

# Honeywell®

## MK-3780 Fusion

Omnidirectional laser barcode scanner include stand

Honeywell's Fusion combines the omnidirectional and the single-line laser barcode scanning in a lightweight, ergonomic hand-held form factor. The 20-line scan pattern provides superior scanning over existing single-line hand-held scanners making the Fusion the ideal device for medium-volume retailers including specialty stores, pharmacies, liquor stores, and convenience stores. An adjustable stand with 50° of tilt and three locking positions provides flexibility for the user to position the scanner for individual comfort and optimal performance. Stabilized with a heavy metal base, the stand may also be mounted onto counters or walls. The Fusion also includes the CodeGate®, a Honeywell's patented feature used in the highly successful Voyager® Series. An integrated infrared (IR) sensor automatically activates the laser when a barcode is present. The user then properly aligns the barcode before pressing the button and transmitting the data to the host system. This feature provides the ability to dismiss other barcodes, selecting only the required ones. No other scanner offers this much control. Standard features such as the Flash ROM, the MetroSelect® and the MetroSet2® programming, and user replaceable cables protect your investment by enabling the Fusion to grow with you and your application requirements.



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**Fe**

- atures Primary omnidirectional scan
- pattern Aggressive scanning of barcodes in any orie
- ntation Secondary single-line scan
- pattern Switch to a targeted single-line for men
- u scanning Automatic stan
- d detection Hands-free operation for presentati
- on scanning Sleep mode wi
- th IR wake up Multiple sleep modes reduce powe
- r consumption Optional E
- AS integration Deactivate an EAS tag and decode a barcode in

### a single scan

SCAN PERFORMANCE Depth of Scan Field (programmable) 25 mm - 279 mm (1" - 11") for 0.33 mm (13 mil) bar code at default setting Width of Scan Field 30 mm (1.2") @ 25 mm (1.0"); 150 mm (5.9") @ 280 mm (11.0") Scan Speed 1,333 scan lines/sec, omnidirectional; 67 scan lines/sec, single-line Scan Pattern 5 fields of 4 parallel lines omnidirectional; or button activated single line Number of Scan Lines 20 (omnidirectional); or 1 (single-line) Minimum Bar Width 0.127 mm (5.0 mil) Print Contrast 35% minimum reflectance difference Roll, Pitch, Yaw 360°, 60°, 60° OPERATIONAL Light Source Visible Laser Diode 650 nm

Laser Power 1.1 mW (peak) Decode Capability Autodiscriminates all standard 1D bar codes, including RSS-Expanded, RSS-14 and RSS-14 Limited; for other symbologies call Metrologic System Interfaces RS232, Keyboard Wedge, Stand Alone Keyboard, IBM 468x/469x, USB, OCIA Number Characters  
Read Up to 80 data characters Beep Operation 7 tones or no beep Indicators Blue = laser on

**ready to scan**

Green White = good read MECHANICAL Length (scanner only) 189 mm (7.44") Width (scanner only) 65 mm (2.56") Height (scanner only) 73 mm (2.88") Weight (scanner only) 195 g (6.9 oz) Termination 10 position modular RJ45 connector Cable Standard 2.1 m (7') straight; optional 2.7 m (9')

**coiled for operation**

Other cables call Metrologic ELECTRICAL Input Voltage 5 VDC +0.25 V Power 1.375 W Operating Current 275 mA typical @ 5 VDC DC Transformers Class 2; 5.2 VDC @ 650 mA Laser Class Class 1; IEC60825-1:1993/A1:1997+A2:2001 Class 1; EN60825-1:1994/A11:1996+A2:20

**01 EMC FCC**

ICES-003 & EN55022 Class A ENVIRONMENTAL Operating -20°C to 40°C (-4°F to 104°F) Storage Temperature -40°C to 60°C (-40°F to 140°F) Humidity 5% to 95% relative humidity, non-condensing Light Levels Up to 4842 Lux (450 footcandles) Contaminants Sealed to resist airborne particulate contaminants Ventilation None required



# Technical Description

## Functionality & Operation

|                          |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Operation interface      | scan button                                                                                                                     |
| 1D Barcode Symbolologies | Codabar, Code 93, Code 39, Code 128, EAN 13/UPCA, French Pharma Code, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI |
| Communication interface  | USB, RS232, keyboard, IBM 46xx (RS485), OCIA, Laser Emulation, Light Pen Wand Emulation                                         |
| Configuration            | by programming barcodes                                                                                                         |
| Language support         | French, German, Italian, Norwegian, Portuguese, Spanish, Swedish, US and UK English, Belgian                                    |

## Optical

|                         |                                                                    |
|-------------------------|--------------------------------------------------------------------|
| Depth of scan field     | 25-280 mm (13 mil barcode)                                         |
| Light source            | visible laser diode VLD 650 nm                                     |
| Minimum symbol contrast | 35%                                                                |
| Maximal skew angle      | 60°                                                                |
| Scanning rate           | 1,333 scan lines per second; Single line: 67 scan lines per second |
| Scannig pattern         | 5 directions                                                       |

## Electrical

|                               |                   |
|-------------------------------|-------------------|
| Power Source                  | 5 VDC $\pm$ 0.25V |
| Power Consumption - Standby   | 1W                |
| Power Consumption - Operation | 1.4W              |

## Mechanical

|            |                                         |
|------------|-----------------------------------------|
| Dimensions | Width: 73mm, Height: 189mm Length: 65mm |
| Weight     | 195g                                    |

## Environment

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Operating temperature             | -20 to 40°C                           |
| Storage temperature               | -40 to 60°C                           |
| Storage humidity (non-condensing) | 5 to 95%                              |
| Shock resistance                  | drop from 1,5 m onto concrete surface |
| Maximal ambient light             | 4842lux                               |

## Others

|                |                                        |
|----------------|----------------------------------------|
| Certifications | BSMI, C-Tick, CE, FCC Class A, IC, MIC |
|----------------|----------------------------------------|

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