← OM-1 Mark II technical specifications

Monitor	3.0 inch Vari-angle Touch LCD (approx. 1.62M dots)
Viewfinder Resolution Magnification / Coverage	Eye-level OLED Electronic Viewfinder, approx. 5.76M dots Approx. 1.48x - 1.65x / Approx. 100% Field of View
Image Stabilisation	Built-in 5-axis Up to 8.5 EV steps*
Importer	OM Digital Solutions GmbH Willy-Brandt-Strasse 23 20457 Hamburg, Germany mail: imprint@om-digitalsolutions.com
Manufacturer	OM Digital Solutions Corporation 49-3 Takakura-machi, Hachioji-shi, Tokyo 192-0033, Japan mail: imprint@om-digitalsolutions.com

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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
Full resolution	22.9 Megapixels
Aspect ratio & area	4:3 / 17.3 x 13.0mm
Filter array	Primary colour filter (RGB)

Engine

Type	TruePic X

Dust Reduction System

Dust reduction filter	Supersonic Wave Filter

Viewfinder

Type	Electronical Viewfinder
Pixel number	5760K dots
Magnification	Max. 1.65x with a 50mm lens set to infinity at -1 dioptre (depending on selected viewfinder style)
Angle of view	Approx. 100%
Style	3 styles selectable
Brightness adjustment	Adaptive Brightness Technology / Manual settings: +/- 7 levels
Correction of color temperature	+/- 7 levels
Diopter adjustment	Equipped -4.0 - +2.0 diopters / built-in type
Eye point	21mm at -1 dioptre from eyepiece lens
S-OVF	Expands the Live View dynamic range
Note	*Available in the EVF when in P, A, S, M and B modes. Art filter, WB and exposure are not reflected in EVF.

Monitor

Monitor type	Vari-angle LCD - Touch Panel
Resolution	1620K dots
Monitor size	7.6cm / 3.0'' (3:2)
Brightness adjustment	+/- 7 levels
Color balance	+/- 7 levels

Touch Control functions	AF area enlargement, AF area selection, Art Filter, Enlargement, Frame forward/ backward, Live Guide, Magnified playback, Shooting mode, Shutter release, Subject selection, Super Control Panel, Wi-Fi connection

Level Gauge

Detection	2-axis
Display	Rear display and viewfinder

Live View

Field of view	Approx. 100%
Dynamic range expansion	When in HDR1 or HDR2
Magnification levels	3 / 5 / 7 / 10 / 14x
Live ND	128 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.
Live GND	Available *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.

Super Control Panel

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

Image Stabiliser

Image Stabilisation	Built-in 5-axis Up to 8.5 EV steps*
Type	Sensor shift
Modes	Five-dimensional, vertical or horizontal activation, automatic

Live View stabilisation	Available
Effective Compensation Range	Up to 8.5 EV steps* (Body only) Up to 8.5 EV steps** Sync IS
Note	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

Focusing System

Method	TTL phase difference detection system, contrast detection system
Modes	AF* Tracking, Bracketing, Continuous AF*, Manual focus, Preset MF**, Single AF*, Stacking
Note	* incl. manual override ** Distance setting values are rough estimates and only AF lenses can be used.
Predictive AF	Available
Intelligent Subject Detection AF	Aircrafts, Birds, Bullet trains, Cats, Dogs, Formula cars, Helicopters, Human, Motorcycles, Ralley cars, Standard trains, Steam locomotives
Manual focus	Available, with enlarged focusing area, focus peaking and focus indicator
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 illuminator	Equipped
AF lock	Available, Locked by first position of shutter release button in single AF mode, AE/AF lock button (customised)
AF targeting pad	Available (activate/deactivate with double tap on rear monitor)
AF working range	-8 - 19EV (ISO approx.100, with a f/1.2 lens)
Focus limit	Available
Separate AF-On button	Available
AF tracking	Available, Available in continuous AF mode
Focus	Compatible with: All Micro Four Thirds AF lenses

Bracketing Mode	
Number of images	3 - 999 shots
Step size	10 levels
Focus peaking	
Back light effect	On / Off
Color selection	White, black, red, yellow
Intensity	High / Normal / Low
Focus Stacking Mode	
Technology	3-15 images are taken at different focus points and automatically composited together into a single image
Compatible Lenses	M.Zuiko Digital ED 100-400mm F5.0-6.3 IS, M.Zuiko Digital ED 12-100mm F4 IS 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 150-400mm F4.5 TC1.25x IS PRO, M.Zuiko Digital ED 300mm F4 PRO, M.Zuiko Digital ED 30mm F3.5 Macro, M.Zuiko Digital ED 40-150mm F2.8 PRO, M.Zuiko Digital ED 40-150mm F4.0 PRO, M.Zuiko Digital ED 60mm F2.8 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 90mm F3.5 Macro IS PRO
Compatible Converter	M.Zuiko Digital 1.4x Teleconverter MC-14, M.Zuiko Digital 2x Teleconverter MC-20
Note	Angle of view becomes slightly smaller

Exposure System

Modes	Aperture priority, Bulb, Custom, Custom 1, Custom 2, Custom 3, HDR, Live Composite, Manual, Movie, Programme automatic, Shutter priority, Time
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)
HDR bracketing	3 / 5 frames (+/- 2 / 3 EV steps) 7 frames (+/- 2 EV steps)
AE lock	Available Shadow Adjustment Technology Flicker Scan: Available for M, S and silent mode (can be confirmed in Live View)
Anti-Flicker Shooting function	Available

Multi-Exposure

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

Art Filter

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

Note	Frame rate may drop when using certain art filter

Sensitivity

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

Shutter

Shutter type	Computerised focal-plane shutter
Durability	400000 shots
Modes	Bracketing, Self timer, Sequential shooting, Single frame

Shutter Speeds

Standard operation

Shutter speed range	1/8000 - 60s (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 - 60s
Start delay	0, 1/8, 1/4, 1/2, 1, 2, 4, 8, 15. 30s
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 - 60s
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

Anti-shock mode

Shutter type	Electronic first curtain shutter
Shutter speed	1/320* - 60s
Start delay	0, 1/8, 1/4, 1/2, 1, 2, 4, 8, 15, 30s
Note	* For speeds over 1/320 sec., mechanical shutter will automatically be selected.

Silent mode

Shutter type	Electronic shutter
Shutter speed	1/32000 - 60s
Start delay	0, 1/8, 1/4, 1/2, 1, 2, 4, 8, 15. 30s

Flicker Scan

Stills	1/7634 - 1/50s
Movies	1/250 - 1/30s *
Note	* Frame rates greater 30fps are limited to their reciprocal value

White Balance

Auto Flash adjustment	Off / Auto WB / Flash
Keep warm color	On / Off
White balance bracketing	3 frames / +/- 2, 4, 6 mired steps
Custom WB	1 setting can be registered at Kelvin temperature (2000K - 14000K)
Manual White balance (One-Touch)	Available

One-touch white balance	4 custom settings can be registered
Preset values	Flash, Flourescent 1, Overcast, Shade, Sunlight, Tungsten, Underwater

Sequence Shooting

Speed	Approx. 10fps (selectable 1-10fps)
Anti-shock mode	
Speed	Approx. 10fps (selectable 1-10fps)
Pro Capture mode	
Speed*	Approx. 20fps (selectable 5, 10, 15, 20fps)
Speed SH1*	Approx. 120fps (selectable 60, 100, 120fps)
Speed SH2* **	Approx. 50fps (selectable 25, 50fps)
Note	*Slower shutter speeds and flash cannot be used *Compatible lenses are limited.
Silent mode	
Speed	Approx. 20fps (selectable 5, 10, 15, 20fps with blackout)
Speed SH1*	Approx. 120fps (selectable 60, 100, 120fps without blackout)
Speed SH2* **	Approx. 50fps (selectable 12.5, 16.7, 25, 50fps without blackout)
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
Max. number of frames	All values are approximate
10fps	RAW: 139 / JPG (LF): 169
20fps	RAW: 108 / JPG (LF): 116
50fps	RAW: 96 / JPG (LF): 97
120fps	RAW: 92 / JPG (LF): 92

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
RAW buffer	213 frames / 120fps

Image Processing

Art Filter bracketing	Available
Color space	sRGB / AdobeRGB
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)
Gradation	4 levels (auto, high key, normal, low key)
Highlight & Shadow control	Highlight / Shadow / Midtone (+/- 7 steps)
Black & White filter	Yellow, Orange, Red, Green
Black & White toning	Sepia, Blue, Purple or Green in Black & White mode
Contrast	5 levels
Saturation	5 levels
Sharpness + Contrast	5 levels
Tele converter effect	2x

External Flash Control

Modes	2nd curtain and slow synchronisation, Auto, Fill-in for exclusive flash, Manual, Red-eye reduction, Slow synchronisation
Type	AUTO, FP MANUAL, FP TTL AUTO, MANUAL, TTL AUTO
X-sync speed	1/250s / 1/8000s (Super FP Mode)
Intensity	+/- 3 EV (1/3, 1/2, 1 EV steps)

Compatible external flash	FL-LM3, FL-600R, FL-900R, STF-8, FL-700WR
Note	Note: Some functions are only available if they are supported by the external flash.

Wireless Flash Control

	Available when used together with cameras compatible with the OM System (Olympus) wireless RC flash system.
Modes	Auto, FP Manual, FP TTL Auto, Manual, TTL Auto

Optical control

Control method	Triggered and controlled (OM System (Olympus) Wireless RC Flash system)
Group setting	4 groups
Compatible external flash	FL-LM3, FL-600R, FL-900R, STF-8, FL-700WR

Radio control

Radio wireless control	Available when attaching optional flash commander.
Number of channels	4 channels
Group setting	3 groups
Compatible commander	FC-WR, FL-700WR
Note	For more details see specifications of commander units.
Compatible receiver	FL-700WR, FR-WR + wireless RC system flash
Number of channels	4 channels

Recording Formats

JPEG	Applied
RAW	12bit
RAW & JPEG	Applied parallel recording

Aspect ratio	4:3 / 3:2 / 16:9 / 6:6 / 3:4

Still Image Recording

DCF	Applied
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.
EXIF	2.31
RAW	Applied

Image Size

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

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
Exposure Modes	Aperture priority, Manual, Programme automatic, Shutter priority
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)
Video Quality	4K, C4K, Full HD, High Speed Movie FHD
Filter Video Quaility	C4K: 60p, 50p, 30p, 25p, 24p | 4K: 60p, 50p, 30p, 25p, 24p | Full HD: 60p, 50p, 30p, 25p, 24p | High Speed Movie: 1920x1080 (FHD) / 240fps, 200fps, 120fps, 100fps, 100fps

MOV(MPEG-4AVC/ H.264)

48kHz/16bit

3840x2160 (4K)	30p, 25p, 24p / LongGOP (approx. 102 Mbps) 60p, 50p / LongGOP (approx. 202 Mbps)
4096x2160 (C4K)	30p, 25p, 24p / LongGOP (approx. 102 Mbps) 60p, 50p / LongGOP (approx. 202 Mbps)
1920x1080 (FHD)	30p, 25p, 24p / ALL-I (approx. 202 Mbps) 60p, 50p / LongGOP (approx. 52 Mbps) / LongGOP (approx. 27 Mbps)
MOV (HEVC/H.265)	
48kHz/16bit	
3840x2160 (4K)	30p, 25p, 24p / LongGOP (approx. 77 Mbps) 60p, 50p / LongGOP (approx. 152 Mbps)
4096x2160 (C4K)	30p, 25p, 24p / LongGOP (approx. 77 Mbps) 60p, 50p / LongGOP (approx. 152 Mbps)
1920x1080 (FHD)	30p, 25p, 24p / ALL-I (approx. 82 Mbps) 60p, 50p / ALL-I (approx. 162 Mbps) / LongGOP (approx. 42 Mbps) / LongGOP (approx. 22 Mbps)
Note	Class 10 or higher SD card is recommended for movie shooting UHS-II or UHS-I U3 card is recommended for ALL-I shooting
Maximum Recording Time	Unlimited

Movie Specialties

Art Filter	Bleach Bypass, Cross Process, Diorama, Dramatic Tone, Gentle Sepia, Grainy Film, Instant Film, Key Line, Light Tone, Pale & Light Colour, Partial Colour*, Pin Hole, Pop Art, Soft Focus, Vintage, Water colour
Fast motion	Available
Flicker Scan	Available in M mode (can be confirmed in Live View)
HDMI Live View	
Modes	Monitor / Record / RAW
Monitor mode	Video signal and info display is processed
Note	In monitor mode, the image cannot be enlarged on the camera when a movie is being recorded.
RAW mode	

Compatible external device	ATOMOS NINJA, NINJA ULTRA, NINJA V, NINJA V+
Notification:	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
Record mode	Only video signal is processed
Note	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.
High-Speed Recording	1920x1080 (MOV) / 240fps 1920x1080 / 120fps 1920x1080 / 100fps
Time lapse	4k, 1080p, 720p / 5, 10, 15, 30fps Max. number of frames: 9999
Slow motion	Available
Vertical Video	Available Video files are saved vertically when holding the camera vertically to shoot. Videos are not played in the vertical orientation on the camera.

Sound Recording System

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

View Images

Modes	Calendar, Enlargement, Index, Movie, Single-frame
Shooting information	Off / On
Highlight/Shadow point warning	Available
Histogram in playback mode	Available

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

Customisation Options

Programmable button	Equipped
Fn Button	Equipped
My Mode	4 settings storable (Can be set to mode dial.)
Factory reset	Full / Basic
Menu languages in camera	Czech, Dutch, English, Finnish, French, German, Italian, Japanese, Norwegian, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish

Interface

Earphone jack	3.5 ø mm mini-jack
Synchro socket	Equipped
HDMI™	Applied Micro connector (Type D) *
Microphone jack	3.5 ø mm mini-jack
USB 3	Type C
Wireless connectivity	Bluetooth®, Wi-Fi

Communication method	Bluetooth® Low Energy Ver.4.2
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.
SAR	0.52W/kg
Note	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.
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)
Note	* "HDMI", the HDMI logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC. 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. Wi-Fi is a registered trademark of the Wi-Fi Alliance.

Wi-Fi Functions

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

Tough Features

Weatherproof	Dustproof, Freezeproof, Splashproof
Weatherproof Construction	Splashproof / Dustproof
Note	IEC Standard publication 60529 IP53 (applies when the body is used with splashproof lens. When used with IP53 lens, performance is IP53, when used with IPX1 lens, performance becomes IPX1.)
Freezeproof	-10°C

Power Supply

Battery life

Image shooting	520 shots (using BLX-1 under CIPA testing conditions) 1100 shots (using quick sleep mode, under Olympus testing conditions based on CIPA test standards)
Movie recording	90min (standard JEITA conditions) 160min (when zoom and other operational functions are not used) * Note: Values are approximate.
Battery	BLX-1 Lithium-Ion Battery
Internal Charging	USB
Sleep mode	1, 3, 5min. and off selectable.
USB bus power	USB PD bus power can be used (PD compliant camera: Rev 3.0 Ver 1.0a)
USB charging	Performance varies depending on different USB devices
USB Charger	Charger not included Min/Max power requirement
Power Consumption	(according to Ecodesign regulation 2023/826) Power (W) / Transition time (min)
Off	0 / 1
Stand by	- / -
Network Stand by	0 / 1

Dimensions / Weight

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

Environment

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

Exterior

Available Colours	Black

Product safety

Importer	OM Digital Solutions GmbH Willy-Brandt-Strasse 23 20457 Hamburg, Germany mail: imprint@om-digitalsolutions.com
Manufacturer	OM Digital Solutions Corporation 49-3 Takakura-machi, Hachioji-shi, Tokyo 192-0033, Japan mail: imprint@om-digitalsolutions.com

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