HF680M

Embedded Hi-speed Area–Imaging Scanner

With proven capability to read all standard 1D, PDF and 2D codes easily, the HF680M 2D Embedded Area–imaging Scanner is a revolutionary product to improve productivity and customer experiences as well.

The *Internet Plus* is developing very fast and conventional industries with counter service mode such as retailer, healthcare and public service provider, etc. are standing at a turning point of transition, that is, it has gradually become a key and popular trend for membership/chain supermarkets, convenience stores, hospitals and airports to install touchless self–service terminals, where Honeywell HF680M Embedded Hi-speed Area-Imaging Scanner is playing an active role in the innovation and transformation.

HF680M features Imaging Technology, making it compatible with various codes, such as the codes on smartphone LCD and OLED, and paper-based product barcodes. Frequent switching of scanning modes by the user is not required, significantly boosting the decoding range and improving efficiency.

HF680M can scan codes on mainstream LCD screens (with brightness level ranges of 10% to 100%) and OLED screens, as well as the paper-based product barcodes with contrast at over 20% and various high-density, stained or damaged barcode which contain full information.

FEATURES & BENEFITS

Convenient embedded design:

- Fully integrated design enables the scanner to embed into various self–service equipment.

Great decoding performance:

- IR triggering design can deliver accurate and efficient sensing and decoding, effectively preventing repetitive scanning;

- Instantly, as the barcode flashes through the scan window, HF680M can capture the image and start decoding, delivering a very smooth decoding experience to the user.

Support for decoding in various extreme conditions:

- HF680M can read 3-mil barcodes, barcodes covered with water droplets, bent barcodes, damaged barcodes that contain complete information, lengthy barcodes, highly-dense QR codes, and inverse barcodes;

- It can read barcodes on LCD and OLED screens with minimum brightness. When the mainstream smartphone screen's brightness is 10% or more, HF680M can quickly read the barcodes;

- It can scan barcodes on paper with a print contrast of at least 20%. Even when the printing quality is too poor, HF680M can still help the user decode at a desirable speed.

Prolonged service life:

- All the key parts have passed theoretical design and stringent testing. In a simulated user environment, the product lasts more than 40,000 hours (or more than three years);

- Prolonged warranty period up to 3 years, to ensure smooth and trouble-free operation for users.

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HF680M Technical Data

Physical
Dimensions (L x W x H): 88.9 mm x 73.1mm x 49.3 mm
Weight: 57.5 +/-5g

Electrical
Input voltage: 5 VDC ±0.5V
Working: 2.0 W (400 mA @ 5V)
Standby: 0.85 W (170 mA @ 5V)
Host interface: USB, RS-232

Environmental
Operating temperature: –10°C to 40°C (14°F to 104°F)
Storage temperature: –40°C to 60°C (-40°F to 140°F)
Humidity: 0% to 95%RH, no condensation
Drop: Designed to withstand 1 m drops
Illuminance: 0-100,000 Lux

Scanning Performance
DPI: 1280 x 800 pixel
Motion tolerance: Up to 2.5 m/s for 13 mil UPC at optimal focus
Scan angle: Horizontal: 47°; Vertical: 30°
Print Contrast: 20% minimum reflectance difference
Pitch, Skew: +/-60°, +/-70°
Decode Capability: Reads standard 1D, PDF, 2D Symbologies
Note: Decode capabilities dependent on kit configuration.
Warranty: 3-year factory warranty

Depth of Field (DOF)

Typical Performance*	
NARROW WIDTH	DOF
5.0 mil Code 39	0 mm – 100 mm
6.7 mil PDF	15 mm – 100 mm
10 mil DM	15 mm – 100 mm
13 mil UPC-A	0 mm – 200 mm
20 mil Code 39	0 mm – 250 mm
20mil QR	15 mm – 200 mm

* Minimum Resolution: 1D: 3 mil; 2D: 6.7 mil
* Performance may be impacted by barcode quality and environmental conditions.

For more information, please visit:

www.honeywellaidc.com.cn

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