Presented by: Absolute Gauge Technologies
sales@absolutegauge.com; www.absolutegauge.com,
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008

# MV-CL162-91CM

## 16384 P Camera Link Line Scan Camera



## Introduction

MV-CL162-91CM camera adopts CMOS sensor to provide high quality images and uses Camera Link interface to transmit images in real time, and its basic line rate reaches 50 kHz (80-bit) in full resolution. It adopts multiple ISP technologies like noise reduction, and supports external trigger modes like line trigger, frame trigger, and trigger-width exposure.

## Key Feature

- Adopts multiple ISP technologies and supports manual adjustment for Gamma correction, FFC correction, LUT, black level, etc.
- Supports multiple exposure, image acquisition modes, and TDI function.
- Supports bi-directional I/O wiring for input/output settings.
- Compact design and flexible installation.
- Compatible with Camera Link V2.0 Protocol, GenICam Standard.

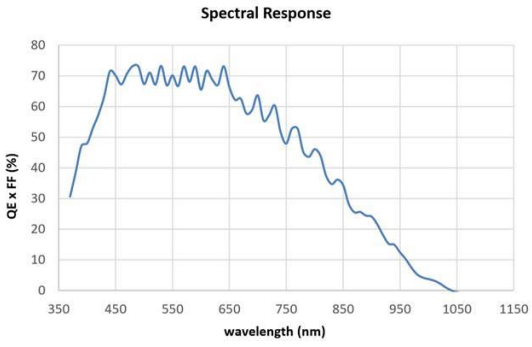
## Available Model

MV-CL162-91CM

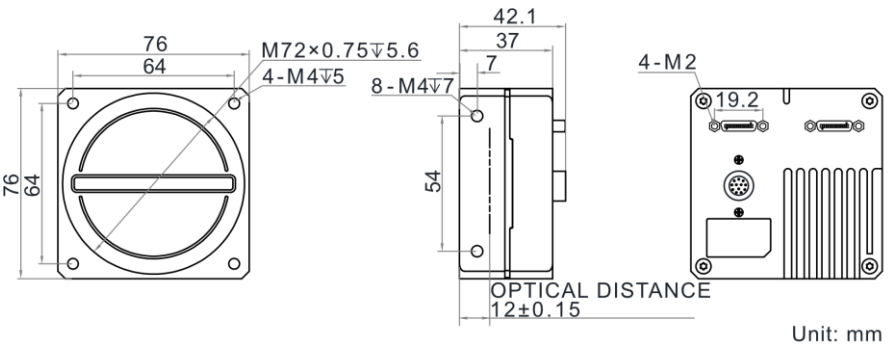
## Applicable Industry

New energy, screen detection, consumer electronics, metallurgy.

## Sensor Quantum Efficiency




## Dimension



HIKROBOT

# Specification

| Model | MV-CL162-91CM |
|---|---|
| ***Performance*** | |
| **Sensor type** | CMOS |
| **Pixel size** | 3.5 μm × 3.5 μm |
| **Resolution** | 16384 × 2 |
| **Image mode** | Supports 1-line, 2-TDI |
| **Max. line rate** | Full resolution: 10 kHz (Base), 20 kHz (Medium), 40 kHz (Full), 50 kHz (80-bit)<br>Improve line rate via Binning: 71 kHz @1-line (full resolution), 60 kHz @2-TDI (full resolution)<br>Improve line rate via ROI: 120 kHz @1-line (6820 resolution and below), 60 kHz @2-TDI (13650 resolution and below) |
| **Configuration mode** | Base, Medium, Full, 80-bit |
| **Tap geometry** | 1 × 2, 1 × 4, 1 × 8, 1 × 10 |
| **Tap number** | 2 Taps, 4 Taps, 8 Taps, 10 Taps |
| **Pixel clock** | 40 MHz, 66 MHz, 80 MHz, 85 MHz |
| **Dynamic range** | 56.7 dB |
| **SNR** | 37 dB |
| **Gain** | Supports 1.0 × |
| **Exposure time** | 3 μs to 10 ms |
| **Exposure mode** | Off/ Once/ Continuous exposure mode; supports fixed time exposure, trigger-width exposure |
| **Mono/color** | Mono |
| **Pixel format** | Mono 8/10/12 |
| **Binning** | Supports 1 × 1, 1 × 2, 1 × 4, 2 × 1, 2 × 2, 2 × 4, 4 × 1, 4 × 2, 4 × 4 |
| **Reverse image** | Supports horizontal reverse image output |
| **Trigger mode** | External trigger, internal trigger |
| **External trigger mode** | Line trigger, frame trigger, line + frame trigger |
| ***Electrical features*** | |
| **Data interface** | Camera Link (SDR connector); USB interface for updating firmware |
| **Digital I/O** | 12-pin P10 connector provides power and I/O: configurable input/output × 4 (Line 0/1/3/4) and support single-ended/differential. Camera Link provides I/O (CC1/CC2/CC3/CC4). |
| **Power supply** | 12 VDC to 24 VDC |
| **Power consumption** | Typ. 9.8 W @12 VDC |
| ***Mechanical*** | |
| **Lens mount** | M72*0.75, optical back focal length: 12 mm (0.5"), applicable to F-mount via lens adapter |
| **Dimension** | 76 mm × 76 mm × 42.1 mm (3.0" × 3.0" × 1.7") |
| **Weight** | Approx. 320 g (0.7 lb.) |
| **Ingress protection** | IP40 (under proper lens installation and wiring) |
| **Temperature** | Working temperature: -20 °C to 55 °C<br>Storage temperature : -30 °C to 80 °C |
| **Humidity** | 5% to 90% RH, non-condensing |
| ***General*** | |
| **Client software** | MVS and frame grabber software meeting with Camera Link Protocol |
| **Operating system** | 32/64-bit Windows 7/10 |
| **Compatibility** | Camera Link V2.0, GenICam |
| **Certification** | CE, RoHS2.0, KC |