

TAMRON

*Aegis*  
ELECTRONIC GROUP, INC



## Optical 30x zoom Camera Module with a Global Shutter CMOS Sensor



Model: MP2030M-GS

### Featuring Global Shutter CMOS Image Sensor

Possible to prevent intrinsic distortion of the focal plane when capturing images of fast-moving objects

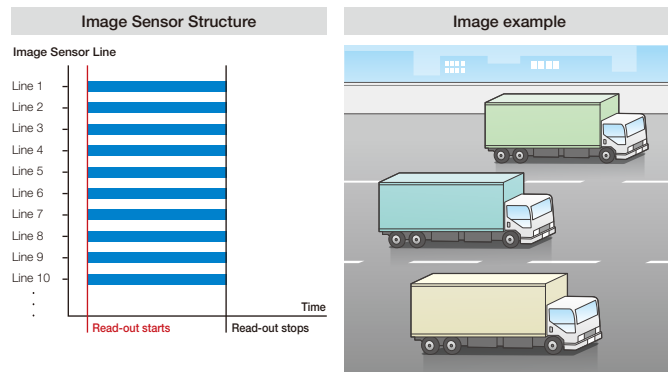
### Built-in High Power Zoom Lens (Optical 30x)

### Full HD High Picture Quality(1920x1080, 60fps)

# Featuring Global Shutter CMOS Image Sensor

## Global Shutter CMOS Sensor

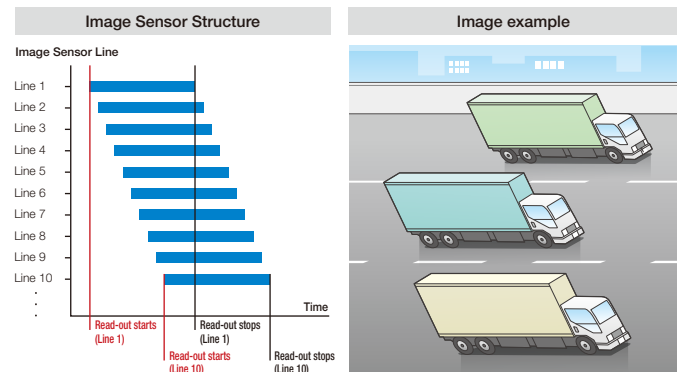
<MP2030M-GS>



A "Global Shutter CMOS Image Sensor" allows capturing target images without any artifacts by running the scan on all the scan-lines simultaneously. "Global Shutter CMOS Sensor" that effectively eliminates the imaging artifact with excellent image rendition of fast moving objects.

## Rolling Shutter CMOS Sensor

<General Camera Module>



A "Rolling Shutter CMOS Sensor," as employed in general camera modules, captures target images sequentially from upper to lower scan-lines; artifacts are incurred on fast moving objects (focal plane distortion) due to the sequential delay to run each scan.

## Built-in High Power Zoom Lens (30x)

Features optical 30x zoom lens to expand the potential for various applications

## Full HD High Picture Quality

Supports High Picture Quality Full HD (1920 x 1080,60fps) that is popular in Surveillance market

### MP2030M-GS specifications

Supports various functions

\*Still Picture Random Trigger: able to capture Still Picture synchronized with external trigger

\*Camera Functions: WDR(Gamma Type) / E.I.S.(Electronic Image Stabilization) / Defog etc

#### Camera

Image sensor	1/1.8" type CMOS (Progressive Scan)
Pixel Output (H x V)	1920 x 1080, 1280 x 720
Signal system(HD)	1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/25 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/50
Signal system(SD)	NTSC / PAL
Minimum illumination	0.2 lx (50% Video Level, F/1.6, 1/30sec, Color) 0.03 lx (50% Video Level, F/1.6, 1/30sec, B&W)
Recommended illumination	100 lx to 100,000 lx
Gain	0 - 48dB (25 steps)
Shutter speed	1/1 to 1/10,000 sec (22 steps)
Sync system	Internal
Exposure compensation	-12dB to +12dB (Total 13 steps)
Backlight compensation	ON / OFF
Gamma	Normal / Straight / Narrow / Wide (4 modes)
Aperture control	16 steps
White balance	ATW / Manual / One push / Indoor / Outdoor
AE (Auto exposure mode)	Auto / Manual / Shutter Priority / Iris Priority
Lens (wide to tele)	30x optical zoom f=6.5 to 195.0 mm F/1.6 to 5.3
Zoom movement speed (wide to tele)	7.0 sec (Focus Tracking ON)
Digital Zoom	Up to 16 x
Focusing system	Auto, Manual, One push, AF sensitivity
Horizontal viewing angle (wide to tele)	54.0° to 2.0° (INF)
Minimum object distance	0.3m (Wide) 1.5m (Tele)

\*Specifications and design subject to change without notice

#### General

Power requirement	9 V to 12 V DC
Power consumption	Approx. 5W (under zooming and focusing operation)
Recommended temperature	0°C to +40°C
Operating temperature	-5°C to +60°C
Storage temperature	-40°C to +60°C
Dimensions (W x H x D)	55 x 62.3 x 125 mm
Weight	Approx. 370g

#### Interface

Video output (HD)	Digital: Y / Pb / Pr 4:2:2 (LVDS)
Video output (SD)	Analog: NTSC / PAL (CVBS: 1.0Vp-p) * for monitor output
Camera control interface	VISCA protocol *VISCA is a trademark of Sony Corporation.

#### Functions

E.I.S. (Electrical Stabilizer)	Available
Wide-D (Gamma)	Available
BLC (Back Light Compensation)	Available
Day/Night (ICR)	ON / OFF / AUTO
Auto Slow Shutter	Max 1sec
Defog	Available
Noise reduction (3D + 2D)	Available
Digital output	Available
Privacy zone masking	Available
Slow shutter	Available
Picture effects	B & W, Freeze, upside down, rotation
External Trigger(still image)	Available
Spot compensation	Available
Teamperature readout	Available
Title Display	Available (1line: 20text, Max 20lines)

# TAMRON

Manufacturer of precise and sophisticated optical products for a broad range of industries.

- The content of this catalog is current as of June 2019.
- Product specifications, appearance and performance are subject to change without notice.



#### Management on Quality and Environment

Tamron is certified with international standards: ISO 9001 for quality and ISO14001 for environmental management at its headquarters, domestic sales offices, China plant as well as three production facilities in Aomori, Japan, and is fully committed to striving for continued and sustainable improvement at all levels and facets of its business operations.

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