

Olympus OM-D E-M10 Mark III SPECIFICATIONS

Sensor / Dust Reduction

Sensor Type	4/3" Live MOS Sensor
Effective Pixels	16.1 million
Total Pixels	17.2 million
Aspect Ratio & Area	4:3 / 17.4 x 13.0mm
Dust Reduction	Super Sonic Wave Filter

Processor

Processor Type	TruePic™ VIII
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Focusing System

AF System Type	High-speed imager AF
Focus Modes	Single AF (S-AF) / Continuous AF (C-AF)*1 / Manual Focus (MF) / S-AF + MF / AF tracking (C-AF + TR)*1 *1 While Four-Thirds lens is attached, only S-AF (single target) or MF for video are available.
Magnified Frame	3x, 5x, 7x, 10x, 14x *Autofocusing is possible in the magnified frame; can be assigned to button to turn magnify frame AF on and to activate magnification; touch icon on monitor to turn off; enables selection of AF point from over 800.
Super Spot AF	Available*(Contrast AF in center of the monitor when magnified) *Available only when a Micro Four Thirds lens is attached.
Face priority AF / Eye priority AF	Available Eye priority AF mode : off / nearer-eye priority
Focusing Points / Focusing Points Selection Mode	121-point contrast AF All target, group target (9-area), single target
AF Illuminator	Available
AF Targeting Pad	Available (activate / deactivate with double tap on rear monitor)
Manual Focus Assist	Focus ring rotation activates Live View image magnification and/or focus peaking when in S-AF+MF or MF mode
Peaking Function	Activate with Fn button or focus ring Change peaking settings using the Info button Color selection: white, black, red, yellow

Image Stabilization

System Type	Built-in 5-axis sensor-shift image stabilization for video and still photos (compensates for yaw, pitch, roll, vertical shift, horizontal shift)
Modes	S-IS ON(AUTO), OFF
Live View Image Stabilization	Activation by half-pressing shutter button or enlarging view
Focal Length Setting	1 setting
Stabilization Performance	4.0 EV steps* *Based on CIPA measurement conditions. When using M.Zuiko Digital ED 14-42mm F3.5-6.3 EZ (focal length =42mm (35mm equivalent with 84mm))
Available manual focal length setting	Input focal length: 0.1 to 1000 mm (0.1 step)
Lens IS Priority	Cannot be activated from camera. Lens IS has priority over camera body IS when the IS switch on the lens is turned to ON. When lens IS has priority over camera body IS, camera body IS functions as follows: - when Olympus lens is attached: compensates for camera roll - when third party lens is attached: does not function

Shutter / Sequential Shooting

Shutter Type	Computerized focal-plane, high-speed mechanical shutter Silent electronic shutter
Shutter Speed	Mechanical Shutter: 1/4000 - 60 sec. (1/3 EV steps selectable) Live Bulb/Live Time: Max. 30 min. (selectable in menu settings, with 8-min. default setting) Live composite: Max. 3 hours Electronic first curtain shutter (Anti-shock mode) : 1/320 - 60 sec Electronic shutter (Silent mode): 1/16000 - 30 sec
Silent Mode	Available as "Silent" in Scene mode and Advanced photo mode. (sound, AF illuminator and flash are set to OFF as default settings.)
Sequential Shooting Maximum Speed	[Sequential shooting H mode] approx 8.6 fps (IS ON/OFF) *Focus and exposure are fixed at the values for the first shot. [Sequential shooting L mode] approx 4.8 fps (IS ON/OFF) *When using the M.ZUIKO DIGITAL ED 14 - 42mm f/3.5-5.6 EZ *SS=1/250
Max. Recordable Pictures in Sequential Shooting	[RAW] Max. ∞ frames (in seq. shooting L) Max. 22 frames (in seq. shooting H) [JPEG; LN] Max. ∞ frames (in seq. shooting L) Max. 36 frames (in seq. shooting H) * When using the M.Zuiko Digital ED 12-40mm f/2.8 Pro * With TOSHIBA SDHC UHS-II R260 · W240 EXCERIA™ PRO
Self Timer	Operation time: 12 sec., 2 sec., custom (Wait time: 1-30sec., Shot interval: 0.5/1/2/3sec., Number of shots: 1-10)

Viewfinder / Monitor

Finder Type	Eye-level electronic viewfinder, approx. 2.36M dots
Field of View / Viewfinder Magnification	Approx. 100% / Approx.1.23x (50mm lens, Infinity, -1m-1)
Eye Point / Diopter Adjustment Range	Approx. 19.2mm (-1m-1, Distance from rear lens surface) / -4 ~ +2m-1
Preview	Live View preview (without depth of field preview lock)
Live View Boost	Available *Exposure compensation will not be applied
Display Grid	Off / normal grid / trichotomy /golden grid / scale / diagonal / movie grid
Level Gauge	2-axis (horizontal / vertical) level gauge
Finder Style	1 style
Brightness / Color Temp Control	Adaptive brightness technology, ±2 level manual control /±3 level manual control
Eyecup	EP-16 eyecup is separately available
Rear Monitor Size	3.0-inch tilting monitor* *Approx.1040k dots (3:2), electrostatic capacitance touch panel
Touch Control	Shutter release, AF area selection, AF area size adjustment, AF touch pad, frame forward/backward, magnified playback, Live Guide, Super Control Panel, Art Filter, Scene, Wi-Fi connection, video controls, video effects, video teleconvertertimer)
Tilting Capability	Upward tilting angle : up to 85 degrees Downward tilting angle : up to 45 degrees
Brightness / Color Temp Control (Rear Monitor)	±7 levels / ±7 levels
Color Tone Select	Vivid / Natural

Live View	Approx. 100% field of view, exposure compensation preview, WB adjustment preview, gradation preview, face detection preview (up to 8 faces), grid line, magnification display (x3/x5/x7/x10/x14),
Display Mode	Display modes: Standard, Histogram, Highlight & Shadow, Level Gauge, Off (Image Only)
Exposure Control / Flash	
Metering System	Digital ESP metering (324-area multi pattern metering), center-weighted average metering, spot metering, spot metering with highlight control, spot metering with shadow control
Metering Range	EV -2 - 20 (using f2.8 lens, ISO 100)
Exposure Mode / Shooting Mode	Auto (Live Guide can be used) , P: Program AE (program shift can be performed), A: Aperture Priority AE, S: Shutter Priority AE, M: Manual (Live Bulb, Live Time and Live Composite are available), Scene Select AE, Advanced Photo AE, Art Filter
Scene Select AE	[Advanced Photo] Live Composite, Live Bulb, Multiple Exposure, HDR Backlight*1, Silent, Panorama, Keystone Compensation, AE Bracketing, Focus Bracketing [Scene] (Portrait, e-Portrait, Landscape + Portrait, Night + Portrait, Children, Night scene, Sport, Hand-held Starlight*2, Fireworks, Light trails, Sports, Panning, Landscape, Sunset, Beach & Snow, Backlight HDR*1, Candlelight, Silent, Macro, Nature Macro, Documents, Multi Focus Shot) *1 4 images automatically shot and combined into a single image composite *1 8 images automatically shot and combined into a single image composite
ISO Sensitivity	AUTO ISO (default) : LOW (approx.100) - 6400 with customizable upper limit (200 - 25600) Manual ISO : LOW (approx.100), 200 - 25600 (adjustable in 1/3 steps)
Exposure Compensation	±5 EV, adjustable by 1/3 EV steps When shooting in HDR or in video, only adjustable up to ±3 EV steps Live View only reflects up to ±3 EV steps
AE Lock	Locks with a half-press of the shutter button , AEL/AFL button(can be set to Fn button as well)
Flash Intensity Control Mode	TTL Auto, Auto*, Manual, Super FP*(FP-TTL AUTO, FP-MANUAL) * Available on the external flash
Built-in Flash	TTL Flash, GN=5.8 (ISO100 · m) / GN= 8.2 (ISO200 · m)
Flash Mode	Flash Auto*, Redeye, Slow Sync.(1st curtain), Slow Sync.(2nd curtain), Red-eye Slow Sync.(1st curtain), Fill-in, Manual (1/1 (FULL) ~ 1/64) , Flash Off. *AUTO and SCN only
Synchronization Speed	1/250 sec.* *Super FP:1/125-1/4000sec *FL-50R: 1/180 sec. Others: 1/200 sec.
Flash Intensity Control	Up to ±3 EV in 0.3EV steps
Compatible External Flash	FL-50R, FL-36R, FL-20, FL-14, FL-300R, FL-600R, FL-900R, STF-8, FL-LM3
Memory / Image Recording (File Format)	
Compatible Memory	SD (SDHC, SDXC, UHS-I, UHS-II, Eye-Fi Card*1 compatible) *1 Not compatible with Endless Memory.
Recording Format	DCF2.0, Exif2.3
File Format	RAW (12-bit lossless compression), JPEG, RAW + JPEG
Recording Image Size	[RAW] 4608 x 3456 pixels [JPEG] 4608 x 3456 pixels - 1280 x 960 pixels
White Balance / Color Mode	
White Balance Mode	Auto WB, 6 Preset WBs, 4 Capture WBs, Custom WB(Kelvin setting)
White Balance Compensation*	±7 steps in each A-B/G-M axis * Except for Custom WB
Color Mode	sRGB, Adobe RGB
Bracketing / HDR	
Exposure Bracketing	Available as AE Bracketing in Advanced Photo mode. 3 frames in 1.0 EV steps, 5 frames in 0.7 EV steps.
Focus Bracketing	Available as Multi Focus Shot in Scene mode and Focus Bracketing in Advanced Photo mode. Shoots 8 frames. When in Advanced Photo mode, focus steps can be adjusted in 2 levels. Compatible with Micro Four Thirds lenses only.
HDR (Auto Composite)	Available as Backlight HDR in Scene mode and HDR in Advanced Photo mode. ISO sensitivity is fixed at 200, and maximum shutter speed setting is 4 seconds. HDR1 is available in both modes. HDR2 (painting-like) is available in Advanced Photo mode only. Exposure compensation can be performed in Advanced Photo mode only.
Creative Features	
Picture Mode	i-Enhance, Vivid, Natural, Muted, Portrait, Monotone, Custom, e-Portrait, color creator, Art Filters
Gradation	Auto, Normal, High Key, Low Key [except i-Enhance, Art Filters, color creator]
Highlight & Shadow Control	±7 steps each for highlight, shadow, midtone
Picture Tone	Neutral, Sepia, Blue, Purple, Green for Monotone
Art Filter (Variation / Art Effect)	Pop Art (I, II / a.b.c.d.e) Soft Focus (- / c.e) Pale & Light Color (I, II / a.b.c.d) Light Tone (- / d) Grainy Film (I, II / b.c.d.f.g) Pin Hole (I, II, III / d.) Diorama (- / d.) Cross Process (I, II / b.c.d.) Gentle Sepia (- / a.b.c.d.f.) Dramatic Tone (I / b.c.d.e.f.) (II / b.c.d.e.f.g.h) Key Line (I, II / a.b.c.d.e.) Watercolor (I, II / a.b.c.d.) Vintage (I, II, III / a.b.c.d.e.f.i) Partial Color (I, II, III / a.b.c.d.e.f) Bleach Bypass (I, II, a, b, c, d, e, f, i)
Art Effect	a. Soft Focus Effect b. Pin-Hole Effect c. White Edge Effect d. Frame Effect e. Star Light Effect f. Blur Effect (Top & bottom, Left & Right) g. B&W Effect (None, Yellow, Orange, Red, Green) h. Picture Tone (None, Sepia, Blue, Purple, Green) i. Shade Effect (Top & bottom, Left & Right)

Color Creator	Color pattern : 30 colors / Saturation setting -4 ~ +3
Multiple Exposure	2 frames / Auto gain,
Live Bulb / Live Time	0.5 sec - 60 sec
Live Composite	0.5 sec - 60 sec / Lighten Mode (Bright area prioritization)
Interval Shooting	Interval Time 1sec. - 24 Hours, Max 999 frames. Available on making Time-lapse movie automatically
Keystone Compensation	With (can be confirmed in Live View) *Horizontal and vertical compensation can be performed simultaneously by +-20 steps.
Video / Audio Recording	
Video Recording Format	MOV(MPEG-4AVC/H.264)
Movie Mode / Frame Rate / Compression Method	3840 × 2160 (4K) / 30p, 25p, 24p / IPB (approx. 102 Mbps) 1920 x 1080 (FHD) / 30p, 25p, 24p / IPB (SF, F, N) 1920 x 1080 (FHD) / 60p, 50p / IPB (SF, F, N) 1280 x 720 (HD) / 30p, 25p, 24p / IPB (SF, F, N) 60p : 59.94 fps, 50p : 50.00 fps, 30p : 29.97 fps, 25p : 25.00 fps, 24p : 23.98 fps, C4K 24.00 fps FHD IPB (SF: SuperFine / approx. 52 Mbps, F: Fine / approx.. 30 Mbps, N: Normal / approx. 18 Mbps) HD IPB(SF : SuperFine / approx.26Mbps, F:Fine / approx.14Mbps、N : Normal / approx.10Mbps) *Frame rates may drop when particular Art Filters and Movie Effects are used. *Class 10 or higher SD card is recommended for shooting movies. *UHS-II or UHS-I U3 card is recommended for 4K shooting.
Maximum Video Recording Time	[MOV] Approx.. 29min
Movie Tele-converter	Approx. 4x (enlarges view of selected area)
Art Filter Movie	Available (Frame rates may drop when certain Art Filters are used)
Movie Effect	One-shot Echo / Multi-echo / Art Fade / Old Film
Timelapse Movie	[MOV] 3840×2160 (4K) / 5fps 1920×1080 (FHD)/ 5fps、10fps、15fps 1280×720 (HD)/ 5fps、10fps、15fps、30fps
IS for Movie	M-IS1*(Image sensor shift and electronic image stabilizer with multi motion IS), M-IS2(Image sensor shift with multi motion IS), Off *While using M-IS1, field of view may be affected.
AE Lock	Available
Video Exposure Control	Program AE, aperture priority AE, shutter priority AE, manual
Grid Lines / Focus Peaking	4 types of grid lines / 4 colors for focus peaking
Clips	1, 2, 4, 8 sec. (Further continued shooting possible up to 16 seconds by pressing video record button again)
High Speed Movie	120 fps (1280X720, MOV)
Live View Output via HDMI	Monitor Mode (outputs video and info display to a connected monitor) *1 *1 Camera display is turned off when connected by HDMI.
Audio Recording Format	Wave Format (Stereo linear PCM/16-bit, Sampling frequency 48kHz)
Microphone / Speaker	Built-in stereo microphone / built-in mono speaker *External stereo microphone can be attached
Microphone Function	Wind noise reduction, recording volume Audio dubbing possible for still pictures (up to 30 sec.) *May affect audio quality.
Operability	
Wi-Fi	Easy Connection QR code setting Live View, rec view, wireless touch AF shutter, self timer (w/countdown guidance, sequential shooting, video recording capability), wireless release, video recording, power off Auto / SCN / ART / P / A / S / M (Live Bulb, Live Time, Live Composite) and drive mode can be selected.* Aperture, shutter speed, exposure, ISO sensitivity, white balance can be adjusted.* *When in private connection
Playback Mode	Single-frame, information display, index display (4/9/25/100 frames), Clips, calendar, enlargement (2x - 14x), video (with sound, FF/REW/Pause), picture rotation (auto), slideshow (with sound including BGM, Slide show effects, replaceable BGM), Light Box display
Dial Customization	Dial function is customizable for both dials
Button Customization	Can select from 11 functions to assign to buttons.
Copyright Settings / Lens Info Settings	With / Without
Image Editing Functions	RAW data edit, Gradation auto, Monochrome, Sepia, Red-eye fix, Saturation, Resize (1280x960, 640x480, 320x240), Trimming, Aspect, e-Portrait, Image Overlay, Post recording RAW data edit based on settings of the camera (including e-Portrait, Color Creator, Art Filter, ART-BKT). Preview capability.
Video Editing Functions	Trimming (beginning / end) / in-video image extraction (4K only)
Menu Languages (34 selectable)	34 languages selectable : - English, French, German, Spanish, Italian, Japanese, Korean, Traditional Chinese, Simplified Chinese, Russian, Czech, Dutch, Danish, Polish, Portuguese, Swedish, Norwegian, Finnish, Croatian, Slovenian, Hungarian, Greek, Slovakian, Turkish, Latvian, Estonian, Lithuanian, Ukrainian, Serbian, Bulgarian, Rumanian, Indonesian, Malay, Thai
Connectivity / Power Requirements	
USB Connector	USB Micro-B
Remote Connector	Not Available
HDMI Connector	Micro HDMI (type D)
Flash Attachment	Hot shoe
Wireless LAN	Built-in (IEEE 802.11b/g/n)
PC Interface	USB 2.0 Hi-Speed
TV Interface	Not Available
Battery	BLS-50 Li-ion battery (included)
Battery Status Display	Remaining power (4 steps)
Sleep Mode	Available (1/3/5 min. off)
Number of Recordable Pictures	Approx.330 shots when using BLS-50, with Live View constantly on, using M.ZUIKO DIGITAL ED 14-42mm F3.5-5.6 EZ and TOSHIBA SD card, based on CIPA testing standards

Battery Life for Movie Recording	Approx. 80 minutes* (under standard JEITA testing) Approx. 140 minutes* (when zoom and other operational functions are not used) *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.
Weights & Dimensions / Operating Environment / Box Contents	
Weight	Approx. 410 g (with BLS-50 battery and Memory card, based on CIPA standards) Approx. 362 g (body only)
Dimensions	W:121.5mm H:83.6mm D:49.5mm (based on CIPA standards: excludes protrusions)
Operating Temperature Range	-10°C ~ +40°C (when in operation) / -20 ~ +60°C (when stored)
Operating Humidity Range	30 - 90% (when in operation) / 10 - 90% (when stored)
Box Contents	Body, USB cable, shoulder strap, instruction manual, warranty card, BLS-50 Li-ion battery , BCS-5 Li-ion battery charger