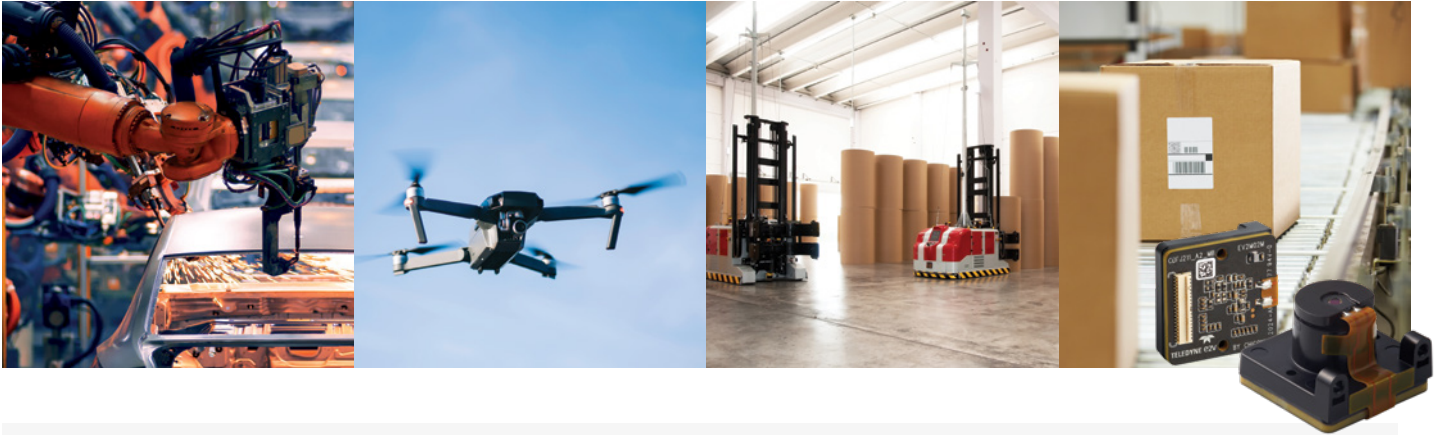


2M MULTI-FOCUS MIPI MODULE AN EXTENDED RANGE IMAGING SOLUTION



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.

SENSOR 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, 3.7 g

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

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

CUSTOMER 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



Sensor Characteristics

Module	Resolution	2.0 MP
	Size	20 x 20 x 16.63 mm
	Weight	< 3.7 g
	Output	MIPI CSI-2
	Control interface	I ² C
	Connector	37-pin FPC
	Power consumption	< 280 mW
Sensor	Pixel array	1920 (H) x 1080 (V)
	Aspect ratio	16 : 9
	Pixel type / size	Global Shutter / 2.8 μm
	Dynamic range	68 dB 100+ dB (HDR)
	Readout noise	2.8 e-
	SNR max	38 dB
	Frame rate at full resolution	115 fps @8b 80 fps @10b 60 fps @12b
	QE @550nm	65 %
Lens	Effective Focal Length	7.2 mm
	Aperture – F/#	4.85
	FOV (D / H / V)	40° / 35° / 45°
	Autofocus response time	<1 ms
	Distortion	-1%
	Relative illumination	70%
	Working Distance	10 cm 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&W	EV2M02MB-OM215A0-B
COLOR	EV2M02MC-OM215A0-B