← OM-D E-M10 Mark IV technical specifications

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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	Engineering plastics
Lens mount	Micro Four Thirds

Image Sensor

Type	4/3'' Live MOS sensor
Effective pixels	20.3 Megapixels
Full resolution	21.8 Megapixels
Aspect ratio & area	4:3 / 17.3 x 13.0mm
Filter array	Primary colour filter (RGB)

Engine

Type	TruePic VIII

Dust Reduction System

Dust reduction filter	Supersonic Wave Filter

Viewfinder

Type	Electronical Viewfinder
Pixel number	2360K dots
Magnification	Max. 1.23x with a 50mm lens set to infinity at -1 dioptre
Angle of view	Approx. 100%
Brightness adjustment	Adaptive Brightness Technology / Manual settings: +/- 2 levels
Correction of color temperature	+/- 3 levels
Diopter adjustment	-4.0 - +2.0 diopters / built-in type
Eye point	19.2mm at -1 dioptre from eyepiece lens
Displayed information	AE lock, AF confirmation mark, AF frame (super impose), AF lock, Aperture value, Auto bracket, Battery check, Exposure compensation indicator, Exposure compensation value indicator, Exposure level indicator, Exposure mode, Flash, FP flash, Highlight & Shadow, Histogram, IS activating mode, Level Gauge, Live Pre-view function, Metering mode, Number of storable sequential pictures, Shutter speed, White balance

Monitor

Monitor type	Tiltable LCD - Touch Panel
Resolution	1037K dots
Monitor size	7.6cm / 3.0'' (3:2)
Tilt angle	80° (up) 180° (down)
Brightness adjustment	+/- 7 levels
Color balance	+/- 7 levels Vivid (default) / Natural
Touch Control functions	AF area enlargement, AF area selection, Art Filter, Enlargement, Frame forward/ backward, Live Guide, Magnified playback, Scene Modes, Shooting mode, Shutter release, Super Control Panel, Wi-Fi connection

Level Gauge

Detection	2-axis
Display	Rear display and viewfinder

Live View

Field of view	Approx. 100%
Magnification levels	5 / 7 / 10 / 14x
Displayed information	AE lock, AF confirmation mark, AF frame display, Aperture, Auto bracket, Battery check, Custom, Exposure compensation value, Face / Eye detection mode, Face detection, Flash intensity, Flash mode, Flash status, Focal length, Focus mode, Focus peaking, Highlight & Shadow, Histogram, IS activating mode, ISO, Level Gauge, Metering mode, Number of storable pictures, Record mode, Sequential shooting mode, Shooting information, Shooting mode, Shutter speed, Spot metering area, Super FP, Touch Panel Condition, White Balance, Wi-Fi

Image Stabiliser

Image Stabilisation	Built-in 5-axis Up to 4.5 EV steps*
Type	Sensor shift
Modes	Five-dimensional, vertical or horizontal activation, automatic
Lens IS priority	Available
Live View stabilisation	Available
Effective Compensation Range	Up to 4.5 EV steps* CIPA *When using M.Zuiko Digital ED 14-42mm F3.5-5.6 EZ (focal length =42mm (35mm equivalent: 84mm))

Focusing System

Method	Contrast Detection AF system
Modes	AF Tracking, Continuous AF, Face Detection AF, Manual focus, Single AF, Single AF + MF, Super Spot AF
Predictive AF	Available

Face Detection extension	Eye Detect AF: Off, Near side priority
Manual focus	Available, With enlarged focusing area or focus peaking
Focus areas	121 points / All target, Group target (9-areas), Single target
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 tracking	Available, Available in continuous AF mode

Exposure System

Modes	Advanced Photo Modes, Aperture priority, Art Filter, Bulb, i-Auto, Live Composite, Live Time, Manual, Movie, Programme automatic, Scene select, Shutter priority, Time
Exposure compensation	+/- 5 EV (1/3 steps) Note: Movie shooting, monitor and EVF displays only up to ±3 EV .
AE lock	Available

Advanced Photo Modes

Modes	AE bracketing, AF bracketing, HDR Backlight*, Keystone Compensation, Live Bulb, Live Composite, Multiple Exposure, Panorama, Silent
Note	* 4 images automatically shot and combined into a single image composite

Scene Modes

Number of scene modes	21
Modes	Backlight HDR, Beach and Snow, Candle, Children, Documents, e-Portrait, Fireworks, Hand-held Starlight, Landscape, Landscape with Portrait, Light trails, Macro, Multi Focus, Nature Macro, Night Scene, Night Scene with portrait, Panning, Portrait, Silent mode, Sports, Sunset

Multi-Exposure

Max. number of frames	2 frames (shooting)
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

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

Sensitivity

Auto	ISO LOW* - 6400
Note	*approx. 100
Manual	ISO LOW - 25600 (adjustable in 1/3 EV step)

Shutter

Shutter type	Computerised focal-plane shutter
Modes	Self timer, Sequential shooting, Single frame

Self timer	2s / 12s / Custom

Shutter Speeds

Standard operation

Shutter speed range	1/4000 - 60s (in 1/3 EV steps)
Bulb mode	Up to 30 minutes (selectable longest time in the menu, default: 8 minutes)

Anti-shock mode

Shutter type	Electronic first curtain shutter
Shutter speed	1/320* - 60s
Note	* For speeds over 1/320 sec., mechanical shutter will automatically be selected.

Silent mode

Shutter type	Electronic shutter
Shutter speed	1/16000 - 60s

White Balance

Auto Flash adjustment	Off / Auto WB / Flash
Keep warm color	On / Off
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

Sequence Shooting

Speed (H)	Approx. 8.7fps

Speed (L)	5fps (IS on)

Silent mode

Speed (H)	Approx. 15fps Max. number of frames: RAW 42 / JPG (LF): 49
Speed (L)	Approx. 6.3fps Max. number of frames: RAW 945 / JPG (LF): Up to card capacity
Conditions	Memory card: Toshiba SDHC UHS-II SDXU-D032G Note: Depending on shooting conditions, the sequential shooting speed may reduce speed during shooting.
Max. number of frames	Up to card capacity (RAW) Up to card capacity (JPG / Large Normal mode)

Image Processing

Art Filter bracketing	Available

Flash

Type	Built-in
Modes	AUTO, Fill-in, Manual, Manual (Full, 1/4, 1/16, 1/64), Off, Red-eye reduction, Slow synchronisation, Slow synchronisation 2nd curtain, Slow synchronisation with red-eye reduction, TTL-Auto
Guide number	7.2 (ISO 200)
Flash compensation	+/- 3 EV / 1/3 EV steps
X-sync speed	1/250s / 1/4000s (Super FP Mode)

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 / 1/4000s (Super FP Mode)

Compatible external flash	FL-14, FL-20, FL-36R, FL-50R, FL-300R, FL-600R, FL-700WR, FL-900R, STF-8
Note	Note: Some functions are only available if they are supported by the external flash.

Wireless Flash Control

	Available when used together with flashes from the OM System (Olympus) wireless RC flash system.
Modes	Auto, FP Manual, FP TTL, FP TTL Auto, Manual
Optical control	
Control method	Triggered and controlled (OM System (Olympus) Wireless RC Flash system) Commander flash: FL-900R, FL-700WR, FL-600R, STF-8 (no control with internal flash)
Compatible external flash	FL-36R, FL-50R, FL-300R, FL-600R, FL-700WR, FL-900R
Radio control	
Radio wireless control	Available when attaching optional flash commander.
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

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

EXIF	2.3

Movie Recording System

Recording format	MOV(MPEG-4AVC/H.264)
Exposure Modes	Art Filter, Programme automatic
Image Stabilisation Mode	Applied Hybrid sensor shift + digital (5-axis)
Video Quality	4K, Full HD, High Speed Movie HD
4K Movie quality	3840 x 2160 (4k) / 30p, 25p, 24p / IPB (approx. 102Mbps)
HD Movie quality	Full HD 1920 x 1080 (16:9) / 30p, 25p, 24p (MOV) Full HD 1920 x 1080 (16:9) / 60p, 50p / IPB (F,N) / (MOV) (MOV) HD 1280 x 720 (16:9) / 60p, 50p, 30p, 25p, 24p (MOV)
Maximum Recording Time	29min (MOV)

Movie Specialties

Art Filter	Bleach Bypass, Cross Process, Diorama, Dramatic Tone, Gentle Sepia, Grainy Film, Key Line, Light Tone, Pale & Light Colour, Pin Hole, Pop Art, Soft Focus
Note	* Not available for 4K and High Speed movies
Note	* Frame rate may drop when using certain art filter
High-Speed Recording	720P / 120fps
Time lapse	4k, 1080p, 720p Available

Sound Recording System

Recording format	Stereo PCM/16bit, 48kHz, Wave Format Base
Speaker	Equipped
Image footage	30s
Internal microphone	Stereo

Microphone functions	Recording Volume, Wind Noise Reduction

View Images

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

Erase / Protect / Copy Function

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

Customisation Options

Programmable button	Equipped
Fn Button	Equipped
Factory reset	Full / Basic
Menu languages in camera	Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Turkish, Ukrainian

Interface

Hot shoe	Equipped
HDMI™	Applied Micro connector (Type D) *
USB 2.0 High Speed	Applied

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
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
GPS info	Available through Smartphone GPS data
Image Share	Automatic transfer is possible via Share Order JPEG, MOV
Wireless Shooting	Aperture priority, Bulb mode, Live Composite, Live View, Manual, P/A/S/M exposure modes, Power off, Rec View, Self timer, Touch AF & Shutter, Zoom

Power Supply

Movie recording	80min (standard JEITA conditions) 140min (When repeatedly recording at the maximum time of 29 minutes, using M.Zuiko Digital ED 14-42mm F3.5-5.6 EZ, 4K video shooting)
Battery	BLS-50 Lithium-Ion Battery (included)
Live View shooting	Approx. 360 images (50% with Live View) (using BLS-50 and TOSHIBA SD with IS ON, based on CIPA testing standards)
Sleep mode	1, 3, 5, 10 min. and off selectable.

Dimensions / Weight

Width	121.7mm
Depth	49mm
Height	84.6mm

Weight	383g (including battery and memory card)

Environment

Humidity	30 - 90% operation humidity / 10 - 90% storage humidity
Temperature	0 - 40°C Operating temperature / -20 - 60°C storage temperature

Exterior

Available Colours	Black, Silver

Product safety

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