Honeywell

CM4680 2D Imager Module

Quick Start Guide

CM4680-EN-QS Rev a
6/21

What is the CM4680 2D Imager Module

The CM4680 is an encased compact 2D imager module for fixed mount applications.

The CM4680 2D imager module includes the following features:

- USB interface (micro USB connector)
- Exit window
- Beeper
- Status indicator
- Mounting holes for multiple mounting positions
- Sealed enclosure

Required Accessories (not provided)

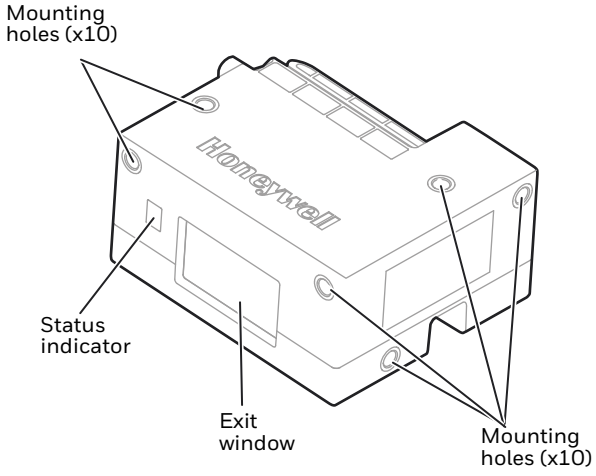
- Standard USB cable (USB-A to micro USB). Maximum recommended length is 3-5 meters.

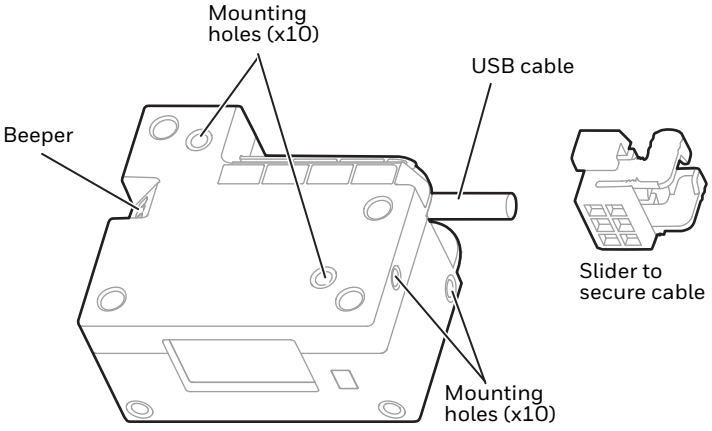
Additional Documentation

The following document is available from your local Honeywell OEM representative:

- *N4680/CF4680/CM4680 User Guide*

CM4680 2D Imager Module Views

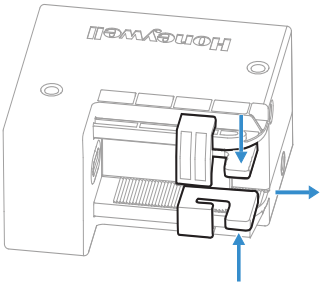



Mounting
holes (x10)
USB cable
Beeper
Slider to
secure cable
Mounting
holes (x10)

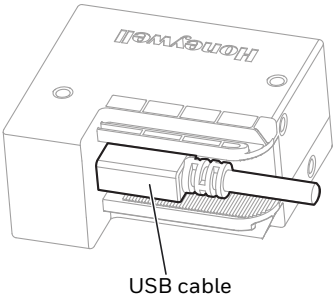
Connecting to a Host

By default, the scanner is in USB serial interface.

1. Remove slider from module by pressing the ends and sliding it off.



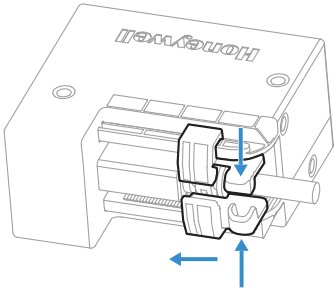
2. Connect a standard USB cable (standard USB-A to micro USB) to the module.



3. Secure the cable to the module using the slider:

   Place the cable through the center of the slider.

   Press the ends of the slider and slide it back on to the module until tight.



4. Connect the USB cable to the host.
5. Power-up the host.

   The scanner powers up, emits a series of beeps from low to high, and lighting turns on.

Note: *The host does not have to be powered down before plugging in the device. It can be hot plugged.*

Configuration

You can configure your scanner two ways:

- Reading configuration bar codes
- Using the EZConfig Cloud for Scanning tool

Configuration Bar Codes

Scan configuration bar codes to set up your scanner. All available configuration bar codes are available in the *N4680/CF4680/CM4680 User Guide*. Contact your local Honeywell OEM representative for more information.

EZConfig for Scanning Tool

Use the EZConfig for Scanning tool to configure your scanner Online:

1. Go to the Honeywell https://hsmftp.honeywell.com.
2. Register (if you haven't already), then login.
3. Browse to **Software** > **Barcode Scanners** > **Software** > **Tools and Utilities** > **EZConfig for Scanning** > **Current** and download the tool.
4. Open EZConfig to configure your scanner.

Basic Setup

Here are some basic menu bar codes that may be useful for testing. For more setup options see the *N4680/CF4680/CM4680 User Guide* (available from your local Honeywell OEM representative).

Note: *The * symbol indicates the default value.*

Interface

For USB serial interface, you must install the USB driver before connecting your scanner. You can find the most current USB driver at hsmftp.honeywell.com.

USB Serial Interface *

USB PC Keyboard

Keyboard Country Layout

the default keyboard is United States.

United States *

French

German

Italian

Beeper Volume

Low

Medium

High *

Off

Presentation Mode

The scanner LEDs remain dim and aimer off until a movement is detected, then the aimer turns on and LEDs light up to read the bar code.

There are 2 types: **Presentation Mode** or **Presentation Mode—Extended Reading Range**.

***Presentation Mode**: Optimized scan speed, limited reading range.*

Presentation Mode *

***Presentation Mode—Extended Reading Range**: Optimized reading range, low scan speed.*

Presentation Mode—Extended Reading Range

Mobile Phone Read Mode

When this mode is selected, your scan engine is optimized to read barcodes from mobile phones or other LED displays.

Streaming Presentation - Mobile Phone

Streaming Presentation

The scanner LEDs are on all the time (continuous) and the aimer is off until a movement is detected, then the aimer turns on to read the bar code.

There are 2 types: **Normal** or **Enhanced**.

Streaming Presentation—Normal*: Fast scan speed, limited reading range.*

Streaming Presentation Mode—Normal

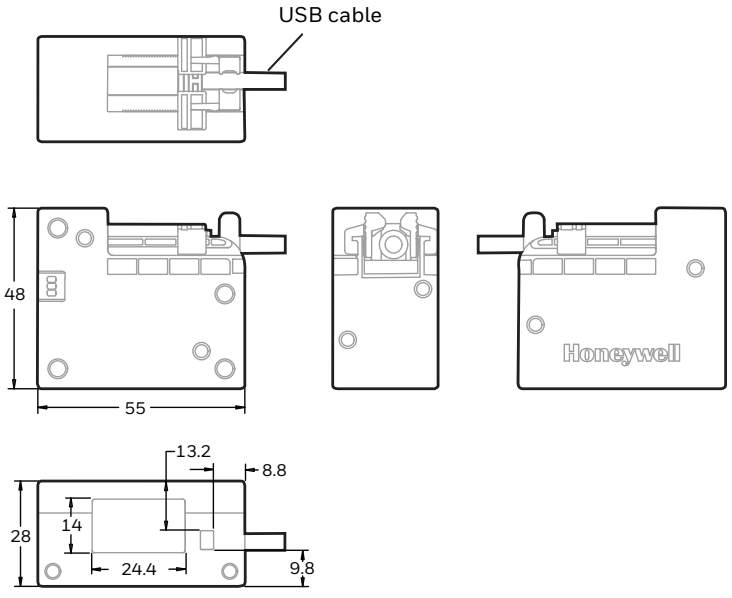
Streaming Presentation—Enhanced*: Fastest possible scan speed, slightly less reading range than* ***Normal Streaming Presentation*** *mode.*

Streaming Presentation—Enhanced

Reset Factory Defaults

The following bar code resets factory defaults.

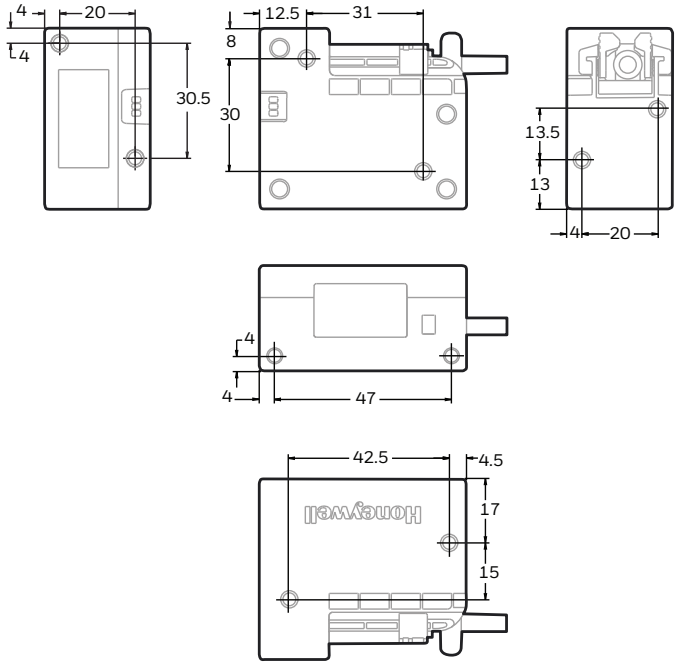
Mechanical Dimensions



Units are in millimeters. Tolerances: ±0.5 mm.

Mounting Holes

Use M3 screws with a maximum depth of 5.8 mm/0.23 in. Max torque 4.5kgf.cm/3.9 lbf.in and pull out resistance 736N.



Units are in millimeters. Tolerances ±0.5 mm.

Recommendations

- Do not add an exit window over the existing exit window.
- For best beeper performance, do not fully cover the beeper opening.
- Be sure the cable is fitted tightly in the connector using the cable slider. The cable over mold should not be more than 23 mm/0.90 in.

Technical Specifications

Mechanical	
Dimensions	28 mm x 55 mm x 48 mm (1.10 in x 2.17 in x 1.89 in])
Weight	50 g ±5 g
Interface	USB 2.0

Electrical	
Input Voltage	5 VDC ±0.25V
Standby Current	110 mA
Operating Current	220 mA

Environmental	
Operating Temperature	-30°C to 60°C /-22°F to 140°F

Environmental	
Storage Temperature	-40°C to 85°C / -40°F to 185°F
Humidity	5% to 95% RH, non-condensing

Scanning Performance	
Sensor	Global Shutter
Resolution	640 x 480
Illumination	White LED Illumination
Aimer	625 nm visible red LED
Motion Tolerance	6 m/s max
Field of View	Horizontal = 40° ±1° Vertical = 30° ±1°
Scan Angle	Pitch = ±50° Skew = ±50° Tilt = 360°
Print Contrast	20%

Reading Distances

- Measured from the front center of the housing
- 25°C, 200 lux for typical, 0 lux for guaranteed
- Photographic barcodes
- Serial Trigger mode

Typical

Symbology	Near	Far
13 mil UPC-A	4.3 cm / 1.7 in	38.5 cm / 15.2 in
10 mil Code 39	3.3 cm / 1.3 in	35.5 cm / 14 in
20 mil Code 39	6.8 cm / 2.7 in	74.2 cm / 29.2 in
20 mil QR Code	3.3 cm / 1.3 in	36.2 cm / 14.3 in

Guaranteed

Symbology	Near	Far
13 mil UPC-A	4.7 cm / 1.9 in	37 cm / 14.6 in
10 mil Code 39	4.0 cm / 1.6 in	33.8 cm / 13.3 in
20 mil Code 39	7.2 cm / 2.8 in	68.3 cm / 26.9 in
20 mil QR Code	4.2 cm / 1.7 in	34.2 cm / 13.5 in

Customer Support and Technical Assistance

For customer support, contact your local Honeywell Sales Representative or fill out the support form at sps.honeywell.com/us/en/contact-us.

Limited Warranty

For warranty information, go to sps.honeywell.com/us/en/support/productivity/warranties.

Patents

For patent information, see sps.honeywell.com/us/en/support/patents.

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