TAMRON

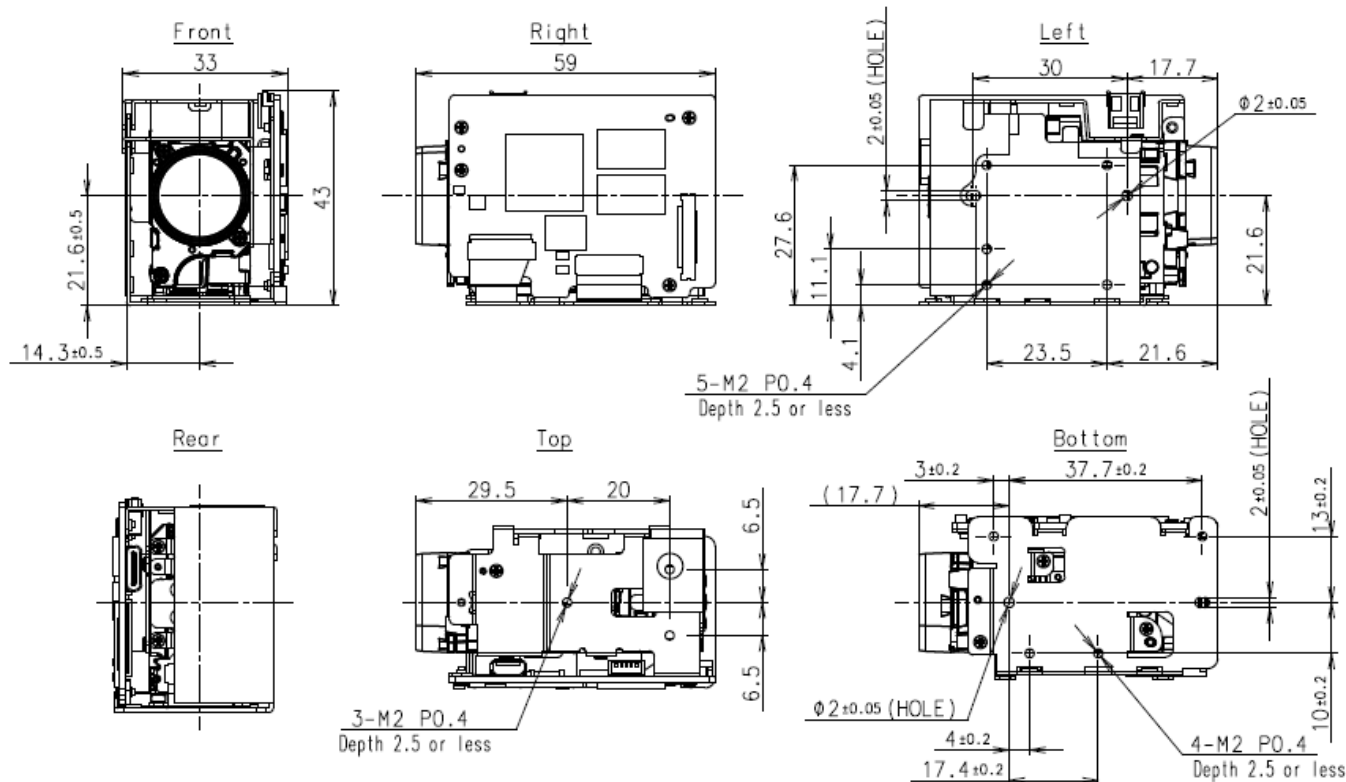## Compact and Lightweight Camera Module MP3010M-EV

Overview
・Full upgrading compatibility with the previous models of MP1010/MP1110 series
・Equipped with industry-leading compact 10x zoom lens
・New functions for the various applications (High sensitivity, Day/Night function, Multi-interface, etc.)

Specifications

■Camera

Image sensor	Sony's CMOS image sensor with STARVIS™ technology
	STARVIS is trademark of Sony Group corporation or its affiliates.
Pixel output (H x V)	1920 x 1080, 1280 x 720
Signal system (HD)	1080p/60, 1080p/59.94, 1080p/50, 1080p/30,
	1080p/29.97, 1080p/25,
	720p/60, 720p/59.94, 720p/50, 720p/30, 720p/29.97, 720p/25
Signal system(SD)	NTSC/PAL
Minimum illumination	0.1 lx (1/30sec, F/1.8, 50%, Color, Typical)
	0.025 lx (1/30sec, F/1.8, 50%, B&W, Typical)
Recommended illumination	100lx ～100,000lx
S/N	More than 50dB
Gain	Auto/Manual
Shutter speed	1/1～1/10,000 sec
Sync system	Internal
Exposure compensation	-12dB ～ +12dB (Total 13 steps)
Backlight compensation	ON/OFF
Gamma	standard/straight/narrow/wide
Aperture control	16 steps
White balance	ATW1(Narrow), ATW2(Wide), INDOOR, OUTDOOR, One push, Manual
AE (Auto exposure mode)	Auto, Manual, Priority mode (shutter/iris)
Lens (wide～tele)	10x optical zoom f =3.3～33.0mm F/1.8～3.4
Zoom mode	Standard/Variable/Direct
Zoom movement speed (wide to tele)	1.7 sec (Focus Tracking ON)
Digital Zoom	Up to 16x
Focusing system	Auto, Manual, One push, AF sensitivity
Horizontal viewing angle (wide to tele)	59.2° ～ 6.7° (※ except when EIS is operated)
Minimum object distance (wide to tele)	Visible light : 10mm(wide)～800mm(tele)
	850nm : 10mm(wide)～1200mm(tele)

■Interface

Video output (HD)	LVDS : Digital Y/Pb/Pr 4:2:2
	HDMI : Digital Y/Pb/Pr 4:2:2(HDMI Type D)
	※The Adopted Trademarks HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
Video output (SD)	CVBS 1.0V(p-p,75Ω)
Camera control interface	VISCA protocol *VISCA is a registered trademark of SONY Corporation

■Functions

EIS (Electronic Image Stabilization)	OFF/ON
Wide-dynamic range (Gamma)	OFF/ON
Day/Night (ICR)	OFF/ON/AUTO
Defog	OFF/ON (Level : 1～3)
Noise reduction (3D + 2D)	OFF/ON (Level : 1～5)
Privacy zone mask	Up to 8 places
Slow shutter	OFF/ON (Max 1sec)
Picture effects (Black White)	OFF/ON
Picture freeze	OFF/ON
Electronic Flip (E-Flip)	OFF/ON
Mirror image	OFF/ON
Temperature readout	available
Title display	OFF/ON
	(20 characters/line, max. 12 lines)

■General

Power requirement	DC 8～12±10%
Power consumption	Approx.2.5W (Approx.4.4W in the zoom and focus operation)
Recommended temperature	0～+40℃
Operating temperature	-5～+60℃
Storage temperature	-40～+60℃
Operating humidity	20%～80% (no condensation)
Storage humidity	20%～90% (no condensation)
Dimensions (W x H x D)	33 x 43 x 59 mm
Wight	Approx.70g

Dimensions
unit : mm

Model		Category	Issue	No
MP3010M-EV	Tamron Co., Ltd	camera module	2022/8/1	1/1