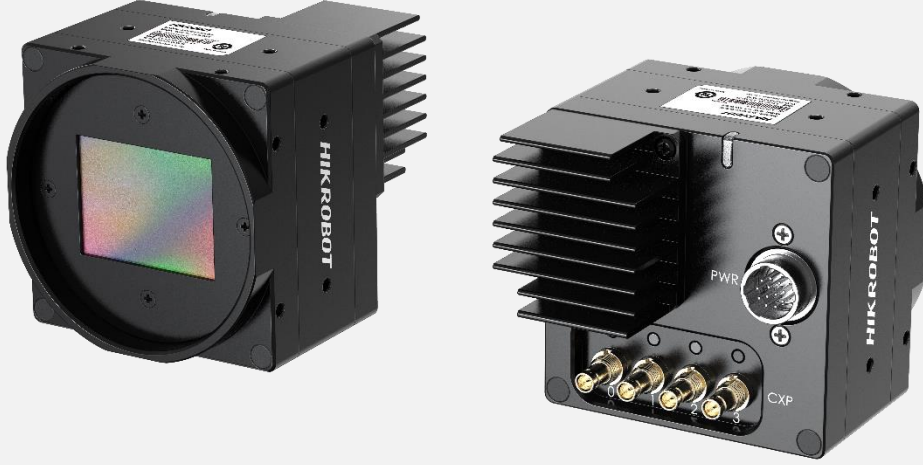


## MV-CH120-40XM

12 MP CMOS CoaXPress Area Scan Camera



GEN<i>i</i>CAM

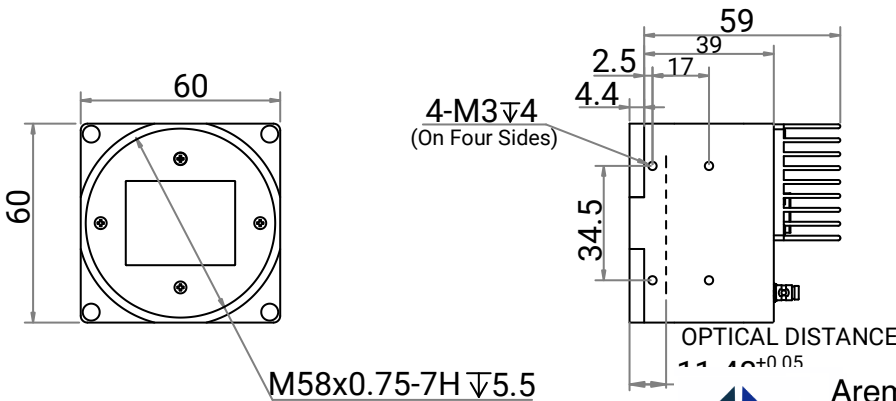
### Introduction

MV-CH120-40XM camera adopts CMOS sensor to provide high-quality images. It uses CXP-6 interface to transmit non-compressed images in real time, and its max. frame rate can reach 188 fps in full resolution.

### Key Feature

- Resolution of 4096 × 3072, pixel size of 5.5 μm × 5.5 μm.
- Adopts global shutter CMOS sensor to provide high dynamic range, SNR, and high-quality images.
- Supports LSC sequencer polling function.
- Adopts CXP-6 interface to transmit data.
- Compatible with CoaXPress Protocol and GenICam Standard.

### Dimension



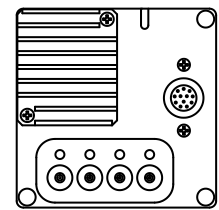
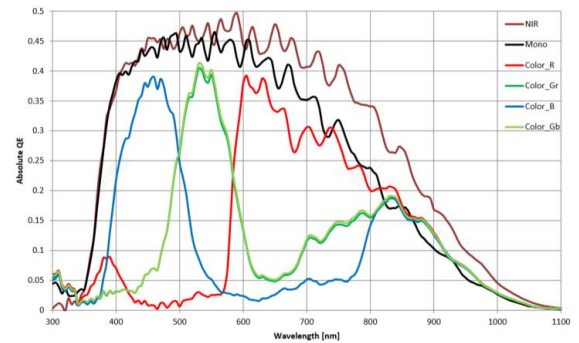
### Available Model

MV-CH120-40XM-M58S-NN

### Applicable Industry

Electronics, semiconductor, PCB AOI, 3D application, motion capture, etc.

### Sensor Quantum Efficiency



Unit: mm

**Aremak Bilişim Teknolojileri**  
Endüstriyel Görüntü İşleme Çözümleri

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İç Kapı No:1260, Çankaya, Ankara/Türkiye

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T: +908502551506



## Specification

<b>Model</b>	<b>MV-CH120-40XM</b>
<b>Performance</b>	
<b>Sensor type</b>	CMOS, global shutter
<b>Sensor model</b>	AMS CMV12000
<b>Pixel size</b>	5.5 $\mu\text{m}$ $\times$ 5.5 $\mu\text{m}$
<b>Sensor size</b>	22.5 mm $\times$ 16.9 mm
<b>Resolution</b>	4096 $\times$ 3072
<b>Max. frame rate</b>	188 fps @4096 $\times$ 3072 Mono 8
<b>Dynamic range</b>	55.2 dB
<b>SNR</b>	39.5 dB
<b>Gain</b>	Supports 1.0 $\times$ , 2.0 $\times$ , 3.0 $\times$ , 4.0 $\times$
<b>Exposure time</b>	20 $\mu\text{s}$ to 10 sec
<b>Exposure mode</b>	Off/Once/Continuous exposure mode
<b>Mono/color</b>	Mono
<b>Pixel format</b>	Mono 8/10
<b>Binning</b>	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
<b>Decimation</b>	Supports 1 $\times$ 1, 1 $\times$ 2, 1 $\times$ 4, 2 $\times$ 1, 2 $\times$ 2, 2 $\times$ 4, 4 $\times$ 1, 4 $\times$ 2, 4 $\times$ 4
<b>Reverse image</b>	Supports horizontal and vertical reverse image output
<b>Electrical features</b>	
<b>Data interface</b>	CoaXPress with DIN interface
<b>Digital I/O</b>	12-pin P10 connector provides power and I/O, including opto-isolated input $\times$ 1 (Line 0), opto-isolated output $\times$ 1 (Line 1), bi-directional non-isolated I/O $\times$ 1 (Line 2), and RS-232 $\times$ 1.
<b>Power supply</b>	12 VDC to 24 VDC, CXP-1 and CXP-2 support PoCXP
<b>Power consumption</b>	Typ. 11.6 W@12 VDC
<b>Mechanical</b>	
<b>Lens mount</b>	M58*0.75, flange focal length 11.48 mm (0.5")
<b>Dimension</b>	60 mm $\times$ 60 mm $\times$ 59 mm (2.4" $\times$ 2.4" $\times$ 2.3")
<b>Weight</b>	TBD
<b>Ingress protection</b>	IP40 (under proper lens installation and wiring)
<b>Temperature</b>	Working temperature: 0 $^{\circ}\text{C}$ to 32 $^{\circ}\text{C}$ (32 $^{\circ}\text{F}$ to 89.6 $^{\circ}\text{F}$ ) Storage temperature: -30 $^{\circ}\text{C}$ to 80 $^{\circ}\text{C}$ (-22 $^{\circ}\text{F}$ to 176 $^{\circ}\text{F}$ )
<b>Humidity</b>	20% to 95% RH, non-condensing
<b>General</b>	
<b>Client software</b>	MVS or frame grabber software meeting with CoaXPress Protocol
<b>Operating system</b>	32/64-bit Windows 7/10, 64-bit Windows 11, 32/64-bit Linux, 64-bit MacOS
<b>Compatibility</b>	CoaXPress, GenICam
<b>Certification</b>	CE, RoHS, KC

