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

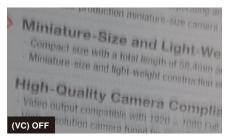
Embedded with Industry-First* Optical Vibration-Compensation

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) | 59.2 degrees to 6.7 degrees | | |
| Minimum object distance (wide to tele) | 10mm to 800mm | | |
| Horizontal resolution | 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 | VISCA protocol *VISCA is a trademark of Sony Corporation. | |

■ Features

| Features | | |
|-------------------------------|-------------------|--|
| VC (Vibration Compensastion) | | |
| Wide-D | | |
| Defog | | |
| Noise reduction (3D+2D) | Standard features | |
| Digital output | | |
| Privacy zone masking | | |
| Motion detection | | |
| 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.

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• 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.