m (5′) drops
Environmental Sealing	IP32
Light Levels	100,000 lux (9,290 foot-candles)

Scan Performance

Scan Pattern	Area Image (1280 x 960 pixel array)
Motion Tolerance	100 cm/s (39″/s) for 13 mil UPC @ 13 cm (5″) distance
Scan Angle	Horizontal: 45°, Vertical: 37.5°
Focal Point	130 mm
Print Contrast	30% minimum reflectance difference
Pitch, Skew	70°, 75°
Decode Capability	Reads standard 1D, PDF, 2D, Postal and OCR symbologies. Visit www.honeywell.com/aidc/symbologies for details. *Note: Decode capabilities dependent on kit configuration
Warranty	2 year factory warranty

Typical Performance*	
Narrow Width	**Depth of Field**
5.2 mil (1D)	88.9 mm – 144.8 mm (3.5″ – 5.7″)
7.5 mil (1D)	88.9 mm – 180.3 mm (3.5″ – 7.1″)
10.4 mil (1D)	78.7 mm – 248.9 mm (3.1″ – 9.8″)
13 mil (1D)	40.6 mm – 299.7 mm (1.6″ – 11.8″)
26 mil (1D)	40.6 mm – 409.0 mm (1.6″ – 16.1″)

* Resolution: 5 mil (0.125 mm)
* Performance may be impacted by bar code quality and environmental conditions

Typical Performance*	
Narrow Width	**Depth of Field**
7.5 mil (Data Matrix)	78.7 mm - 200.7 mm (3.1″ – 7.9″)
10 mil (Data Matrix)	90 mm - 215 mm (3.5″ – 8.5″)
15 mil (Data Matrix)	40.6 mm - 299.7 mm (1.6″ – 11.8″)

* Performance may be impacted by bar code quality and environmental conditions

For more information:

www.honeywell.com/aidc

Honeywell Security & Data Collection

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