

Olympus OM-D E-M1X SPECIFICATIONS

Sensor / Dust Reduction

Sensor Type	4/3" Live MOS Sensor
Effective Pixels	20.4 million
Total Pixels	21.8 million
Aspect Ratio & Area	4:3 / 17.4 x 13.0mm
Dust Reduction	Super Sonic Wave Filter

Processor

Processor Type	Dual TruePic™ VIII
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Focusing System

AF System Type	High-speed imager AF: Imager phase detection AF and imager contrast AF used in combination; When a Micro Four Thirds lens (mount adapter sold separately necessary) is attached, imager phase detection AF is always enabled).
AF Working Range	EV -3.5~20 (ISO approx.100, with a f/2.8 lens)
Focusing Points / Focusing Points Selection Mode	121-point cross-type phase detection AF and 121-point contrast AF / All target, single target (normal / small), group target (5-area / 9-area / 25-area), custom target 1-4 (AF area and its increment steps selectable) Single AF (S-AF)*1 / Continuous AF (C-AF)*1 / Manual Focus (MF) / AF tracking (C-AF + TR)*1 / Preset MF*2
Focus Modes	*1 AF+MF selectable *2 Distance setting values are rough estimates and not compatible lens except the AF lens.
AF Limiter	Available (Fn button can be assigned to On/Off; can save 3 distance settings) *Distance setting values are rough estimates.
AF Performance	C-AF lock (5 steps) , AF scanner (3 types) , C-AF Center Priority , C-AF Center Start 3x , 5x , 7x , 10x , 14x
Magnified Frame	*Autofocusing is possible in the magnified frame; can be assigned to button to turn magnify frame AF on/off and to activate magnification; touch icon on monitor to turn off; enables selection of focusing point from 800 or more.
Super spot AF	Available*(Contrast AF in center of the monitor when magnified) *Available only when a Micro Four Thirds lens is attached.
Face Detection AF / Eye Detection	Available Eye Detection AF mode : off / nearer-eye priority / right-eye priority / left-eye priority
Intelligent Subject Detection AF	Available Formula cars, rally cars, motorcycles, aircrafts, helicopters, bullet trains, standard trains, steam locomotives
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	<p>Activate with Fn button or focus ring</p> <p>Change peaking settings using the Info button</p> <p>Color selection: white, black, red, yellow</p> <p>Intensity selection: high, normal, low</p> <p>Back light effect: on, off</p>
AF Focus Adj.	<p>Adjust all, adjust by lens</p> <p>(for Phase detection AF only)</p>
AF Illuminator	Available
Image Stabilization	
System Type	<p>Built-in 5-axis* sensor-shift image stabilization for movie and still photos</p> <p>*yaw/pitch/roll/vertical shift/horizontal shift</p>
Modes	4 modes (S-IS AUTO, S-IS1, S-IS2, S-IS3), OFF
Live View Image Stabilization	Activation by half-pressing shutter button or pressing AEL/AFL button, enlarging view
Focal Length Setting	11 settings: 10 programmable settings (10 lenses), 1 open setting
IS for Live View Image	Activation by half-pressing shutter button or enlarging view
5-Axis Sync IS	<p>Available*</p> <p>*When using M.Zuiko Digital lenses equipped with image stabilization</p>
Stabilization Performance	<p>7.0 EV*</p> <p>*Based on CIPA measurement conditions.</p> <p>When using M.Zuiko Digital ED 12-40mm f/2.8 PRO (focal length =40mm (35mm equivalent: 80mm))</p> <p>7.5 EV*</p> <p>*Based on CIPA measurement conditions.</p> <p>When using M.Zuiko Digital ED 12-100mm f/4.0 PRO (focal length =100mm (35mm equivalent: 200mm)), with camera body IS set to Off, Frame rate: High</p>
Lens IS Priority	Available
Shutter / Sequential Shooting	
Shutter Type	<p>Focal-plane shutter (mechanical shutter): 1/8000 - 60 sec., with selectable EV adjustment steps (1/3, 1/2, 1)</p> <p>*Live Bulb / LiveTime: selectable exposure time (1/2/4/8/15/20/25/30 min.), with 8-min. default setting</p> <p>*Live Composite: 3 hours maximum shooting time</p> <p>Electronic first curtain shutter (Anti-shock mode) : 1/320 - 60 sec</p> <p>Electronic shutter (Silent mode): 1/32000 - 60 sec</p> <p>Flicker Scan: Video recording 1/30 (50fps:1/50, 60fps:1/60, Highspeed: 1/120) -1/250.0 Still 1/50.0-1/7634</p> <p>*Video recording S/M mode, Still S/M silent mode only. Selectable with a minimum of 0.1</p>

[Sequential shooting H] approx. 15 fps with selectable 10-15 fps
[Sequential shooting L] approx. 10 fps with selectable 1-10 fps
[Anti-shock sequential shooting L] approx. 8.5 fps with selectable 1-8 fps
[Silent sequential shooting H] approx. 60 fps with selectable 15, 20, 30, 60 fps
[Silent sequential shooting L] approx. 18 fps with selectable 1-10, 15, 18 fps
[Pro Capture H] approx 60 fps with selectable 15, 20, 30, 60 fps
[Pro Capture L] approx 18 fps with selectable 1-10, 15, 18 fps

*When using the M.ZUIKO DIGITAL ED 12-40mm f/2.8 PRO
*Maximum sequential shooting speed may be affected by several factors including lens used, brightness, aperture, shutter speed, and ISO setting
*When in Pro Capture mode, slower shutter speeds and flash can not be used
*Pro Capture L mode is available when using an Olympus Micro Four Thirds lens
*In Pro Capture L mode, the minimum aperture is f/8.
*When ISO is 8000 or above, 30 fps becomes the maximum sequential shooting speed, and the actual shooting speed may become slower than the set shooting speed by a few frames per second. When using ISO Bracketing, performance will be affected at ISO 2000 or above
*Focus and exposure are fixed at the values of the first shot when using sequential shooting H
*Maximum sequential shooting speed is 8.5 fps for anti-shock sequential shooting L, even when set to 9 or 10 fps

[Sequential shooting H 15 fps] RAW: Max. 103 frames, JPEG (LF): Max. 132 frames
[Sequential shooting L 10 fps] RAW: Max. 287 frames, JPEG (LF): Until card is full
[Silent sequential shooting L 60 fps] RAW: Max. 49 frames, JPEG (LF): Max. 49 frames
[Silent sequential shooting L 18 fps] RAW: Max. 74 frames, JPEG (LF): Max. 89 frames

*When using the M.Zuiko Digital ED 12-40mm F2.8 PRO and the Toshiba SDXU-D032G memory card with standard card setting in slot 1.
*Low ISO processing: Priority is given to sequential shooting

1 - 99 frames

Number of frames recorded prior to full-press of the shutter button can be set from 0 to 35 frames.

Operation time: 12 sec., 2 sec., custom (Wait time: 1-30sec., Shot interval: 0.5/1/2/3sec., Number of shots: 1-10, Every time AF: ON/OFF)

Sequential Shooting Maximum Speed

Max. Recordable Pictures in Sequential Shooting

Sequential Shooting Frame Count

Pre-shutter Frames

*For Pro Capture mode only

Self Timer

Viewfinder / Monitor

Finder Type

Eye-level electronic viewfinder, approx. 2.36M dots

Field of View / Viewfinder Magnification	Approx. 100% / Approx. 1.48x*1 - 1.65x*2 (-1m-1, 50mm lens, Infinity) *1: Finder Style 1, 2 (aspect ratio 4:3) *2: Finder Style 3 (aspect ratio 4:3)
Eye Point / Diopter Adjustment Range	Approx. 21mm (-1m-1, Distance from rear lens surface) / -4 ~ +2m-1
Preview	Live View preview with depth of field preview lock
Display Grid	Off / normal grid / trichotomy / golden grid / scale / diagonal / movie grid *grid color is selectable
Level Gauge	2-axis (horizontal / vertical) level gauge
One Touch Tele-Converter	Available (2x)
Finder Style	3 styles
Brightness / Color Temp Control	Adaptive brightness technology (EVF Auto Luminance) / ±7 level manual brightness control / ±7 level manual color temperature control
S-OVF (Simulated OVF)	Expands the Live View dynamic range. *Available in the EVF when in P, A, S and M modes. Art filter, WB and exposure are not reflected in EVF.
Rear Monitor Size	3.0-inch vari-angle monitor* *Approx.1037k dots (3:2), electrostatic capacitance touch panel
Touch Control	Shutter release, Touch AF (AF area selection, AF area size adjustment) AF targeting pad, frame forward/backward, magnified playback, Super Control Panel, Wi-Fi connection, movie controls
Tilting Capability	Available (mirror display when monitor is in self portrait position)
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), Live View Boost 1 , Live View Boost 2* (For dark situations)
Live View Boost	*Settings can be specified for each shooting mode *Live View Boost 2: Frame Rate Priority or Quality Priority selectable *Off: Brightness in Live View shows specified exposure settings.
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 *Also available AF target spot metering
Metering Range	EV -2 - 20 (ISO approx.100, with a f/2.8 lens)

Exposure Mode / Shooting Mode	P: program AE (program shift can be performed), A: aperture priority AE, S: Shutter priority AE, M: Manual, B: Bulb (Live Bulb, Live Time and Live Composite are available), Custom 1~4
ISO Sensitivity	AUTO ISO (default) : LOW (approx.64) - 6400 with customizable default and upper limit (200 - 6400) Manual ISO : LOW (approx.64, approx.100), 200 - 25600 (adjustable in 1/3 or 1 EV steps) ±5 EV, adjustable by 1/3, 1/2 or 1 EV steps
Exposure Compensation	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 (can be set to AEL/AFL button as well)
Anti-Flicker Shooting	Available
Flash Intensity Control Mode	TTL Auto, Auto*, Manual, Super FP*(FP-TTL AUTO, FP-MANUAL) * Available on the external flash
Flash Mode	Redeye, Fill-in, Flash Off, Red-eye Slow sync.(1st curtain), Slow sync.(1st curtain), Slow sync.(2nd curtain), Manual (1/1 (FULL) ~1/64) 1/250 sec.
Synchronization Speed	*When using Super FP: 1/125-1/8000 sec. *When using electronic shutter: 1/50 sec. up to ISO6400, 1/20 sec. for ISO 8000 and higher, and 1/20 sec. for ISO bracketing
Flash Intensity Control	Up to ±3 EV in 1/3, 1/2, 1 EV steps selectable
Compatible External Flash	FL-50R, FL-36R, FL-20, FL-14, FL-300R, FL-600R, FL-900R, STF-8, FL-700WR
Wireless Flash Control Method	Triggered and controlled by Olympus Wireless RC Flash system compatible flashes: FL-LM3 or separately available FL-600R and FL-900R , STF-8,FL-700WR
External Flash Intensity Type	TTL Auto, Auto, Manual, FP-TTL-AUTO, FP-MANUAL
Channel No.	4 channels
Group No.	4 groups (External flash 3 groups + commander flash)
Radio Wireless Control	Available
Memory / Image Recording (File Format)	
Compatible Memory	SD, SDHC*1, SDXC*1 *1 UHS-I,II compatible
Recording Format	DCF2.0, Exif2.31
File Format	RAW (12-bit lossless compression), JPEG, RAW+JPEG
Recording Image Size	[RAW] 5184 x 3888 pixels [JPEG] 5184 x 3888 pixels - 1024 x 768 pixels

Dual Card Slot Settings	Standard, Auto Switch, Dual Independent, Dual Same *When two cards are inserted, card to be saved on to or to be viewed can be designated.
Folder Creation and Selection	Available
Copy	Copy single file, copy multiple files, copy all *When copied, the new file will be given a different name from that of the original file.
White Balance / Color Mode	
White Balance Mode	Auto WB, 7 Preset WBs, 4 Capture WBs, Custom WB(Kelvin setting)
White Balance Compensation*	±7 steps along A-B / G-M axis * Except for Custom WB
Preset White Balance	7 preset WBs (3000K - 7500K) - Sunny(5300K), Shadow(7500K), Cloudy(6000K), Incandescent(3000K), Fluorescent(4000K), Underwater, WB Flash(5500K)
CWB (Kelvin Setting)	2000 - 14000K
Capture White Balance	4 custom settings can be registered
Color Mode	sRGB, Adobe RGB
Bracketing / HDR	
Exposure Bracketing	2, 3 or 5 frames in 0.3/0.7/1.0EV steps selectable, 7 frames in 0.3/0.7EV steps selectable
ISO Bracketing	3 frames in 0.3/0.7/1.0EV steps selectable
White Balance Bracketing	3 frames in 2, 4, 6 selectable steps for A-B/G-M axis.
Flash Bracketing	3 frames in 0.3/0.7/1.0EV step selectable
Art Filter Bracketing	i-Enhance, Vivid, Natural, Muted, Portrait, Monotone, Custom, Art Filters, Color Creator selectable
Focus Bracketing	3 to 999 shots, focus steps adjustable from 1 to 10 (compatible with Micro Four Thirds lenses) 8 shots are taken at different focus points and automatically composited together into a single image * Angle of view becomes slightly smaller (The cut area guide is displayed) * Compatible with :
Focus Stacking Mode	M.Zuiko Digital ED 60mm f/2.8 Macro M.Zuiko Digital ED 12-40mm f/2.8 PRO M.Zuiko Digital ED 40-150mm f/2.8 PRO M.Zuiko Digital ED 30mm f/3.5 Macro M.Zuiko Digital ED 7-14mm f/2.8 PRO M.Zuiko Digital ED 8mm f/1.8 Fisheye PRO M.Zuiko Digital ED 300mm f/4.0 IS PRO M.Zuiko Digital ED 12-100mm F4.0 IS PRO
HDR (Auto Composite)	HDR1, HDR2 (painting-like) ※ISO sensitivity is fixed at 200, and maximum shutter speed setting is 4 sec. ※Exposure compensation can be performed.

Bracketing for HDR post-process	3 or 5 frames in 2.0 or 3.0 EV steps, or 7 frames in 2.0 EV steps. *This sequential shooting H AE bracketing is specifically designed for shooting images that will be HDR-processed on a PC.
Creative Features	
Picture Mode	i-Enhance, Vivid, Natural, Muted, Portrait, Monotone, Custom, e Portrait, Underwater, Color Creator, Art Filters
Gradation	Auto, Normal, High Key, Low Key [except when using e-Portrait, Underwater, Art Filters, Color Creator]
Highlight and Shadow Control	±7 steps each for highlight, shadow, midtone
Picture Tone	Neutral, Sepia, Blue, Purple, Green for Monotone
Art Filter (Variation / Art Effect)	<ul style="list-style-type: none"> 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) Instant Film (- / a.b.c.d.e.f.i)
Art Effect	<ul style="list-style-type: none"> 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 Ring (for partial color)	18 color selectable
Live Bulb / Live Time	Update Interval Time - 0.5 sec – 60 sec

Live Composite	Update Interval Time / composite method – 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
Multiple Exposure (number of pictures / function)	2 frames / Auto gain, Exposing on Recorded picture(RAW) 3 styles (can be confirmed in Live View)
Fisheye Compensation	*Underwater correction compatible * Enabled when M.Zuiko Digital ED 8mm f/1.8 Fisheye PRO is used.
Live ND (Neutral Density)	Available *Shutter Priority and Manual mode only, flash can not be used, ISO up to 800, the maximum shutter speed is 1/30 (when ND2 is set) and the speed drops if the number of ND steps is raised Equivalent to 50 megapixels / 25 megapixels *Available in P/A/S/M mode, RAW+JPEG or JPEG.
High Res Shot	*JPEG: 8160 x 6120(50M) 5760 x 4320(25M) / RAW: 10368 x 7776 *RAW data can be developed in-camera. You need to install Olympus Workspace to develop on a PC. *Electronic Shutter 1/8000 - 60 sec. Equivalent to 50 megapixels / 25 megapixels *Available in P/A/S/M mode, RAW+JPEG or JPEG.
Handheld High Res Shot	*JPEG: 8160 x 6120(50M) 5760 x 4320(25M) / RAW: 8160 x 6120 *Flash can not be used *RAW data can be developed in-camera. You need to install Olympus Workspace to develop on a PC. *Electronic Shutter 1/8000 - 60 sec.
Keystone Compensation	Available (can be confirmed in Live View) *Horizontal and vertical compensation can be performed simultaneously.
Video / Audio Recording	
Video Recording Format	MOV(MPEG-4AVC/H.264)

4096 × 2160 (C4K) / 24p / IPB (approx. 237 Mbps)
3840 × 2160 (4K) / 30p, 25p, 24p / IPB (approx. 102 Mbps)
1920 × 1080 (FHD) / 30p, 25p, 24p / ALL-I (A-I), IPB (SF, F, N)
1920 × 1080 (FHD) / 60p, 50p / IPB (SF, F, N)
1280 × 720 (HD) / 60p, 50p, 30p, 25p, 24p / ALL-I (A-I), 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

Movie Mode / Frame Rate / Compression Method

FHD ALL-I (A-I : ALL-Intra / approx. 202 Mbps),
FHD IPB (SF: SuperFine / approx. 52 Mbps, F: Fine / approx.. 30 Mbps,
N: Normal / approx. 18 Mbps)
HD ALL-I (A-I : ALL-Intra / approx. 102 Mbps),
HD IPB(SF : SuperFine / approx.26Mbps, F:Fine / approx.14Mbps、 N : Normal / approx.10Mbps)
HD (1280 × 720) / 30p

*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,C4K,ALL-I shooting.

Maximum Video Recording Time

Approx. 29min

Movie Tele-converter

Approx. 3x (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

[AVI]

Time-lapse Movie

3840×2160 (4K) / 5fps

1920×1080 (FHD)/ 5fps, 10fps, 15fps

1280×720 (HD)/ 5fps、 10fps、 15fps、 30fps

Quick Movie / Slow Movie

With (Both or either of the two may not be available depending on the frame rates.

High speed movie

120fps (1920×1080/MOV)

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

Time Code

Rec run/free run, drop frame/non-drop frame

Live View Output via HDMI	<p>Monitor Mode (outputs video and info display to a connected monitor) *1 Record Mode (outputs video only, with no info display) *2 *1 While recording, footage is simultaneously displayed on the HDMI monitor and on the camera, but the info display is shown only on either one of the two. While playing movies, footage is simultaneously displayed on the HDMI monitor (normal size) and on the camera (normal size or enlarged). However, the image can not be enlarged on the camera when a movie is being recorded. *2 Movie quality is set to YCbCr 4:2:2 (8 bit), frame rate follows movie setting (24p, 30p and 60p settings are not recommended.), and sound will be recorded.</p>
Movie Picture Mode	<p>Flat,OM-Log400 *View assist compatible</p>
Audio Recording Format	<p>Wave Format (Stereo linear PCM/16-bit, Sampling frequency 48kHz)</p>
Microphone / Speaker	<p>Built-in stereo microphone / built-in mono speaker *External stereo microphone can be attached</p>
Microphone Function	<p>Wind noise reduction, recording volume, microphone volume limiter Audio dubbing possible for still pictures (up to 30 sec.) *May affect audio quality.</p>
IC Recorder Linkage	<p>Slate Tone / Synchronized Audio Rec-Movie Rec *LS-100 compatible</p>
Operability	
GPS Info Function	<p>Available (Via GPS smartphone) *Built-in GPS info given priority</p>
Wireless Shooting	<p>Live View, Rec View, Wireless Touch AF shutter, Self Timer (w/Countdown guidance, Sequential shooting, movie recording capability), Wireless Release, Movie Recording, Power Off *P / A / S / M / B and drive mode can be selected. Aperture, shutter speed, exposure, ISO sensitivity, white balance and sequential shooting can be adjusted.</p>
Image Share	<p>File Type: JPEG*, MOV Marking function for image share.</p>
Easy Connection	<p>Connect using a QR code Connect using Bluetooth (View, Transfer only. Enabled from the second time)</p>
Tethered Shooting	<p>Via USB cable (camera can be operated by both PC or camera controls) Via Wi-Fi (Transfer of recorded images to PC via access point, 5GHz and 2.4GHz available)</p>
GPS / Field Sensor System	<p>GPS (GLONASS,QZSS), compass, manometer, temperature sensor, Acceleration sensor</p>
Playback Mode	<p>Single-frame, information display, index display (4/9/25/100 frames), calendar, enlargement (2x - 14x), movie (with sound, FF/REW/Pause), picture rotation (auto), Light Box display</p>

Information Display	Histogram (independent luminance / RGB available), Highlight/Shadow point warning, AF frame, Photographic information, OFF
Custom	
My Menu	35 items in 5 tabs with 7 items each
Mode dial my set	4 types of settings can be configured to C1-C4 modes on mode dial.
Menu custom set	Available (Settings configured to C1-C4 can be called up via the menu even in P,A,S,M and B modes. *Some items including shooting mode may not be called up.
Multi Selector customization	With
Dial customization	Dial function and dial direction are customizable for both dials
Lever customization	Select assignment from 3 different modes, power switch, or off (no function assignment) Up to 39 functions can be assigned to buttons
Button Customization	*Up to 24 functions can be assigned for movie recording *Buttons on lenses can also be customized from the camera *Some buttons may have restrictions to what functions can be assigned
Copyright Settings/Lens info Settings	With / With (save up to 10 lenses)
Menu Languages (34 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 Type-C
Remote Connector	φ2.5Pin Jack (when using separately available RM-CB2).
HDMI Connector	Micro HDMI (type D)
Flash Attachment	Hot shoe, sync terminal
Wireless LAN	Built-in (IEEE 802.11b/g/n/ac)
MIC Input Jack	φ3.5 stereo mini jack (plug-in power on/off)
Headphone Jack	φ3.5 stereo mini jack
PC Interface	SuperSpeed (USB3.0)
TV Interface	Not Available
Battery	Two BLH-1 Li-ion batteries (included) * Can be operated when only one BLH-1 Li-ion battery is equipped.
Battery Status Display	Remaining power (4 steps, %, or by-minute display), shot count, degradation
AC Adapter	AC-5 AC adapter is separately available (connects to power battery holder HLD-9 to provide power to camera).

USB Bus Power	A USB PD bus power can be used ※ PD compliant Camera: Rev 3.0 Ver 1.0a
USB Charging	Built-in battery is charged with AC-5 / USB * When the camera power is off * Performance varies depending on different USB devices
Sleep Mode	Available (1/3/5 min. off)
Number of Recordable Pictures	Approx. 870 shots (using 2 BLH-1 and Toshiba SDXU-D032G with IS ON, with no flashes attached, based on CIPA test standards) Approx. 2,580 shots (using quick sleep mode, under Olympus testing conditions based on CIPA test standards)
Battery Life for Movie Recording	Approx. 170 minutes* (under standard JEITA testing) Approx. 350 minutes* (when zoom and other operational functions are not used) *When repeatedly recording at the maximum time of 29 minutes
Weights & Dimensions / Operating Environment / Box Contents	
Weight	Approx. 997g (with 2 BLH-1 batteries and 2 Memory cards, based on CIPA standards, without eyecup) Approx. 849g (body only)
Dimensions	W:144.4mm H:146.8mm D:75.4mm (based on CIPA standards: excludes protrusions)
Environmentally Sealed	Dust, Splash (IPX1), Freezeproof
Operating Temperature Range	-10°C ~ +40°C (when in operation) / -20°C ~ +60°C (when stored)
Operating Humidity Range	30 - 90% (when in operation) / 10 - 90% (when stored)
Box Contents	Body, USB cable, cable clip, cable protector, shoulder strap, instruction manual, warranty card, BLH-1 Li-ion battery (Two) , BCH-1 Li-ion battery charger (Two)