



## Honeywell CM4680 2D Imager Module User Guide

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## 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)

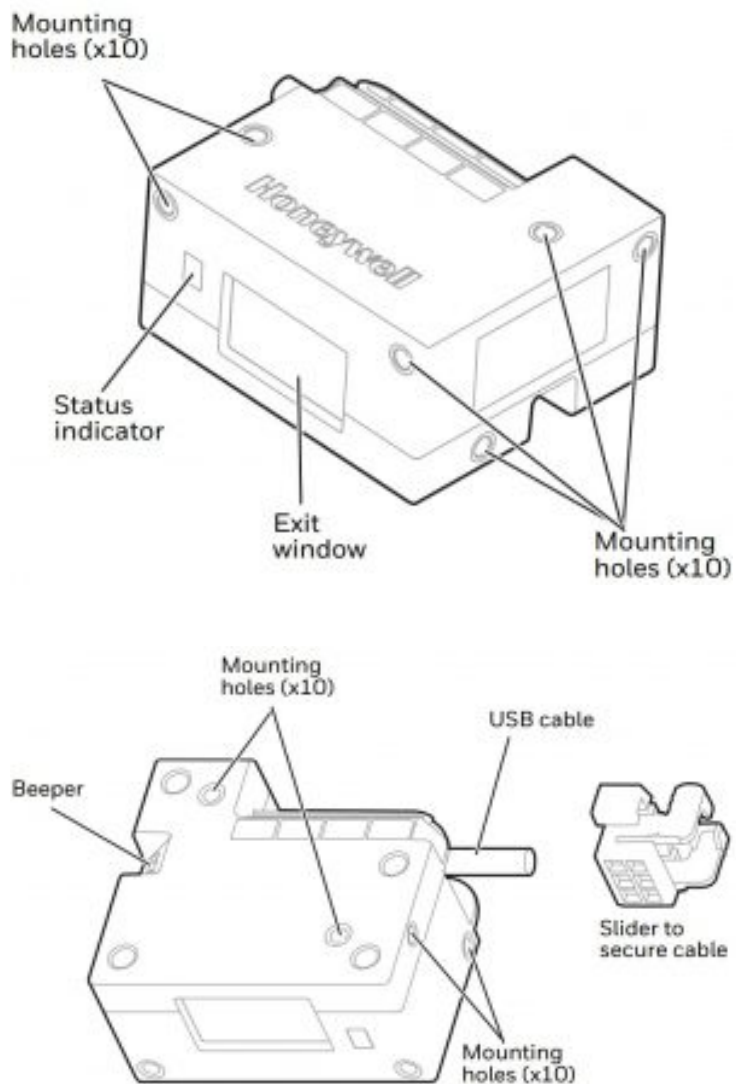
- Standard USB cable (USB-A to micro USB). Maximum recommended length is 3-5 meters.

## Additional Documentation

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

- N4680/CF4680/CM4680 User Guide.

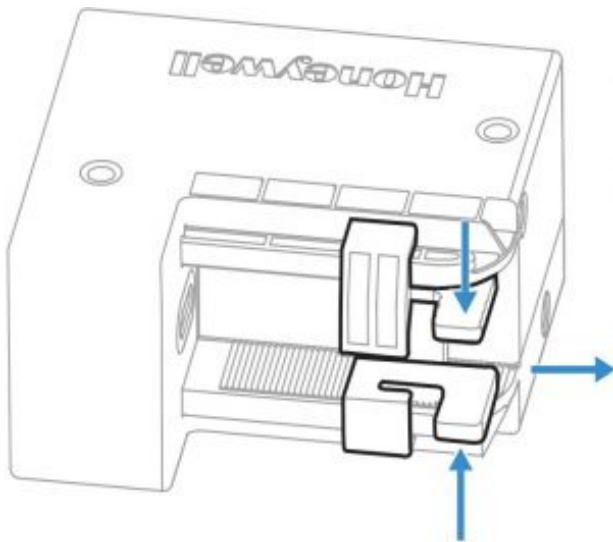
## CM4680 2D Imager Module Views



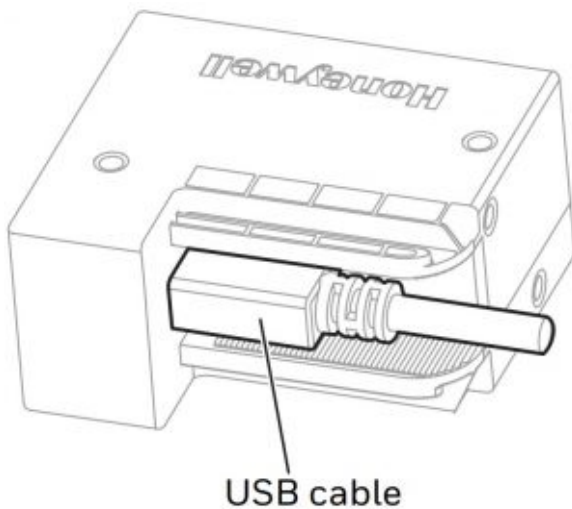
## Connecting to a Host

By default, the scanner is in USB serial interface.

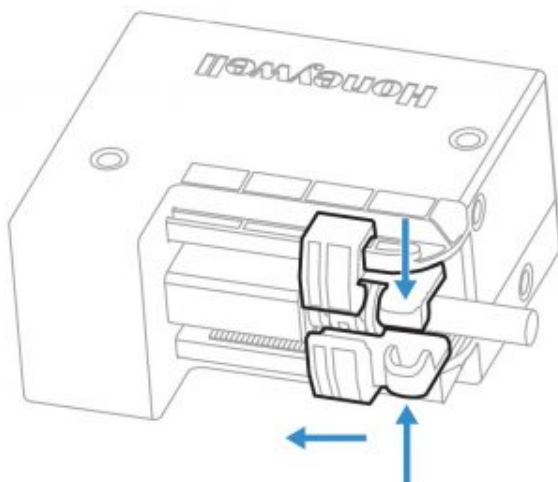
1. Remove slider from module by pressing the ends and sliding it off.



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](https://hsmftp.honeywell.com).

- **USB Serial Interface \***



- **USB PC Keyboard**



## Keyboard Country Layout

the default keyboard is United States.

- **United States**



KBDCTY0.

- French



KBDCTY3.

- German



KBDCTY4.

- Italian



KBDCTY5.

#### Beeper Volume

- Low



BEPLVL1.

- Medium



BEPLVL2.

- High



BEPLVL3.

- Off



BEPLVL0.

#### 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.



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



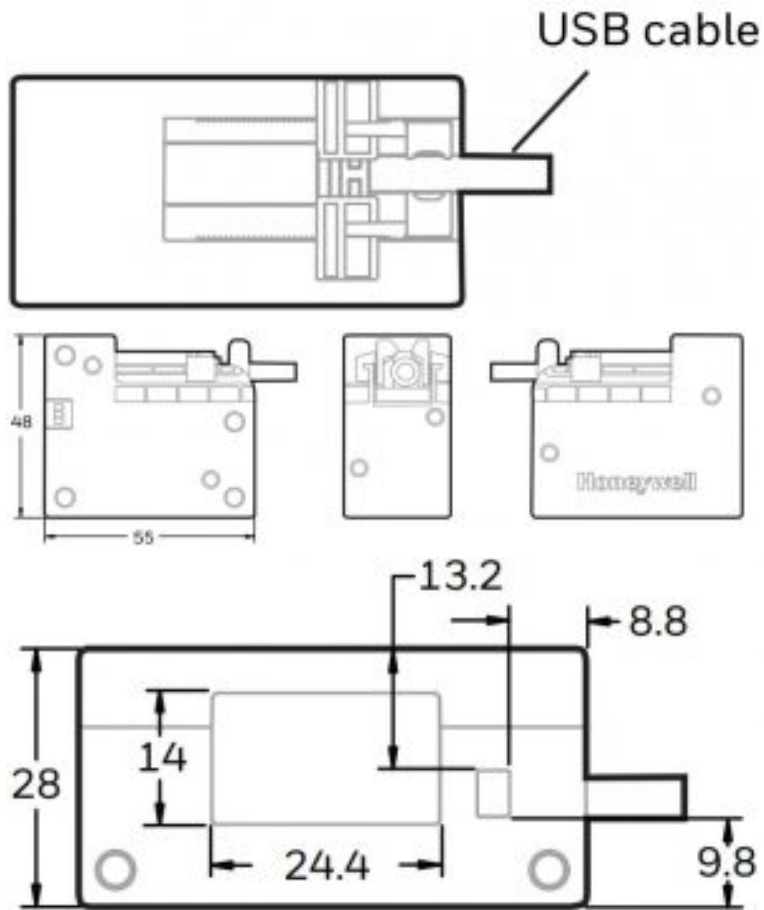
#### **Reset Factory Defaults**

The following bar code resets factory defaults.



DEFAULT.

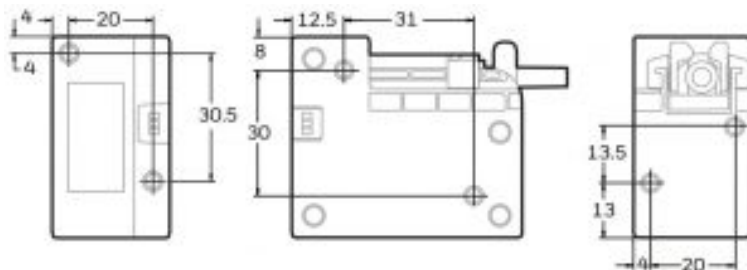
## Mechanical Dimensions



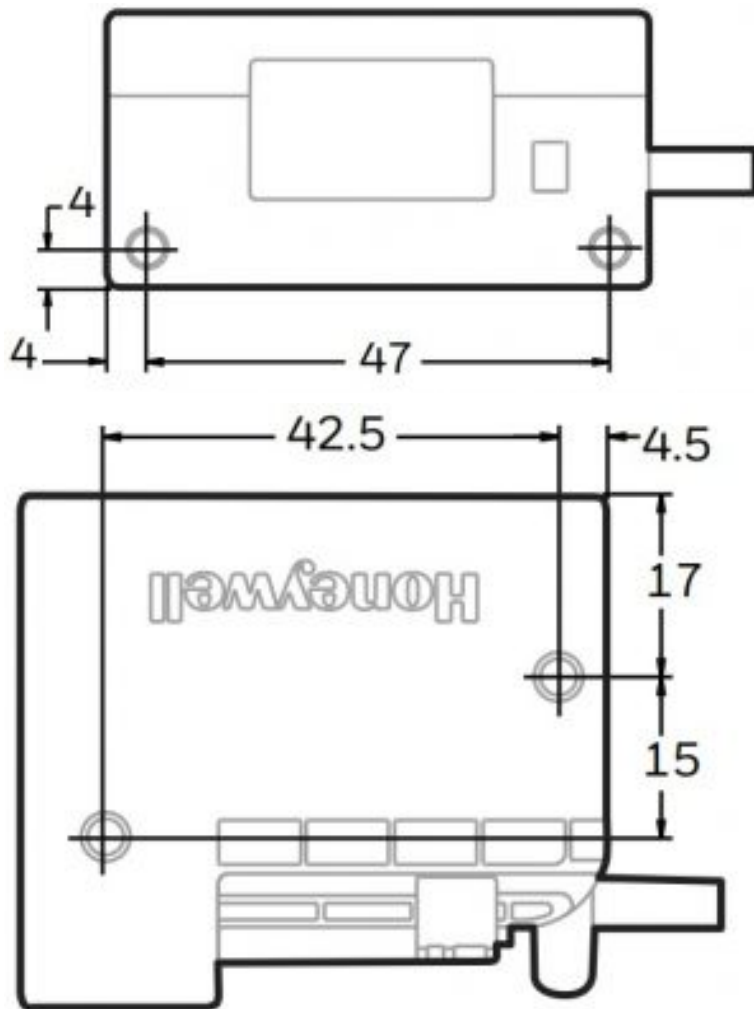
*Units are in millimeters. Tolerances:  $\pm 0.5$  mm.*

## 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  $\pm 0.5$  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<br>(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 = $40^{\circ} \pm 1^{\circ}$<br>Vertical = $30^{\circ} \pm 1^{\circ}$ |
| Scan Angle           | Pitch = $\pm 50^{\circ}$<br>Skew = $\pm 50^{\circ}$<br>Tilt = $360^{\circ}$      |
| 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

| <b>Symbology</b> | <b>Near</b>     | <b>Far</b>        |
|------------------|-----------------|-------------------|
| 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**

| <b>Symbology</b> | <b>Near</b>     | <b>Far</b>        |
|------------------|-----------------|-------------------|
| 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](https://sps.honeywell.com/us/en/contact-us).

#### **Limited Warranty**

For warranty information, go to [sps.honeywell.com/us/en/support/ productivity/warranties](https://sps.honeywell.com/us/en/support/productivity/warranties).

#### **Patents**

For patent information, see [sps.honeywell.com/us/en/support/patents](https://sps.honeywell.com/us/en/support/patents).

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Documents / Resources

|                                                                                     |                                                                                                                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <a href="#">Honeywell CM4680 2D Imager Module</a> [pdf] User Guide<br>CM4680, 2D Imager Module                                                 |
|  | <a href="#">Honeywell CM4680 2D Imager Module</a> [pdf] User Guide<br>CM4680, 2D Imager Module, CM4680 2D Imager Module                        |
|  | <a href="#">Honeywell CM4680 2D Imager Module</a> [pdf] User Guide<br>CM4680, 2D Imager Module, CM4680 2D Imager Module, Imager Module, Module |

References

- [🌐 Ibf – Learn by fun](#)
- [H Sign On](#)
- [H Products - Advanced Sensing Technologies | Honeywell](#)
- [H Productivity Warranties | Honeywell](#)