# MICA M-9080i
## Area Imager Barcode Scanner

SCANTECH ID

## Introduction

The MICA M-9080i is a high performance, omni-directional area imager bar code scanner. It uses digital imaging technology to provide intuitive and fast reading of 1D and 2D bar codes as well as supporting more advanced features like image capture deactivation. It is designed for various built-in and OEM solutions, such as self-service kiosks, POS (Point-of-Sales) terminals, price checkers, healthcare solutions etc. Besides, a stand option can be ordered to facilitate on-counter reading options.

It supports up to 500mm reading depth of 1D and 2D barcode, its scan rate is up to 120 scans per second in linear emulation and 60 images per second in 2D area mode. Based on CMOS technology for optimal image sensitivity and dynamic range, the M-9080i features scanning speeds two times faster than traditional 2D imagers.

MICA M-9080i is a high performance area imager scanner, provides customers with the most cost-effective solution in the market and perfectly suitable and definitely the best choice for any retail and logistic environment.
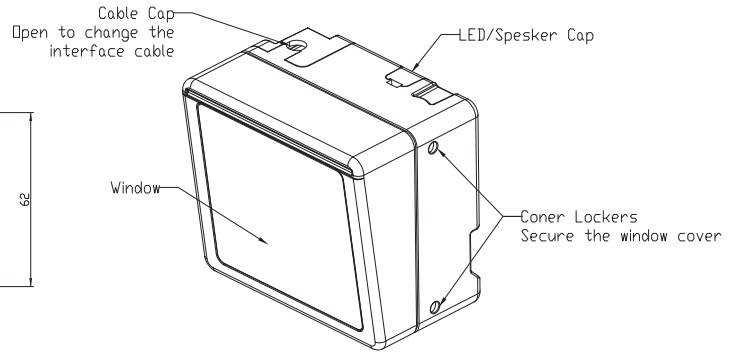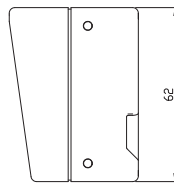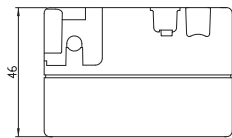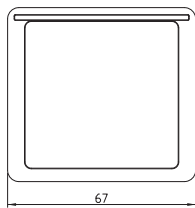
## Features

- Optimized design for built-in and OEM applications.
- Reading all common 1D and 2D barcodes, include GS1 DataBar codes.
- Scan rate per second is up to 120 scans in linear emulation, 60 images in 2D area mode.
- Supports up to 500mm reading depth of 1D and 2D barcode.
- A stand option can be ordered to facilitate on-counter reading options.

## Reading Range

| Focus Range | Near | Far |
|---|---|---|
| 5.0 mil Code 39 | 1.9 in./4.7 cm | 7.7 in./19.4 cm |
| 20 mil Code 39 | Field of view limited | 24.0 in./60.9 cm |
| 6.67 mil PDF417 | 2.7 in./6.8 cm | 7.0 in./17.9 cm |
| 15 mil PDF417 | Field of view limited | 13.2 in./33.5 cm |
| 10 mil Datamatrix | Field of view limited | 8.3 in./21.0 cm |
| 13 mil 100% UPC | 2.8 in./7.2 cm | 16.8 in./42.4 cm |

# MICA M-9080i

Cable Cap
Open to change the
interface cable

LED/Spesker Cap

Window

Coner Lockers
Secure the window cover

46

62

67

## Specifications

● **Physical Characteristics**

| | |
|---|---|
| Body Weight | Approx. 120g |
| Dimension | Scanner: 67.00mm(W) x 62.00mm(H) x 46.00mm(L) |
| Cable Length | USB (150cm); RS232 (200cm) |
| Material | PC + ABS |
| Connector | RJ48 |

● **Performance**

| | |
|---|---|
| Light Source | Visible red light 625nm LED |
| Scan Speed | 120 scans per second in 1D mode<br>60 images per second in 2D mode |
| Resolution | 752(H) x 480 (V) pixels |
| View of Field | 40° Horizontal, 25° Vertical |
| Forward & Backward (Pitch) | ±60° (from front to back) |
| Left & Right (Skew) | ±60° (from plane parallel to symbol (side-to-side)) |
| Rotational Tolerance | ±180° |
| Interface | RS-232, USB (HID KBW or Virtual comport) |
| Indicators | Green=good read |

● **Electrical Characteristics**

| Interface | RS232 | USB(HID KBW) | USB(Virtual Com.) |
|---|---|---|---|
| Supply Voltage | DC Adaptor DC+5V 5% | USB Power | USB Power |
| Stand by (Typ.) | 250 mA | 250 mA | 250 mA |
| Operation (Typ.) | 280 mA | 280 mA | 280 mA |

● **Environmental**

| | |
|---|---|
| Operating Temp. | 0°C to 50°C (32°F to 122°F ) |
| Storage Temp. | -20°C to 70°C (-4°F to 158°F ) |
| Relative Humidity | 20% to 95% (Non-condensing) |
| Ambient Light | 100,000 Lux Max. (Sunlight) |

● **Reliability**

| | |
|---|---|
| Life Time | |
| MTBF (Calculated) | 50,000 hours |
| Cable Bending Test | 25,000 times minimum (30 times/min @ 500g/90°) |
| Drop | 47.24 inches (120cm) drop on concrete surface |

● **Readable Symbologies**

1D Symbologies
EAN/UPC,UCC/EAN128, ISBN, ISBT, Code 11, Code 39, Code 93/93i, Code 128, Interleaved, Matrix, Instustrial, Standard 2 of 5, Codabar, MSI, Plessey, Telepen, Postal codes, GS1 DataBar

2D Symbologies
Data Matrix, Data Matrix Inverse, PDF417, Micro PDF 417, Maxicode, QR code, QR code Inverse, Aztec (& Inverse), EAN. UCC composite, MicroQR code

CE, FCC and RoHs compliant  CE

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