Industry-First* Embedded VC

Ultra-Compact Camera Module With Unrivaled Optical Vibration-Compensation Performance



MP1010M-VC

Image shows MP1110M-VC.

- Embedded with Industry-First* Optical Vibration-Compensation
- Miniature size and light-weight (a total length of 58.4 mm and a weight of 77g) Supporting 10x Optical Zoom
- Compatible with 1080/60 Full HD

Versatile Miniature-Size Camera Module with Optical Vibration-Compensation

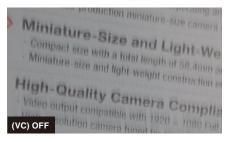
Embedded with Industry-First* Optical Vibration-Compensation

Tamron's proprietary optical vibration-compensation employed in MP1010M-VC / MP1110M-VC suppresses the effect of vibration and assures unrivaled crisp and clear image quality; an advantage that particularly stands out in the telephoto range.

*For MP1010M-VC, in mass-production miniature-size camera module (survey by Tamron, effective as of January, 2016)

[Optical Vibration-Compensation (VC) feature: Comparison of VC ON/OFF image qualities]





*Part of image enlarged.

Optical Vibration-Compensation (VC) feature: Comparison of VC ON/OFF video qualities (sample video)

URL http://www.tamron.biz/vcsample/



Miniature size and light-weight

Ultimate small size and weight (a total length of 58.4 mm and a weight of 77g) with integrated powerful 10x optical zoom; distinctive advantage for re-using current housings or for installation in limited spaces.

MP1010M-VC / MP1110M-VC SPEC

Camera

	MP1010M-VC	MP1110M-VC	
Image sensor (Effective number of pixels)	1/3-type CMOS (Progressive Scan) (Approx. 4,080,000 pixels)		
Pixel output	1920x1080, 1280x720		
Signal system (HD)	1080p/60, 1080p/50, 1080p/30, 1080p/25, 1080i/60,1080i/50, 720p/60, 720p/50, 720/30p, 720/25p	1080p/60, 1080p/59.94, 1080p/50, 1080p/30, 1080p/29.97, 1080p/25, 1080i/60, 1080i/59.94, 1080i/50, 720p/60, 720p/59.94, 720p/50, 720p/30, 720p/29.97, 720p/25	
Signal system (SD)	-	NTSC/PAL	
Minimum illumination	0.5lx (1/30sec, F1.8, 50%)		
Recommended illumination	100 lx to 100,000 lx		
S/N ratio	More than 50dB		
Gain	Auto / Manual		
Shutter speed	1/1 to 1/10,000 sec		
Sync system	Internal		
Exposure compensation	-12dB to +12dB (Total 13 steps)		
Backlight compensation	ON/OFF		
Gamma	Standard/Straight		
Aperture control	16 steps		
White balance	ATW1 (Narrow), ATW2 (Wide), One push, Manual (B, R)		
AE (Auto exposure mode)	Auto, Manual, Priority mode (shutter/iris)		
Lens	10x optical zoom f=3.3 mm (wide) to 33.0 mm (tele) F1.8 to F3.4		
Zoom mode	Standard /Variable/Direct		
Zoom movement speed (wide to tele)	1.4 sec		
Digital zoom	-	16x	
Focusing system	Auto, Manual, One	push, AF sensitivity	
Horizontal viewing angle (wide to tele)	58.2 degrees to 6.9 degrees		
Minimum object distance (wide to tele)	10mm to 800mm		
Horizontal resolution	800 T	800 TV lines	

■ General

Power requirement	8 V to 12 V DC	
Power consumption	Approx. 3W (Approx. 4.5W during motor operation)	
Operating temperature	−5°C to +60°C	
Storage temperature	-40°C to +60°C	
Operating humidity	20% to 80% (no condensation)	
Storage humidity	20% to 90% (no condensation)	
Dimensions (W x H x D)	31.9 x 41.5 x 58.4 mm	
Weight	Approx. 77g	

Compatible with Full HD

High image-quality camera module with video outputs compatible with 1080/60 Full HD and other video formats; powerful solution for myriad applications.

■ Interface

	MP1010M-VC	MP1110M-VC
Video output (HD)	Digital: Y/Pb/Pr 4:2:2 (LVDS)	
Video output (SD)	-	CVBS
Camera control interface		protocol k of Sony Corporation.

■ Features

VC (Vibration Compensastion)		
Wide-D		
Defog		
Noise reduction (3D+2D)		
Digital output		
Privacy zone masking		
Motion detection	Standard features	
Slow shutter	Standard leatures	
Picture effects (Black White)		
Picture freeze		
Electronic-Flip (E-Flip)		
Mirror image		
Temperature readout		
Title display		

TAMRON

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

Tamron Co., Ltd. http://www.tamron.biz/

1385, Hasunuma, Minuma-ku, Saitama-shi, Saitama 337-8556 JAPAN Tel: +81-48-684-9129 Fax: +81-48-683-8594

• The content of this catalog is current as of April 2018.

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 improvementat all levels and facets of its business operations.