

Specifications OM-1 Mark II

Type	
Body material	Magnesium alloy body
Lens mount	Micro Four Thirds
Image Sensor	
Type	4/3" Stacked BSI Live MOS sensor
Effective pixels	20.4 Megapixels
Aspect ratio & area	4:3 / 17.3 x 13.0 mm
Engine	
Type	TruePic X
Filter	
Dust reduction filter	Supersonic Wave Filter
Viewfinder	
Type	Electronical Viewfinder
Pixel number	5,760 K dots
Diopter adjustment	Equipped -4.0 - +2.0 diopters / built-in type
Angle of view	Approx. 100%
Magnification	Max. 1.65 x with a 50mm lens set to infinity at -1 dioptre (depending on selected viewfinder style)
Eye point	21 mm at -1 dioptre from eyepiece lens
Style	3 styles selectable
Brightness adjustment	Adaptive Brightness Technology / Manual settings: +/- 7 levels
Correction of colour temperature	+/- 7 levels
S-OVF	Expands the Live View dynamic range <small>*Available in the EVF when in P, A, S, M and B modes. Art filter, WB and exposure are not reflected in EVF.</small>
Live View	
Field of view	Approx. 100%
Magnification levels	3 / 5 / 7 / 10 / 14 x
Dynamic range expansion	When in HDR1 or HDR2
Live ND	128 <small>S/M mode only, flash can not be used, ISO up to 800, the maximum shutter speed is 1/60 (when ND2 is set) and the speed drops if the number of ND steps is raised.</small>
Live GND	Available <small>*P/A/S/M mode, flash can not be used, ISO up to 3200(up to 1600 in ISO Auto), the maximum shutter speed is 1/16000 (when ND2 is set) and the speed drops if the number of ND steps is raised.</small>
Image Stabiliser	
Type	Sensor shift
Modes	Five-dimensional, vertical or horizontal activation, automatic
Effective Compensation Range	Up to 8.5 EV steps* ((Body only))

Image Stabiliser	
	Up to 8.5 EV steps** (Sync IS) <small>Based on CIPA measurement conditions *When using M.Zuiko Digital ED 12-40mm F2.8 PRO II. Focal length: 40mm (35mm equivalent: 80mm) **When using the M.Zuiko Digital ED 150-400mm F4.5 TC1.25x IS PRO. Focal length: 150mm (35mm equivalent: 300mm), halfway release image stabilisation Off, Frame rate: High</small>
Live View stabilisation	Available
Focusing System	
Method	TTL phase difference detection system, contrast detection system
Focus areas	1053 points / cross-type phase detection AF 1053 points / contrast AF All target, Single target (1 point), Small target (9 points), Cross target (39 points), Middle target (63 points), Large target (165 points), Custom target* (AF area and its increment steps selectable)*Number of saved custom target settings: 4
AF working range	-8 - 19 EV (ISO approx.100, with a f/1.2 lens)
AF lock	Available, Locked by first position of shutter release button in single AF mode, AE/AF lock button (customised)
Separate AF-On button	Available
Modes	Manual focus, Preset MF**, Single AF*, Continuous AF*, AF* Tracking, Stacking, Bracketing <small>* incl. manual override ** Distance setting values are rough estimates and only AF lenses can be used.</small>
AF illuminator	Equipped
Manual focus	Available, with enlarged focusing area, focus peaking and focus indicator
Face Detection extension	Eye Detect AF: Off, Left side priority, Near side priority, Right side priority
Predictive AF	Available
AF tracking	Available, Available in continuous AF mode
Focus peaking	
Colour selection	White, black, red, yellow
Intensity	High / Normal / Low
Back light effect	On / Off
Focus Bracketing Mode	
Number of images	3 - 999 shots
Step size	10 levels Compatible with: All Micro Four Thirds AF lenses
Focus Stacking Mode	
Technology	3-15 images are taken at different focus points and automatically composited together into a single image

Focusing System	
	Compatible with: M.Zuiko Digital ED 90mm F3.5 Macro IS PRO, M.Zuiko Digital ED 60mm F2.8 Macro, M.Zuiko Digital ED 30mm F3.5 Macro, M.Zuiko Digital ED 7-14mm F2.8 PRO, M.Zuiko Digital ED 8-25mm F4 PRO, M.Zuiko Digital ED 8mm F1.8 Fisheye PRO, M.Zuiko Digital ED 12-40mm F2.8 PRO, M.Zuiko Digital ED 12-40mm F2.8 PRO II, M.Zuiko Digital ED 12-45mm F4 PRO, M.Zuiko Digital ED 12-100mm F4 IS PRO, M.Zuiko Digital ED 40-150mm F2.8 PRO, M.Zuiko Digital ED 40-150mm F4.0 PRO, M.Zuiko Digital ED 100-400mm F5.0-6.3 IS, M.Zuiko Digital ED 150-400mm F4.5 TC1.25x IS PRO, M.Zuiko Digital ED 300mm F4 PRO
	M.Zuiko Digital 1.4x Teleconverter MC-14, M.Zuiko Digital 2x Teleconverter MC-20 <small>Angle of view becomes slightly smaller</small>
AF targeting pad	Available (activate/deactivate with double tap on rear monitor)
Intelligent Subject Detection AF	Aircrafts, Bullet trains, Birds, Cats, Dogs, Formula cars, Helicopters, Human, Motorcycles, Rally cars, Standard trains, Steam locomotives
Focus limit	Available
Exposure System	
Modes	Programme automatic, Aperture priority, Shutter priority, Manual, Bulb, Time, Movie, HDR, Custom shooting, Custom 1, Custom 2, Custom 3, Live Composite
Exposure compensation	+/- 5 EV (1, 1/2, 1/3 steps) Note: Monitor and EVF displays only up to ±3 EV.
Exposure bracketing	2 / 3 / 5 frames (+/- 1/3, 2/3, 1 EV steps) 7 frames (+/- 1/3, 1/2, 2/3 EV steps)
ISO bracketing	3 frames (1/3, 1/2, 1 EV steps)
AE lock	Available Shadow Adjustment Technology Flicker Scan: Available for M, S and silent mode (can be confirmed in Live View)
HDR bracketing	3 / 5 frames (+/- 2 / 3 EV steps) 7 frames (+/- 2 EV steps)
Anti-Flicker Shooting function	Available
Multi-Exposure	
Max. number of frames	2 frames (shooting) 3 frames (editing)
Auto gain control	Available
Frame assistance	Live View
Light Metering	
Method	TTL open aperture light metering
Zones	324 zones Multi-pattern Sensing System

Light Metering

Detection range	-2 - 20 EV (f2.8, ISO 100)
Modes	ESP light metering, Spot metering, Centre weighted metering, Highlight, Shadow
Histogram in shooting mode	Available

Art Filter

Modes	Pop Art, Soft Focus, Pale & Light Colour, Light Tone, Grainy Film, Pin Hole, Diorama, Cross Process, Dramatic Tone, Gentle Sepia, Key Line, Water colour, Vintage, Partial Colour*, Bleach Bypass, Instant Film
Variation / Effect	Available
Art Filter bracketing	Art Filters selectable * 18 colours selectable

Sensitivity

Auto	ISO LOW* - 102400 (upper default ISO 25600)
Manual	ISO LOW* - 102400 in 1/3 or 1 EV ISO steps *approx. 80

Shutter

Shutter type	Computerised focal-plane shutter
Durability	400,000 shots
Modes	Single frame, Sequential shooting, Self timer, Bracketing

Shutter Speeds

Shutter speed range	1/8000 - 60 s (in 1/3, 1/2, 1 EV steps)
Bulb mode	Up to 30 minutes (selectable longest time in the menu, default: 8 minutes)

High res shot

Shutter type	Electronic shutter
Shutter speed	1/8000 - 60 s
Start delay	0, 1/8, 1/4, 1/2, 1, 2, 4, 8, 15, 30 s
Resolution	JPEG: 10368x7776 / 8160 x 6120 / 5760 x 4320 RAW: 10368 x 7776 *High Res RAW Recording bit: 12bit / 14bit Equivalent to 80M / 50M / 25M pixel sensor (8 shots combined into a single JPEG using sensor shift) Available in P/A/S/M mode

Handheld High res shot

Shutter type	Electronic shutter
Shutter speed	1/8000 - 60 s
Resolution	JPEG: 8160 x 6120 / 5760 x 4320 RAW: 8160 x 6120 *High Res RAW Recording bit: 12bit / 14bit Equivalent to 50M / 25M pixel sensor (8 shots combined into a single JPEG using sensor shift) Available in P/A/S/M mode Flash can not be used

Shutter Speeds

Anti-shock mode	
Shutter type	Electronic first curtain shutter
Shutter speed	1/320* - 60 s
Start delay	0, 1/8, 1/4, 1/2, 1, 2, 4, 8, 15, 30 s * For speeds over 1/320 sec., mechanical shutter will automatically be selected.
Silent mode	
Shutter type	Electronic shutter
Shutter speed	1/32000 - 60 s
Start delay	0, 1/8, 1/4, 1/2, 1, 2, 4, 8, 15, 30 s
Flicker Scan	
Stills	1/7634 - 1/50 s
Movies	1/250 - 1/30 s* * Frame rates greater 30fps are limited to their reciprocal value

White Balance

Manual White balance (One-Touch)	Available
White balance bracketing	3 frames / +/- 2, 4, 6 mired steps
One-touch white balance	4 custom settings can be registered
Custom WB	1 setting can be registered at Kelvin temperature (2000K - 14000K)
Preset values	Tungsten, Fluorescent 1, Sunlight, Flash, Overcast, Shade, Underwater
Auto Flash adjustment	Off / Auto WB / Flash
Keep warm colour	On / Off

Sequence Shooting

Speed	Approx. 10 fps (selectable 1-10fps)
Anti-shock mode	
Speed	Approx. 10 fps (selectable 1-10fps)
Silent mode	
Speed	Approx. 20 fps (selectable 5, 10, 15, 20fps with blackout)
Speed SH1*	Approx. 120 fps (selectable 60, 100, 120fps without blackout)
Speed SH2** **	Approx. 50 fps (selectable 12.5, 16.7, 25, 50fps without blackout)
Pro Capture mode	
Speed*	Approx. 20 fps (selectable 5, 10, 15, 20fps)
Speed SH1*	Approx. 120 fps (selectable 60, 100, 120fps)
Speed SH2** **	Approx. 50 fps (selectable 25, 50fps) *Slower shutter speeds and flash cannot be used *Compatible lenses are limited.
Compatible lenses to SH2 (50fps)	M.Zuiko Digital ED 12-40mm F2.8 PRO, M.Zuiko Digital ED 12-40mm F2.8 PRO II, M.Zuiko Digital ED 12-100mm F4.0 IS PRO, M.Zuiko Digital ED 40-150mm F2.8 PRO, M.Zuiko Digital ED 150-400mm F4.5 TC 1.25x IS PRO, M.Zuiko Digital ED 300mm F4.0 IS PRO

Sequence Shooting

Max. number of frames	All values are approximate
Conditions	Memory card: KIOXIA KSDXU-A064G When using the M.Zuiko Digital ED 12-40mm F2.8 PRO II Low ISO processing: Priority is given to sequential shooting
10fps	RAW: 139 / JPG (LF): 169
20fps	RAW: 108 / JPG (LF): 116
50fps	RAW: 96 / JPG (LF): 97
120fps	RAW: 92 / JPG (LF): 92
RAW buffer	213 frames / 120fps

Image Processing

Colour space	sRGB / AdobeRGB
Sharpness + Contrast	5 levels
Contrast	5 levels
Saturation	5 levels
Black & White filter	Yellow, Orange, Red, Green
Black & White toning	Sepia, Blue, Purple or Green in Black & White mode
Gradation	4 levels (auto, high key, normal, low key)
Art Filter bracketing	Available
Tele converter effect	2 x
Fisheye compensation	Available when M.Zuiko Digital ED 8mm Fisheye PRO is attached Angle of view adjustable in 3 levels Compensation automatically ON when using Underwater Modes, available (can be confirmed in Live View)
Highlight & Shadow control	Highlight / Shadow / Midtone +/- 7 steps

External Flash Control

X-sync speed	1/250 s / 1/8000 s (Super FP Mode)
Type	TTL AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL
Compatible external flash	FL-LM3, FL-600R, FL-900R, STF-8, FL-700WR
Modes	Auto, Red-eye reduction, Slow synchronisation, 2nd curtain and slow synchronisation, Fill-in for exclusive flash, Manual
Intensity	+/- 3 EV (1/3, 1/2, 1 EV steps) Note: Some functions are only available if they are supported by the external flash.

Wireless Flash Control

Number of channels	4 channels
Compatible external flash	FL-LM3, FL-600R, FL-900R, STF-8, FL-700WR
Control method	Triggered and controlled (Olympus Wireless RC Flash system)
Group setting	4 groups Available when used together with cameras compatible with the Olympus wireless RC flash system.

Wireless Flash Control

Compatible commander	FC-WR, FL-700WR <small>For more details see specifications of commander units.</small>
Compatible receiver	FL-700WR, FR-WR + wireless RC system flash
Radio control	3 groups
Radio wireless control	Available when attaching optional flash commander.
Number of channels	4 channels
Modes	Auto, FP TTL Auto, Manual, TTL Auto, FP Manual

Monitor

Monitor type	Vari-angle LCD - Touch Panel
Monitor size	7.6 cm / 3.0" (3:2)
Resolution	1,620 K dots
Brightness adjustment	+/- 7 levels
Colour balance	+/- 7 levels
Touch Control functions	AF area enlargement, AF area selection, Subject selection, Art Filter, Enlargement, Enlargement playback, Frame forward/backward, Live Guide, Shooting mode, Shutter release, Super Control Panel, Wi-Fi connection

Level Gauge

Detection	2-axis
Display	Rear display and viewfinder

Super Control Panel

Displayed information	Battery indicator, Record mode, Shutter speed, Aperture value, Exposure compensation indicator, ISO, AE bracketing, AF frame, Focus mode, AEL notification, Face detection, Number of storable frames, Metering mode, Exposure mode, Exposure level view, Flash compensation value, Colour space, Gradation, Colour saturation compensation value, Sharpness compensation value, Contrast compensation value, White balance, White balance compensation value, Noise reduction, Flash mode, Drive mode, Internal temperature warning, Histogram
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Recording Formats

RAW	12 bit
RAW & JPEG	Applied parallel recording
JPEG	Applied
Aspect ratio	4:3 / 3:2 / 16:9 / 6:6 / 3:4

Image Size

RAW	5184 x 3888
JPEG	5184 x 3888 - 1024 x 768

Still Image Recording

EXIF	2.31
DCF	Applied
RAW	Applied

Still Image Recording

Dual SD card settings	Standard, Auto Switch, Dual Independent, Dual Same
	When two cards are inserted, card to be saved onto or to be viewed can be designated.

Movie Recording System

Recording format	MOV(MPEG-4AVC/H.264)/ MOV (HEVC/H.265)
Picture mode	Flat, OM-Log400, HLG (View assist compatible)
Time code	Rec run / Free run
	Drop frame / Non-drop frame
Image Stabilisation Mode	Applied Sensor shift (5-axis)
	M-IS1 (Image sensor shift and electronic image stabilizer with multi motion IS)
	M-IS2 (Image sensor shift with multi motion IS)

MOV(MPEG-4AVC/H.264)

4096x2160 (C4K)	30p, 25p, 24p / LongGOP (approx. 102 Mbps)
	60p, 50p / LongGOP (approx. 202 Mbps)
3840x2160 (4K)	30p, 25p, 24p / LongGOP (approx. 102 Mbps)
	60p, 50p / LongGOP (approx. 202 Mbps)
1920x1080 (FHD)	30p, 25p, 24p / ALL-I (approx. 202 Mbps)
	/ LongGOP (approx. 27 Mbps)
	60p, 50p / LongGOP (approx. 52 Mbps)

MOV (HEVC/H.265)

4096x2160 (C4K)	30p, 25p, 24p / LongGOP (approx. 77 Mbps)
	60p, 50p / LongGOP (approx. 152 Mbps)
3840x2160 (4K)	30p, 25p, 24p / LongGOP (approx. 77 Mbps)
	60p, 50p / LongGOP (approx. 152 Mbps)
1920x1080 (FHD)	30p, 25p, 24p / ALL-I (approx. 82 Mbps)
	/ LongGOP (approx. 22 Mbps)
	60p, 50p / ALL-I (approx. 162 Mbps)
	/ LongGOP (approx. 42 Mbps)

Maximum Recording Time Unlimited

Exposure Modes	Aperture priority, Manual, Programme automatic, Shutter priority
	<small>Class 10 or higher SD card is recommended for movie shooting UHS-II or UHS-I U3 card is recommended for ALL-I shooting</small>

Movie Specialties

High-Speed Recording	1920x1080 (MOV) / 240fps
Time lapse	4k, 1080p, 720p / 5, 10, 15, 30 fps
	Max. number of frames: 9999
Fast motion	Available
Slow motion	Available
Vertical Video	Available
	<small>Video files are saved vertically when holding the camera vertically to shoot. Videos are not played in the vertical orientation on the camera.</small>

Movie Specialties

Art Filter	Cross Process, Diorama, Dramatic Tone, Instant Film, Water colour, Gentle Sepia, Grainy Film, Key Line, Light Tone, Pale & Light Colour, Pin Hole, Pop Art, Soft Focus, Vintage, Partial Colour*, Bleach Bypass <small>Frame rate may drop when using certain art filter</small>
Flicker Scan	Available in M mode (can be confirmed in Live View)
HDMI Live View	
	Monitor / Record / RAW
Monitor mode	Video signal and info display is processed <small>In monitor mode, the image cannot be enlarged on the camera when a movie is being recorded.</small>
Record mode	Only video signal is processed <small>In record mode, movie quality can be set to YCbCr 4:2:2 (8 bit). When recording simultaneously in the camera in 4K/C4K/FHD HS, 4:2:0 is upsampled to 4:2:2. In RAW mode, output video quality is 4K/C4K 12bit RAW data, frame rate follows movie setting, and sound will be recorded. ProRes RAW 4:4:4 12bit is supported</small>
	1920x1080 / 120fps
	1920x1080 / 100fps

Sound Recording System

Microphone	Stereo
Recording format	High quality sound recording (Stereo linear PCM/24-bit, Sampling frequency 96kHz)
	Stereo PCM/16bit, 48kHz, Wave Format Base
Image footage	30 s
Speaker	Equipped
Microphone functions	Wind Noise Reduction, Recording Volume, Volume limiter

View Images

Modes	Single, Index, Calendar, Zoom, Movie
Auto rotation	Available
Histogram in playback mode	Available
Shooting information	Off / On
Highlight/Shadow point warning	Available

Erase / Protect / Copy Function

Erase modes	Single, All, Selected
Image protect mode	Single frame, Selected frames, All Frames, Release protect (Single/All selected)

Image Editing

Editing functions	RAW data edit, Red-eye reduction, Sepia, Black & White, Resize, Correction of saturation, Correction of brightness, Correction of colour balance, Shadow Adjustment, Trimming, Aspect ratio
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Menu

Menu languages in camera English, French, German, Spanish, Italian, Japanese, Traditional Chinese, Simplified Chinese, Russian, Czech, Dutch, Polish, Portuguese, Swedish, Norwegian, Finnish, Turkish, Thai

Customisation Options

Fn Button Equipped
 My Mode 4 settings storable (Can be set to mode dial.)
 Factory reset Full / Basic
 Programmable button Equipped

Interface

Media SD Memory Card (SDHC, SDXC, UHS-I, UHS-II compatible)
 Class 10 or higher SD card is recommended for movie shooting
 UHS-II or UHS-I U3 card is recommended for 4K, C4K, ALL-I shooting.

HDMI™ Applied Micro connector (Type D) *
 * "HDMI", the HDMI logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.

USB 3 Type C

Wireless connectivity Wi-Fi, Bluetooth®

Communication method Bluetooth® Low Energy Ver.4.2

SAR 0.52 W/kg
 SAR quantifies the maximum level of exposure of the user to electromagnetic waves, when using the device close to the head. SAR shall not exceed 2W/kg in accordance with regulations of France. Wi-Fi is a registered trademark of the Wi-Fi Alliance. The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by OLYMPUS CORPORATION is under license.

Tethered control Available USB cable (camera operation by both PC or camera controls)
 Wi-Fi (transfer of recorded images to PC via access point, 5GHz and 2.4GHz available)

Microphone jack 3.5 ø mm mini-jack
 Earphone jack 3.5 ø mm mini-jack
 Synchro socket Equipped

Wi-Fi Functions

Easy Connection QR code setting
 Wireless Shooting Live View, Power off, Rec View, Self timer, Touch AF & Shutter, P/A/S/M exposure modes, Bulb mode, Zoom, Movie recording, Live Composite, Short movie

Power Supply

Battery BLX-1 Lithium-Ion Battery
 Sleep mode 1, 3, 5min. and off selectable.
 Internal Charging USB
 USB charging Performance varies depending on different USB devices
 USB bus power USB PD bus power can be used (PD compliant camera: Rev 3.0 Ver 1.0a)

Power Supply

Battery life
 Image shooting 520 shots (using BLX-1 under CIPA testing conditions)
 1,100 shots (using quick sleep mode, under Olympus testing conditions based on CIPA test standards)
 Movie recording 90 min (standard JEITA conditions)
 160 min (when zoom and other operational functions are not used)
 * Note: Values are approximate.

Environment

Temperature -10 - 40°C Operating temperature / -20 - 60°C storage temperature
 Humidity 30 - 90% operation humidity / 10 - 90% storage humidity

Dimensions / Weight

Width 138.8 mm
 Height 91.6 mm
 Depth 72.7 mm
 Weight 599 g (including battery and memory card)
 511 g (body only)