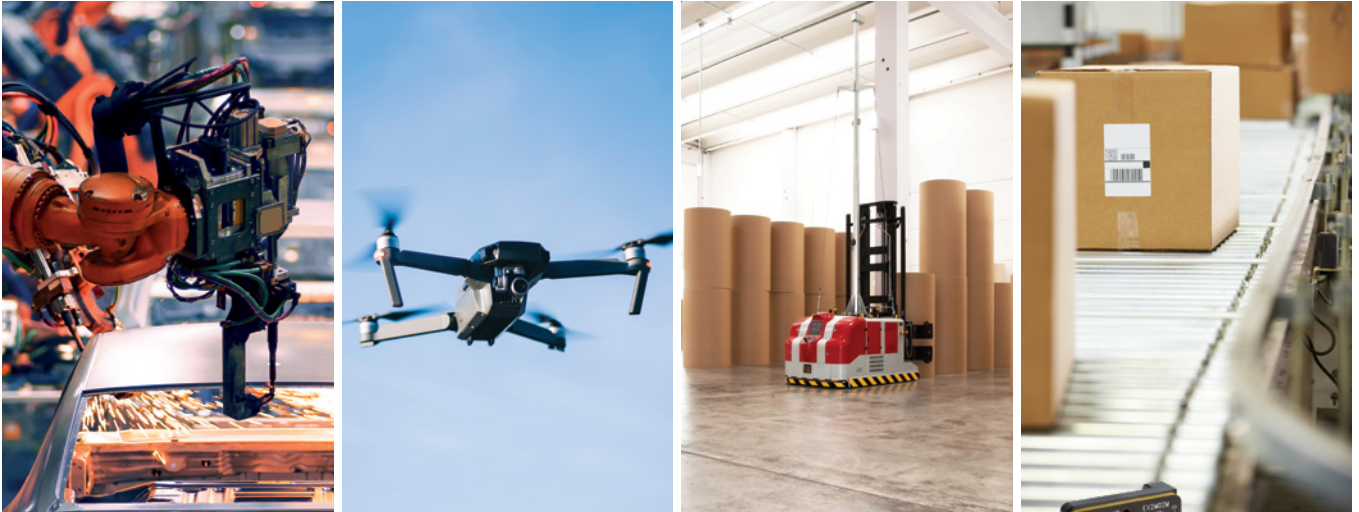


# 2M Multi-Focus MIPI Module

## An Extended Range Imaging Solution



The 2M **multi-focus, global shutter, MIPI module** is the ideal vision extension to provide sharp images at high speed over extended depth-of-field with significantly reduced system illumination requirements.

### KEY FEATURES

**Fast auto-focus** MEMS-based technology combined with **wide aperture f/4.85 lens**

**Ultra compact and lightweight design**  
20 x 20 x 16.63 mm, 3.7g

Featuring an advanced **full HD, global shutter, low noise CMOS sensor**

**MIPI CSI-2 output**  
with selectable 1, 2 or 4 lanes

### BENEFITS

**Extended working range** due to a novel 3-stop macro focus system with a robust autofocus optic

**Extended system battery autonomy**  
with minimal size, weight and power

Excellent SNR at low light enabling **illumination system cost savings**

**Fast time-to-market with embedded vision systems** using a ready to capture vision extension to MIPI ISP/CPU boards



## CHARACTERISTICS

<b>MODULE</b>	<b>Resolution</b>	2.0 MP
	<b>Size</b>	20 x 20 x 16.63 mm
	<b>Weight</b>	< 3.7 g
	<b>Output</b>	MIPI CSI-2
	<b>Control interface</b>	I <sup>2</sup> C
	<b>Connector</b>	37-pin FPC
	<b>Power consumption</b>	< 280 mW
<b>SENSOR</b>	<b>Pixel array</b>	1920 (H) x 1080 (V)
	<b>Aspect ratio</b>	16 : 9
	<b>Pixel type / size</b>	Global Shutter / 2.8µm
	<b>Dynamic range</b>	68 dB 100+ dB (HDR)
	<b>Readout noise</b>	2.8 e-
	<b>SNR max</b>	38 dB
	<b>Frame rate at full resolution</b>	115fps @8b   80fps @10b   60fps @12b
<b>QE @550nm</b>	65 %	
<b>LENS</b>	<b>Effective Focal Length</b>	7.2mm
	<b>Aperture – F/#</b>	4.85
	<b>FOV (D / H / V)</b>	40° / 35° / 45°
	<b>Autofocus response time</b>	<1ms
	<b>Distortion</b>	-1%
	<b>Relative illumination</b>	70%
	<b>Working Distance</b>	10cm to infinity

## TYPICAL APPLICATIONS

- » Scanning
- » Logistics & smart retail
- » Factory & laboratory automation
- » Robotics
- » Security
- » Drones/UAVs

## ORDER CODES – MULTI-FOCUS 2M MIPI MODULE

	WITH NIR-CUT FILTER
<b>B&amp;W</b>	EV2M02MB-OM215A0-B
<b>COLOR</b>	EV2M02MC-OM215A0-B

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