

OLYMPUS®

ABSOLUTE CONFIDENCE



OM-D
E-M1 series



YOSHIHISA MAITANI
Designer of the original OM
1933-2009

"I want to make this the camera that people will always pick out of the crowd, even when they know there's only one chance to get that shot."

The design concept of the very first OM model has been passed on from generation to generation and remains at the heart of development today.



2019
OM-D E-M1X



1972
OM-1



2016
OM-D E-M1 Mark II

THE GOAL: A COMPACT AND LIGHTWEIGHT SYSTEM THAT PROFESSIONALS COULD RELY ON

1972 was the year that ushered in the OM era. The core concepts that animated this innovative system were "reliability", "compact" and "lightweight".

Reliability means the assurance that you will always get the exact image you want when you want it. Compact means more than just a smaller footprint, it means enhanced mobility so you can capture superior images anywhere, anytime. And lightweight doesn't mean just shaving off a few grams, it means a real reduction in weight that you'll notice as soon as you pick up the camera.

It's all part of our determination to meet the very highest standards expected in the world of professional photography. This design concept is rooted in Olympus's long history and remains as unwavering today as it was in 1972.

The E-MIX and E-M1 Mark II are the offspring of this passion. Sophisticated. Advanced. Pro-oriented...Cameras that carry the pride of Olympus embedded in their DNA.

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RELIABILITY THAT’S IN A CLASS OF ITS OWN

Unstoppable. Uncompromising. Unbelievable.

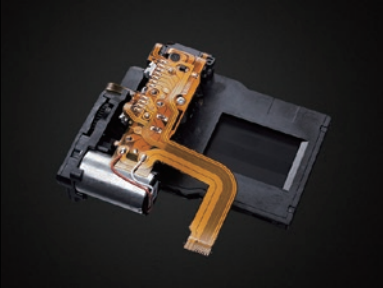
This stunning camera delivers breakthrough performance that powers through the most brutal conditions. Built for professionals who can’t afford to miss a single shot, this dustproof, splashproof and freezeproof camera is in a class of its own.



Dustproof, Splashproof and Freezeproof

Advanced dustproof and splashproof capabilities are boosted with the application of durable, highly hermetic seals to all coverings, such as the SD card slot cover. Reliable dustproof and splashproof performance is maintained even when cables are connected to the remote^{*1}, microphone and headphones terminals. Rigorous testing in the development and design phase has ensured that both the E-M1X and the E-M1 Mark II can be operated at temperatures as low as -10°C, enabling you to keep on shooting even in severe cold.

^{*1}. The optional RM-CB2 Remote Cable does not offer dustproof, splashproof or freezeproof capability.



High-durability Shutter Unit

Operational tests have proven that the shutter unit used in the E-M1 Mark II can be safely used at least 200,000 times^{*2}, while that incorporated in the E-M1X is good for an even more impressive 400,000 times^{*2}. The floating shutter mechanism minimizes transmission of shutter shock to the body, helping to stabilize the image when the shutter is released.

^{*2}. According to our in-house test conditions.

E-M1X
400,000
times

E-M1
Mark II
200,000
times



Dust Reduction System

The latest iteration in a groundbreaking Olympus tradition, the SSWF (Super-Sonic Wave Filter) dust reduction system kicks into gear as soon as the camera is turned on, vibrating at a super-high speed of 30,000 times and more per second, literally blowing any dust or dirt right out of the camera. Moreover, the E-M1X’s more refined construction and new coating make it more difficult for dirt and dust to adhere to camera parts, while making it easier to remove any that does.



Large-capacity Rechargeable Battery (BLH-1) / Information Display includes Charge Condition, Shot Count, Battery Serial No.

The double-battery system accommodates two BLH-1 1720mAh lithium-ion rechargeable batteries in a convenient cartridge. The batteries can be replaced easily without removing the camera from a monopod or tripod. The E-M1X can take about 870 shots^{*3} (CIPA test standard) before it needs to be recharged, while the E-M1 Mark II can take about 440 shots (CIPA test standard). With both models, remaining battery power in “%”, as well as charging status, shot count and battery serial number, is displayed on the monitor.

^{*3}. When two BLH-1 batteries are used.

E-M1X
870
shots

E-M1
Mark II
440
shots



COMBINING THE HIGHEST IMAGE QUALITY WITH AN EXCEPTIONALLY COMPACT AND LIGHTWEIGHT DESIGN, THIS SYSTEM LETS YOU ENJOY SUPERIOR PHOTOGRAPHY ANYWHERE

Compact and lightweight doesn't just make this system easier to transport, they support maximum mobility during shooting and improve ease of handling.



Competitor's system camera + 600mm telephoto lens



When it comes to top-end camera systems, true mobility is defined not just by the size and weight of the camera body itself, but by the entire system—including the lens. The only way to achieve the full degree of mobility for which the Micro Four Thirds System was originally designed is to combine the camera body with a compact, lightweight M.Zuiko lens.

You'll be able to enjoy handheld shooting even when using high-power lenses like the M.Zuiko Digital ED 300mm F4.0 IS PRO large-aperture super-telephoto lens, which is the equivalent of a 600mm F4.0 lens for a 35mm camera.



M. ZUIKO PRO



OM-D E-M1X | M.Zuiko Digital ED 300mm F4.0 IS PRO | 1/250sec | F5.6 | ISO250

CAPTURE EVEN THE SLIGHTEST MOTION

High-Speed, High-Accuracy AF Offers Amazing Tracking Performance.

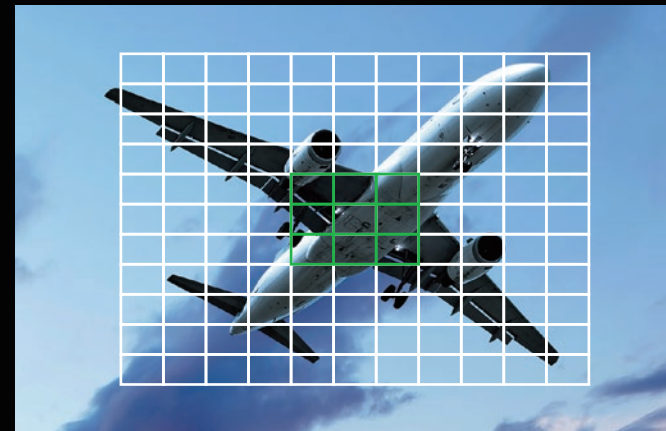


121-Point All-cross-type On-chip Phase Detection AF

The 11-point x 11-point all-cross type on-chip phase detection sensor covers 75% vertically and 80% horizontally of the field of view. Cross-type focusing is applied at all AF points to ensure super high-precision auto focusing. The moving subject tracking algorithm responds quickly to erratic subject behavior and sudden subject acceleration/deceleration.

TruePic™VIII High-speed Image Processing Engine

TruePic™VIII is the latest image processing engine from Olympus and features dedicated AF computation circuitry that allows it to operate at speeds about 3.5 times faster than the highly regarded TruePic™VII. Parallel processing of the on-chip phase detection AF sensing and image processing enables high-speed AF and high-speed sequential shooting.



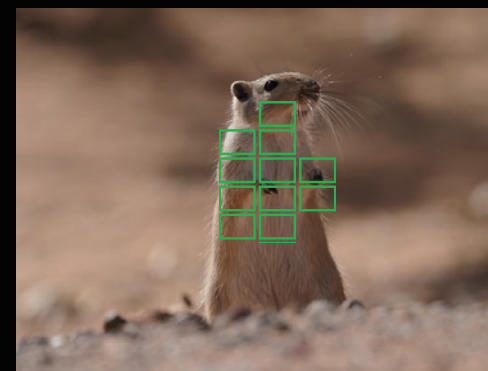
AF Target Mode / Custom AF Target Mode

Several AF target modes are available including 5-point Group Target for moving subjects and Small Target for fine focusing. The E-M1X also features a new 25-point Group Target mode, as well as a Custom AF Target mode that allows you to specify the AF area according to the motion and position of the subject. Flexible AF setting lets you set up the auto focusing system to handle even the most complex demands by setting a desired pattern from 11 vertical and 11 horizontal points (combination of odd numbers).



C-AF Tracking Sensitivity Setting

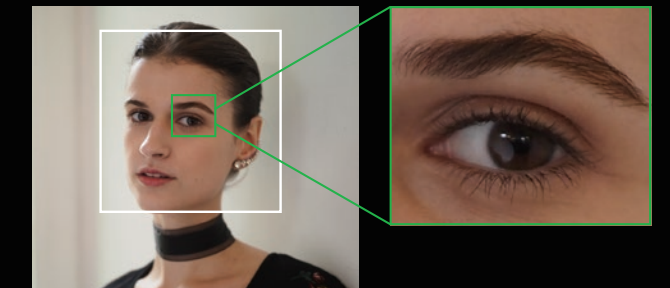
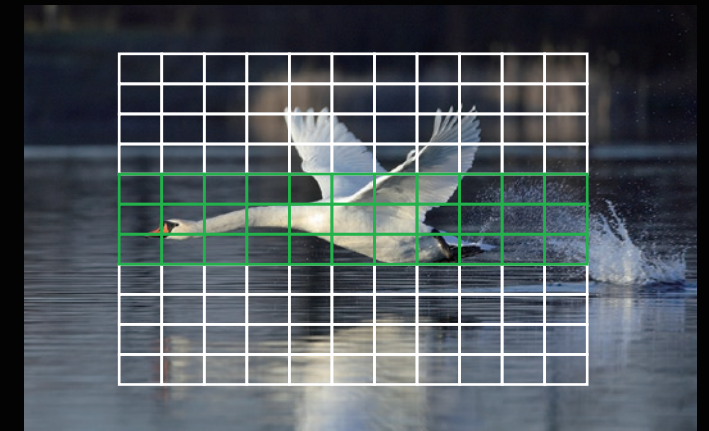
C-AF tracking sensitivity can be set in 5 steps. Optimum tracking performance can be set according to the scene. For example, you can set it to "+2" to photograph a subject that's moving back and forth at varying speeds or "-2" to attenuate the effects of objects passing in front of the subject.



Moving-Subject-Tracking Cluster Display^{*1}

In the All Target mode, the focused points are displayed as a cluster. The cluster display moves along with the subject, confirming that the subject is continuously in focus.

^{*1}. When C-AF and All Target mode are set. Set the AF Target display to "ON2".



Face Priority AF / Eye Priority AF

Face/Eye Priority AF allows you to choose a more precise detection method by prioritizing the left, right, or closest eye. This is especially useful in portrait photography when using wide-aperture lenses.



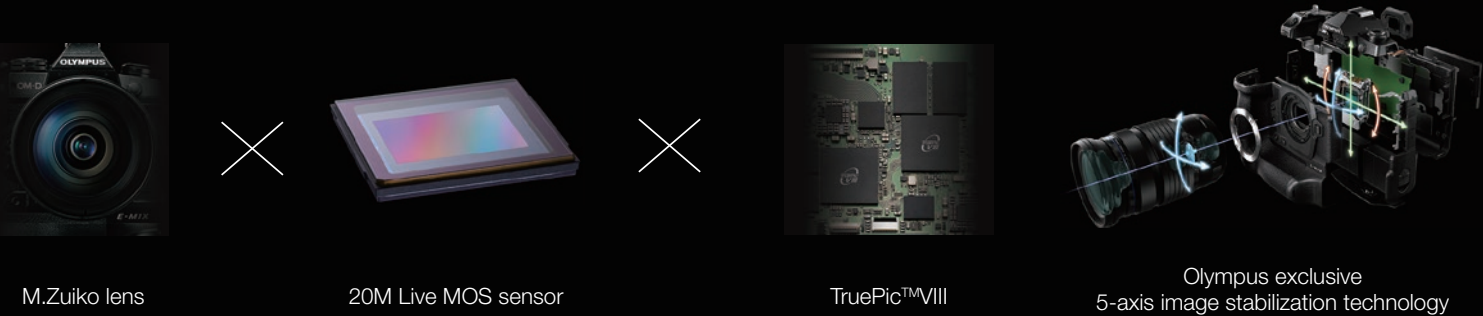
AF Limiter

Up to three AF operating areas can be set with the AF limiter. The ability to set the AF operating area to match different subjects, regardless of which lens you are using^{*2}, contributes to the high speed and reliability of AF.

^{*2}. Compatible with Zuiko Digital and M.Zuiko Digital standard AF lenses. Lens settings take priority on M.Zuiko Digital lenses with a focus limiter. Distance setting values are estimate.

POWERFUL COMBINATION OF M.ZUIKO LENS WITH IMAGE SENSOR, IMAGE PROCESSOR AND THE MOST ADVANCED IMAGE STABILIZATION TECHNOLOGY PRODUCES THE HIGHEST IMAGE QUALITY

From the brilliant optical performance of the Zuiko Lens System and the advanced Image Stabilization mechanism to the 20M Live MOS sensor and TruePic™VIII Processor, every component of the imaging system works together to deliver the kind of imaging performance you’d expect from a top-end system camera, producing stunningly beautiful images that will take your breath away. All this in an extraordinary compact camera small enough to carry in your hand.



Zuiko Lens System

Digital-dedicated designs make it possible for M.Zuiko lenses to offer ultra-high image quality and compact size. Incorporating the very latest optical technologies such as the DSA (Dual Super Aspherical) lens—which Olympus was the first company to successfully mass produce—and the Z Coating Nano, which forms a coating layer with low refractivity close to the air, these lenses are able to capture crisp, detailed images with the utmost clarity.

5-axis Image Stabilization with 7.5 shutter speed steps of compensation performance

The in-body image stabilization compensates for camera shake in all directions including “horizontal/vertical shift”, “optical axis rolling” and “horizontal/vertical angular shift”. The E-M1 Mark II is capable of 5.5 shutter speed steps^{*1} of compensation performance, while the E-M1X offers even more precision, with up to 7 steps^{*2}. Combining an M.Zuiko PRO lens with the built-in IS^{*3}, kicks up the stabilization capability another notch. For example, when the M.Zuiko Digital ED 12-100mm F4.0 IS PRO is used with the E-M1 Mark II, potential stabilization capability increases to 6.5 shutter speed steps^{*4}, while on the E-M1X, it goes up to 7.5 steps^{*5}.

*1. Mounted lens: M.Zuiko Digital ED 12-40mm F2.8 PRO. Focal length f = 40mm (equivalent to 80mm of 35mm film camera), image stabilization OFF during half press, CIPA standard compliant, under 2-axis vibrations (yaw/pitch). *2. Mounted lens: M.Zuiko Digital ED 12-40mm F2.8 PRO. Focal length f = 40mm (equivalent to 80mm of 35mm film camera), image stabilization OFF during half press, CIPA standard compliant, under 2-axis vibrations (yaw/pitch). *3. M.Zuiko Digital ED 12-100mm F4.0 IS PRO, M.Zuiko Digital ED 300mm F4.0 IS PRO (as of January 2019). *4. Mounted lens: M.Zuiko Digital ED 12-40mm F4.0 IS PRO. Focal length f = 100mm (equivalent to 200mm of 35mm film camera), CIPA standard compliant, under 2-axis vibrations (yaw/pitch). *5. Mounted lens: M.Zuiko Digital ED 12-100mm F4.0 IS PRO. Focal length f = 100mm (equivalent to 200mm of 35mm film camera), Frame rate: High speed, CIPA standard compliant, under 2-axis vibrations (yaw/pitch).



Tripod High Res Shot^{*6}

This function shoots a total of 8 frames are shot, shifting the sensor by 0.5 pixels for each shot and then automatically merging the results into a single image. The result is an ultrahigh resolution image equivalent to 80M (RAW)—even higher than the image resolution offered by full-frame interchangeable lens system cameras. To ensure crystal-clear results, the TruePic™VIII Image Processor works to minimize any image blurring that might be generated by the movement of the subject.

*6. The JPEG image is equivalent to 50M. A tripod is required for shooting. Under an AC illuminated environment, high resolution cannot be achieved due to flickering. When the subject moves during recording, the resolution of moving parts may degrade. The aperture can be set from open to F8.0 and the ISO sensitivity can be set up to 1600. The flash sync speed should be set to no less than 1/50 sec.



Live Composite

Live Composite records only those areas that have just been illuminated, making it possible to obtain a beautiful image of a scene that would normally not be possible with conventional bulb photography, such as combined shooting of star trails and city lights. With the Live Bulb function, you can keep the shutter open while the release button is pressed, while the Live Time function opens the shutter on the first push and closes it on the second press of the shutter button. You can check the exposure in real time on the monitor screen.



Focus Stacking Mode^{*7}

Focus Stacking captures several images with slightly different focus and merges them into a single photo, making it possible to shoot a picture with an extended depth of field while minimizing image degradation. With the E-M1 Mark II, Focus Stacking captures 8 images, while with the E-M1X, you can select the number of the image from 3 to 15. To help you identify which parts of the image will be merged when you take the shot, the E-M1X shows guide lines during shooting. With eight compatible lenses, including macro, fisheye and 300mm super-telephoto lenses, you’ll be able to take advantage of this powerful imaging capability across a broad range of shooting scenarios.

*7. With the E-M1X, 3 to 15 recorded shots are saved (either RAW or JPEG), together with the single composite image (JPEG). With the E-M1 Mark II, 8 recorded shots are saved (either RAW or JPEG), together with the single composite image (JPEG).

Lenses compatible with Focus Stacking Mode	
M.Zuiko Digital ED 7-14mm F2.8 PRO	M.Zuiko Digital ED 40-150mm F2.8 PRO
M.Zuiko Digital ED 8mm F1.8 Fisheye PRO	M.Zuiko Digital ED 300mm F4.0 IS PRO
M.Zuiko Digital ED 12-40mm F2.8 PRO	M.Zuiko Digital ED 30mm F3.5 Macro
M.Zuiko Digital ED 12-100mm F4.0 IS PRO	M.Zuiko Digital ED 60mm F2.8 Macro

Focus Bracketing Mode

The Focus Bracketing shoots up to 999 shots with different focused positions with one press of the shutter release button. The images can then be merged using commercially available application software to obtain a picture with an even deeper field of view than what you get with the Focus Stacking mode.

Keystone Compensation

Keystone Compensation enables trapezoidal compensation/perspective enhanced photography similar to that available with a tilt-shift lens. Simultaneous horizontal and vertical shifting lets you deal with various subjects and a wide range of shooting situations. The compensation effect can be confirmed in Live View prior to releasing the shutter, enabling fast, accurate imaging.



In-Body Fisheye Compensation^{*8}

When the M.Zuiko Digital ED 8mm F1.8 Fisheye PRO lens is used, the fisheye effect can be attenuated to obtain a picture like that captured using a wide-angle lens. The compensation effect can be confirmed on the monitor during shooting.

*8. The angle of view can be selected from 3 options (equivalent to 11mm, 14mm and 18mm of 35mm film camera).

Silent Mode^{*9}

When the electronic shutter is used, you can mute the shutter release sound and turn off the electronic focus indication tone to enable silent shooting. This is convenient when you’re taking pictures in an environment where sounds are inappropriate, such as in a concert hall, museum, meeting, or lecture.

*9. The available shutter speed is 60 to 1/32000 sec. The captured image may be distorted when a quickly moving subject is shot. The captured image may be marred by a stripe pattern when some shutter speeds are used under certain kinds of fluorescent lamp or LED illumination. In the silent shooting mode, the shutter sound for dark frame acquisition is produced when the long-second noise reduction is set to Auto depending on the shooting condition. The AF Illuminator, AF focus sound and flash emission can be permitted or inhibited.



SUPERIOR SEQUENTIAL SHOOTING PERFORMANCE

High-Speed Viewfinder Provides a Clearer View



Up to 18 fps AF / AE Tracking Sequential Shooting *1

Applying AF/AE tracking, sequential shooting can capture successive frames of a moving subject at up to 18 fps while maintaining a high pixel count of 20M. The blackout time is reduced considerably thanks to the high-speed processing. Even a subject with quick motions can easily be framed and captured in fine, high-definition images.

Up to 60 fps AF / AE Fixed Sequential Shooting *2

In the silent sequential shooting H mode, incredibly high-speed sequential shooting at up to 60 fps is possible while still maintaining high pixel count of 20M. This incredible speed makes it possible to capture high-definition images of the “moment” that are literally invisible to the naked eye. Only available with the E-M1 and E-M1 Mark II, this amazing feature will truly take you to places you’ve never seen before.

Pro Capture Mode *3

In this mode, pressing the shutter release button halfway initiates shooting of full (20.37M effective pixels) RAW images. Recording continues up to a maximum of 35 frames or until the button is fully pressed. This ensures you’ll be able to capture those fleeting moments so often lost due to the delay in your own reaction time or time lags in camera operation.



High-Magnification/High-Speed Viewfinder

With a maximum frame rate of 120 fps and minimum display time lag of 0.005 sec., the high-speed viewfinder has the power you need to accurately render moving subjects and ensure a stable, true-to-life view at all times.



E-M1X	E-M1 Mark II
Slot 1,2	Slot 1
UHS-1/UHS-I	UHS-1/UHS-I
	Slot 2
	UHS-I

Dual Card Slots

Due to popular demand from professional photographers, dual card slots have been included on this model. A side-by-side layout has been employed for easy removal of the desired card. Select one of four recording settings.

- Standard: Records to specified card
- Auto Switching: Continues recording on the other card when the specified card is full
- Dual Independent: Records to both cards at specified image quality settings
- Dual Same: Records to both cards in the same image quality mode

ADVANCED WORKFLOW

Evolved to Meet the Stringent Requirements of Pro Photographers



Olympus Capture

This application software lets you connect your camera to a computer for remote operation. You can make setting changes, operate the shutter, and transfer images. With the E-M1X, you can also transfer images wirelessly.



Olympus Workspace

This new application allows for advanced browsing and image editing. It features the ability to rate images, magnify 100% with a single click, develop RAW images quickly, and apply new filters such as Clarity and Dehaze.



OI.Share Image Transfer *4

Allows a Wi-Fi connected smartphone to perform camera controls including remote release, setting changes and image transfer. You can also access camera manuals and track and check operations. With the E-M1X, RAW image transfer is available.

4K OM-D MOVIE FOR HANDHELD SHOOTING OF CINEMA QUALITY VIDEOS

Powerful image stabilization supports creative video production. Also featuring excellent environmental resistance, OM-D Movie will expand your range of creative expression and help you produce pro-class video movies.

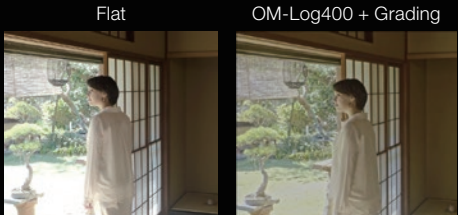
Handheld 4K, C4K Video Recording

Powerful 5-axis image stabilization paired with electronic stabilization exclusively for videos provides unrivaled stabilization for moving pictures. Chose from high definition modes including 4K UHD (3840 2160 px) and Digital Cinema 4K (4096 x 2160 pc) as well as 24P frame rate and high bit rate of up to 237 Mbps *5. The result is spectacular hand held video without the need for stabilization equipment. With the E-M1x, you can also adjust the stabilization intensity up to 3 steps to match your movement.



Flat / OM-Log

Developed exclusively for movie recording, the Flat picture mode lets you enhance images by adding subtle gradations via color grading during editing. The E-M1X also compatible with the OM-Log 400 mode, giving you even more post-production flexibility. Both the Flat and OM-Log 400 modes convert the recorded file into the BT.709 format using Blackmagic Design DaVinci Resolve and supply LUT (Look-Up Table) files for use in color grading work.



HDMI Monitor Connection *6

Two HDMI output modes are provided; Monitor mode for viewing the image on an external monitor and Record mode for recording the movie on an external recorder. 4:2:2 output *7 is supported for expanded color correction range. Start/stop of movie recording on the external recorder can be controlled in sync with start/stop of movie recording on the camera.

*1. When the M.Zuiko Digital ED 12-40mm F2.8 PRO is used, the sequential shooting speed may sometimes decrease depending on various shooting conditions including the lens, brightness, aperture, shutter speed, exposure correction and ISO sensitivity. *2. Focus and exposure are fixed at the values of the first shot when using sequential shooting. *3. Pro Capture H is available with any Micro Four Thirds/Four Thirds lens, as well as with lenses that do not have electrical contacts. Pro Capture L is available with M.Zuiko Digital lenses and lenses without electrical contacts. Sequential shooting speed decreases in shooting at ISO8000 or higher. Blackout is not produced in the Pro Capture mode. However, in the case of Pro Capture H sequential shooting, blackout is produced but the Rec View is provided during shooting. In the Pro Capture mode, the shutter speed is limited on the high-speed side and the flash is inhibited. The aperture is limited to between open and F8.0 during Pro Capture L sequential shooting.

*4. Enable the camera background communication function. On iOS devices, OI.Share must be launched ahead of time. When using Android 6.0 or later, images are not automatically transferred when the smartphone is not in use (when the smartphone screen is off). The smartphone screen display must be on. *5. The bit rate of the actual recording varies depending on the frame rate combination and the scene conditions. *6. Some functions may not be available depending on the external monitor used. *7. When recording is performed simultaneously on the camera, the 4:2:0 output is up-sampled to 4:2:2.

ABSOLUTE CONFIDENCE

An extension of your creative vision, the E-M1X responds instantly to your wishes, almost as if it can sense your thoughts, capturing images just the way you see them in your mind's eye and making sure you never miss those once-in-a-lifetime photo opportunities.



Integrated Vertical Grip Design

The vertical grip-integrated design allows you to control the camera in the same way whether you're holding it horizontally or vertical. It's snug, comfortable secure, and ideal for photographers who engage in extended shooting sessions.

Button/Lever Layout

Each button controls a single function and the layout has been optimized to streamline operation and simplify handling. They also each have a slightly different height and feel to make it easy to distinguish one from another.

Lock Lever

The lock lever prevents unintended operation of buttons designed for use in the vertical position when the camera is held in the horizontal position. C-Lock allows for customization of the locked features.



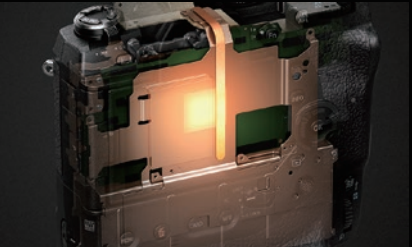
High-Magnification, High-Speed Viewfinder

The large electronic viewfinder features newly developed optics with 4 lens elements for improved performance. Top-class magnification of approximately 0.83x (35mm equivalent) combined with aspherical and high-refractivity lenses supports distortion-free image display. The max frame rate is 120fps and the display lag time is as short as 0.005 seconds.



Joysticks

Two selectors are provided—one for horizontal and the other for vertical holding—so you can quickly shift the AF area without taking your eyes off the viewfinder. Regardless of how you're holding the camera, the setting action feels the same so operation is smooth and consistent. With the multi-selectors, you can move the AF area even during sequential shooting or movie recording.



Heat Dispersion Structure

Heat pipes are employed to improve heat dispersion efficiency. This helps reduce the camera body temperature, keeping it from overheating during movie recording under the hot sun or during burst shooting.



Dual Large-capacity Batteries

Two 1720mAh BLH-1 lithium ion rechargeable batteries can be inserted into the cartridge so you can focus on shooting without worrying about running out of power. The batteries are designed so that they can be easily replaced although using the monopod or tripod without removing the camera from it.



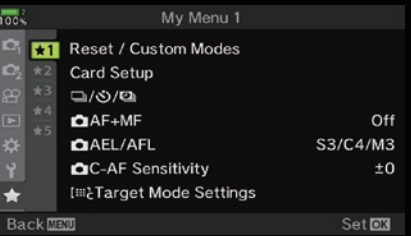
USB Power Supply & Recharging ^{*2}

E-M1X offers compatibility with the USB PD standard, this camera can be powered from a USB PD-compliant 100 W (max.) power supply. The batteries can be recharged in as few as 2 hours.



C-AF + MF ^{*3}

Turning the focus ring on the lens even while half pressing the shutter button enables manual focusing even during C-AF.



My Menu

My Menu allows you to register 35 menu items with 7 items in 5 groups. To register, select the required item within the full menu and push the movie button.



AF Low Light Limit of -6 EV ^{*4}

A low-light limit of -6 EV ^{*4} can be achieved when the AE/AF ISO sensitivity is set to 100 and an F1.2 lens is mounted.

Anti-Flicker Shooting ^{*5}

To compensate for uneven exposure effects that can be caused by flicker produced by artificial illumination during indoor shooting, the camera automatically detects the blinking cycle frequency and adjusts the shutter release timing to minimize the flicker effect and stabilize brightness levels.

GPS & Field Sensor System

Latitude and longitude information acquired in the field is recorded on the Exif tag. When the Olympus Image Track (OI.Track) smartphone app is connected, this data can be used to display location displayed simultaneously on a map.

^{*2}. Only USB PD battery which has 9V3A or 15V2A or 15V3A output can supply power to the camera. USB charging is available only when the camera is OFF. ^{*3}. C-AF + MF is available only when an M.Zuiko PRO lens is mounted. Firmware update is required to following lenses. ED 8mm F1.8 Fisheye PRO: Firmware ver1.2 or later ,ED 25mm F1.2 PRO: Firmware ver1.1 or later, ED 45mm F1.2 PRO: Firmware ver1.1 or later. ^{*4}. When using S-AF, ISO100 with an F1.2 lens. ^{*5}. Detects flicker only when the flicker frequency of the light source is 100 Hz or 120 Hz. Sequential shooting speed may decrease.

DUAL PROCESSING ENGINES TURBOCHARGE CREATIVITY

The E-M1X incorporates two TruePic™VIII image processing engines to dramatically boost performance and response. Higher quality and faster processing not only means you can shoot with confidence, it also allows you to explore a much wider range of creative possibilities.



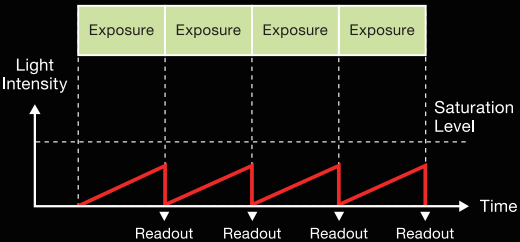
Handheld High Res Shot *1

Handheld high-resolution shooting is invaluable in situations where you can't use a tripod. This function shoots a total of 16 frames and builds a high-resolution image equivalent to that obtained with a 50M sensor.

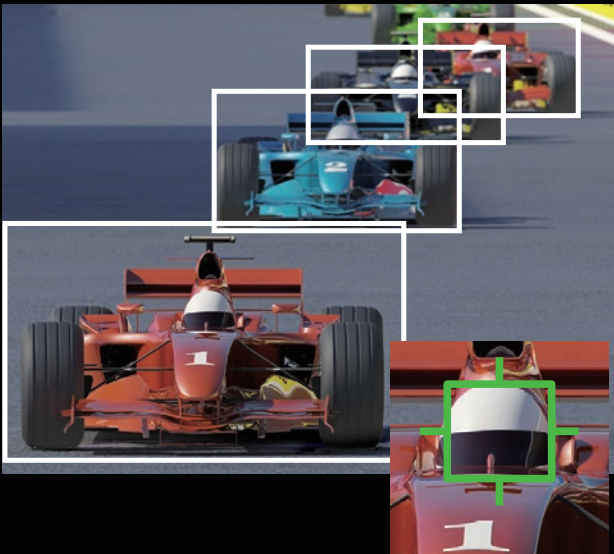


Live ND *2

Live ND makes it possible to apply a slow shutter effect similar to that obtained when an ND filter is used. Multiple exposed images are merged to create a slow shutter effect like a cascading waterfall. The effect level can be selected from 5 levels from ND2 to ND32 and you don't have to worry about experiencing overexposure due to slow shutter release. Unlike the normal ND filter, Live ND lets you preview the slow shutter effect in the Live View monitor.



INTELLIGENT SUBJECT DETECTION AF BASED ON DEEP LEARNING



Intelligent Subject Detection AF *3

Newly developed subject tracking algorithm that is developed using the very latest artificial intelligence (AI) technologies- deep learning -this new subject tracking algorithm allows the camera to detect a specific subject and focus on the optimum point. For instance, tracking AF can be applied by pinpoint targeting of a driver's helmet. Ideal for shooting motor sports, aircraft or trains, this next-generation moving object tracking technology allows you to focus on image composition, instead of trying to stay in focus.

UHS-II Compatible Dual Card Slots

A dual card-slot structure has been adopted to meet the demands of pro photographers. Both slots accept UHS-II standard SD memory cards, which feature an excellent data transfer rate.



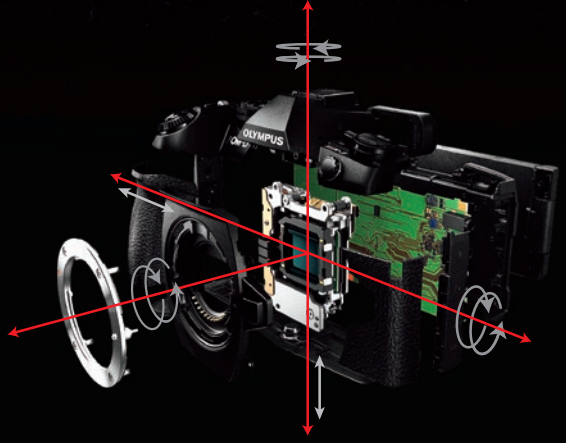
*1. Under an AC illuminated environment, high resolution cannot be achieved due to flickering. When the subject moves during recording, the resolution of the moving parts may degrade. The aperture can be set from open to F8.0 and the ISO sensitivity can be set up to 6400. The flash cannot be used and the RAW image is 50M. *2. Flash is inhibited and the ISO sensitivity is up to 800. The maximum shutter speed is 1/30 (with the ND2 setting) and decreased as the NF setting step increases. The step setting can be selected from 5 options: ND2 (1 step), ND4 (2 steps), ND8 (3 steps), ND16 (4 steps) and ND32 (5 steps). Live View monitoring is available only when LV simulation is set to ON. *3. Valid only during C-AF + TR. Detection may not be possible or may not function correctly with some subjects.



COMPACT, LIGHTWEIGHT DESIGN

Optimized for Maximum Mobility in Any Shooting Environment

OM-D
E-M1 Mark II



5-axis Sync Image Stabilization with up to 6.5-step Compensation

Olympus exclusive 5-axis image stabilization can handle any kind of camera shake thanks to its ability to compensate for horizontal/vertical shifts and optical axis rolling, as well as horizontal/vertical angular shifts. Incorporating a powerful new microcomputer control system, advanced vibration detection sensors, optimized compensation unit mechanism and compensation algorithm, this system is capable of stabilizing images using as many as 5.5 steps *1 with the camera alone. Furthermore, the 5-axis Sync Image Stabilization using M.Zuiko PRO lens *2 which is equipped with built-in image stabilization mechanism has further improved the image stabilization effect. That effect can be boosted to 6.5 steps *3 when the M.Zuiko Digital 12-100mm F4.0 IS PRO lens is mounted.

*1. When using M.Zuiko Digital ED 12-100mm F4.0 IS PRO at 100mm (35mm equivalent: 200mm), with halfway release image stabilization set to OFF, when yaw and pitch are applied to camera. CIPA standard compliant. *2. When using M.Zuiko Digital ED 12-40mm F2.8 PRO at 40mm (35mm equivalent: 80mm), when yaw and pitch are applied to camera. CIPA standard compliant. *3. M.Zuiko Digital ED 12-100mm F4.0 IS PRO, M.Zuiko Digital ED 300mm F4.0 IS PRO

Updatable Firmware

You can easily update the E-M1 Mark II's firmware to take advantage of new functions and improved operability. Ver. 2.0 (released in Feb. 2018) is available for 17 updates, including the addition of small target positions to the AF Target mode and an increase in the maximum number of pre-sequential shooting frames in Pro Capture shooting to 35.

ACCESSORIES FOR OM-D E-M1 MARK II



HLD-9 Power Battery Holder

A dustproof, splashproof and -10°C freezeproof power battery holder for exclusive use with the E-M1 Mark II. The system accommodates two BLH-1 Lithium Ion Rechargeable Batteries, one in the camera body and the other in the HLD-9, making it possible to shoot about 880 photos (CIPA standard). Using the optional GS-5 Grip Strap gives you an even better grip and greater sense of security, even when you use a telephoto lens. You can use the battery holder simultaneously with a shoulder strap.



EP-13 Eye Cup

Ideal for super-telephoto shooting for sports and wild birds.



EP-12 Eye Cup

Screens out extraneous light and fits comfortably over the eye—even when wearing glasses.



GS-5 Grip Strap

Gives you a better grip when the Power Battery Holder is installed.

UNDERWATER PHOTOGRAPHY SYSTEM

The E-M1 Mark II can be integrated with an underwater system water resistant up to a depth of 60 meters, while still remaining compact and highly mobile. It is packed with the functions optimum and effective for underwater shooting, including the scene modes (Underwater Wide and Underwater Macro modes) and the picture modes (Underwater Picture mode). You can enjoy photography by maximum use of the real power of the E-M1 Mark II.



PT-EP14 Underwater Case for E-M1 Mark II

The impressive selection of accessories for underwater photography includes the PT-EP14 Underwater Case with a water resistant depth of 60 meters and the PRO-EP03 Macro Lens Port, as well as the UFL-3 Underwater Flash—a compact underwater-dedicated flash compatible with the Olympus-exclusive wireless RC system.

- Underwater pressure resistance: 60 m

THE RIGHT LENS FOR ANY SCENE
From 14mm^{*1} Super Wide Angle to 600mm^{*1} Super Telephoto

M.Zuiko Digital ED
8mm
F1.8 Fisheye PRO
Equivalent to 16mm (35mm equiv.)






The world's first ^{*4} fisheye lens to provide extra-high brightness of F1.8. Outstanding optical performance with reliable dustproof, splashproof and freezeproof design opens a new world of nature photography from brilliant underwater scenes to dazzling night skies.

- Closest focusing distance: 0.12 m • Size: maximum diameter x length: φ62 x 80mm • Weight: 315 g

M.Zuiko Digital ED
7-14mm
F2.8 PRO
Equivalent to 14-28mm (35mm equiv.)






A superwide-angle zoom lens featuring an F2.8 open aperture throughout the zoom range plus excellent mobility and superior optical performance. The dustproof, splashproof and freezeproof design is ready for action in the toughest conditions.

- Closest focusing distance: 0.2 m • Size: maximum diameter x length:φ78.9 x 105.8mm • Weight: 534 g

M.Zuiko Digital ED
12-40mm
F2.8 PRO
Equivalent to 24-80mm (35mm equiv.)



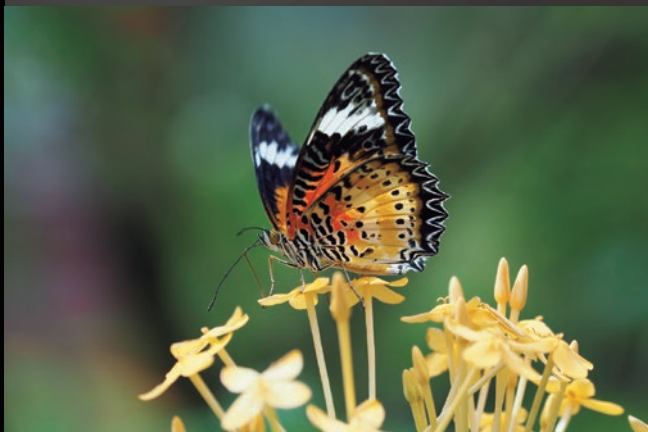


Built into a robust dustproof, splashproof and freezeproof housing, this large-aperture zoom lens features an F2.8 open aperture throughout the zoom range supported by excellent optical performance. Powerful functions include macro capability to take you as close a 20 cm to the imaging surface.

- Closest focusing distance: 0.2 m • Size: maximum diameter x length: φ68.9 x 84mm • Weight: 382 g • Lens Hood (included): LH-66

M.Zuiko Digital ED
12-100mm
F4.0 IS PRO
Equivalent to 24-200mm (35mm equiv.)





A zoom lens with an F4.0 open aperture from wide-angle to telephoto. The 5-axis Sync Image Stabilization^{*2} offers 7.5-step^{*3} compensation, and macro photography has been made possible from as close as 15 cm (at the wide-angle end). Features our acclaimed dustproof, splashproof, freezeproof design.

- Closest focusing distance: 0.15 m • Size: maximum diameter x length: φ77.5 x 116.5mm • Weight: 561 g • Lens Hood (included): LH-76B

M.Zuiko Digital ED
40-150mm
F2.8 PRO
Equivalent to 80-300mm (35mm equiv.)






Covering focal lengths across a range equivalent to from 80 to 300 mm on a 35mm film camera, while maintaining a bright F2.8 aperture, this high-powered zoom lens offers beautiful images with amazing resolution and a soft circular bokeh effect. Features our acclaimed dustproof, splashproof, freezeproof design.

- Closest focusing distance: 0.7 m • Size: maximum diameter x length: φ77.5 x 116.5 mm • Weight: 760 g (excluding tripod collar) / 880 g (including tripod collar)
- Lens Hood (provided): LH-76

M.Zuiko Digital
1.4x Teleconverter
MC-14





A high-performance teleconverter extending the focal length of the master lens^{*5} by 40%. Features our acclaimed dustproof, splashproof, freezeproof design.

- Size: maximum diameter x length: φ59.8 x 14.7 mm • Weight: 105 g • Lens Hood (included): LSC-0603

M.Zuiko Digital ED
300mm
F4.0 IS PRO
Equivalent to 600mm (35mm equiv.)





Handheld shooting with a 600mm^{*1} super-telephoto lens has been made possible. In addition our durable dustproof, splashproof, freezeproof design, an image stabilization mechanism is built into the lens. The 5-axis Sync Image Stabilization^{*2} offers compensation of 6 steps^{*4}.

- Closest focusing distance: 1.47 m • Size: maximum diameter x length: φ92.5mm x 280mm (with lens hood) /φ92.5mm x 227mm (when the lens hood retracted) • Weight: 1,270 g (without tripod baseplate) / 1,475 g (with tripod baseplate) • Lens Hood: Built into the body

UNDER DEVELOPMENT

M.Zuiko Digital ED
150–400mm F4.5 TC 1.25x IS PRO

M.Zuiko Digital
2x Teleconverter MC-20

Protection Filters

PRF-ZD62 PRO	For ED 12-40mm F2.8 PRO
PRF-ZD72 PRO	For ED 12-100mm F4.0 IS PRO, ED 40-150mm F2.8 PRO
PRF-ZD77 PRO	For ED 300mm F4.0 IS PRO

M. ZUIKO PRO

^{*1}: 35mm film camera equivalent. ^{*2}: Bodies compatible with 5-axis Sync Image Stabilization: OM-D E-M1 Mark II, E-M1 FW ver.4.0, E-M5 Mark II FW ver.2.0 or after, PEN-F (as of January 2019). ^{*3}: Mounted lens: M.Zuiko Digital ED 12-100mm F4.0 IS PRO. Focal length f = 100mm (35mm equivalent: 200mm), CIPA standard compliant, under 2-axis vibrations (yaw/pitch), with halfway release image stabilization set to OFF. Body: E-M1X (as of January 2019).

^{*4}: CIPA standard compliant, under 2-axis vibrations (yaw/pitch), with halfway release image stabilization set to OFF. Bodies: E-M1X, E-M1 Mark II, E-M1 Ver. 4.0, E-M5 Mark II Ver. 2.0, PEN-F (as of January 2019). ^{*5}: M.Zuiko Digital ED 40-150mm F2.8 PRO/ M.Zuiko Digital ED 300mm F4.0 IS PRO.

M.Zuiko Digital ED
17mm
F1.2 PRO
Equivalent to 34mm (35mm equiv.)





In addition to offering a gorgeous feathered bokeh effect at F1.2 open aperture, the newly developed ED-DSA lens provides impressive imaging power. It's the ideal lens for landscape and documentary shooting. Features our acclaimed dustproof, splashproof, freezeproof design.

- Closest focusing distance: 0.2 m • Size: maximum diameter x length: $\phi 68.2 \times 87\text{mm}$ • Weight: 390 g • Lens Hood (included): LH-66C

M.Zuiko Digital ED
45mm
F1.2 PRO
Equivalent to 90mm (35mm equiv.)





In addition to offering a lovely feathered bokeh effect at F1.2 open aperture, this lens delivers a brilliant imaging performance made possible by an impressive suite of special lens elements, making it ideal for portraits that reflect the subject's mood and emotions. Features our acclaimed dustproof, splashproof, freezeproof design.

- Closest focusing distance: 0.5 m • Size: maximum diameter x length: $\phi 70 \times 84.9\text{mm}$ • Weight: 410 g • Lens Hood (included): LH-66B

Protection Filters

PRF-ZD62 PRO	For ED 17mm F1.2 PRO, ED 25mm F1.2 PRO, ED 45mm F1.2 PRO
PRF-D46 PRO	For ED 60mm F2.8 Macro

M.Zuiko Digital ED
25mm
F1.2 PRO
Equivalent to 50mm (35mm equiv.)





This high-resolution lens offers exquisite reproduction of the textures and details, as well as a beautiful bokeh effect from the open aperture. Thanks to the inner focus mechanism high-speed, high-precision AF has been achieved. Features our acclaimed dustproof, splashproof, freezeproof design.

- Closest focusing distance: 0.3 m • Size: maximum diameter x length: $\phi 70 \times 87\text{mm}$ • Weight: 410 g • Lens Hood (included): LH-66B

M.Zuiko Digital ED
60mm
F2.8 Macro
Equivalent to 120mm (35mm equiv.)





Useful in a wide range of macro photography from long-distance shooting to life-size macro photography for landscapes, portraits, plants, and animals. Features our acclaimed dustproof, splashproof design.

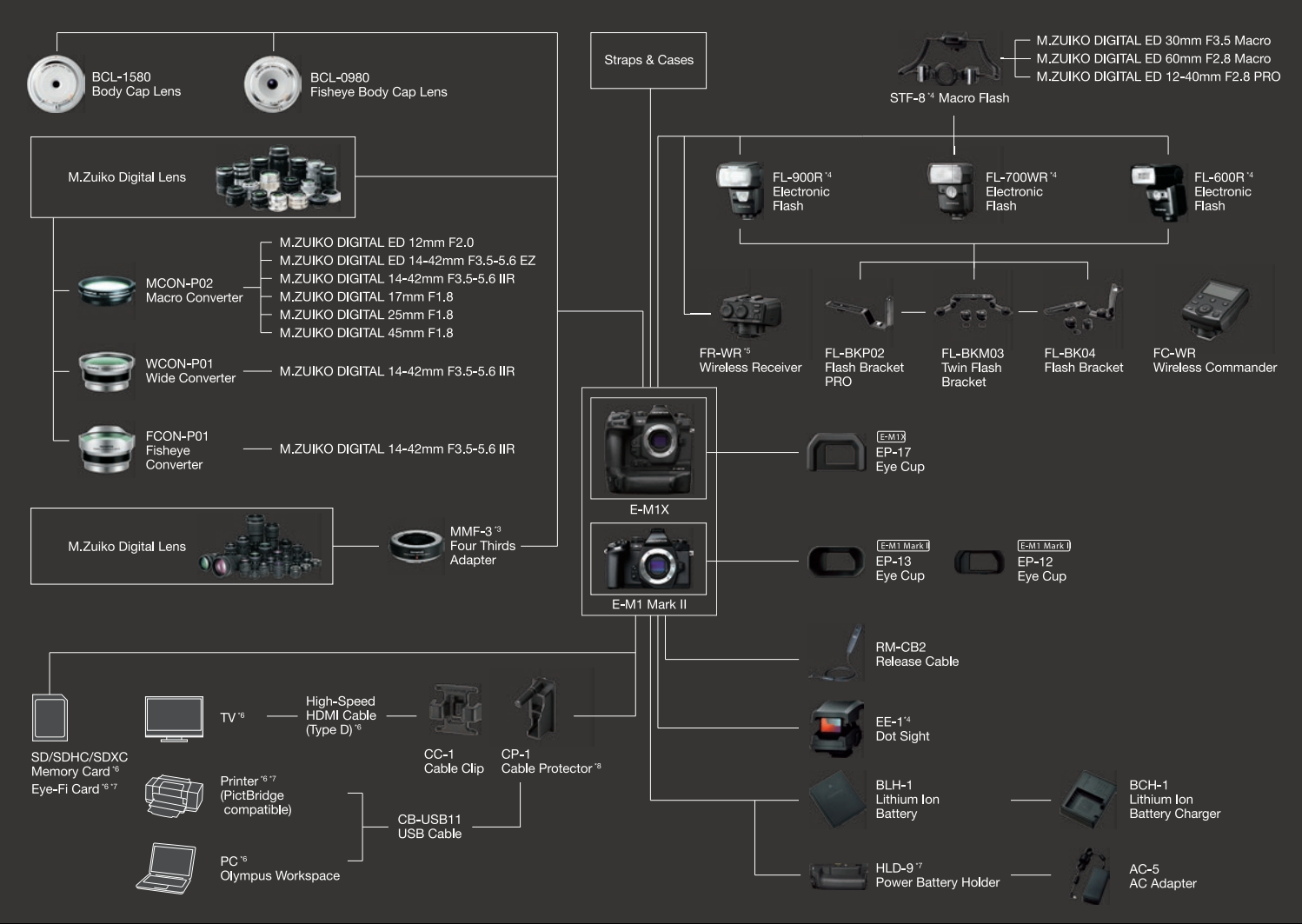
- Closest focusing distance: 0.19 m • Size: maximum diameter x length: $\phi 56 \times 82\text{mm}$ • Weight: 185 g • Lens Hood (included): LH-49

ADDITIONAL M.ZUIKO DIGITAL LENSES

	Lens name	Focal length (35mm equivalent)	Closest focusing distance (m)	Max diameter x Length (mm)	Weight (g)	Lens hood Products in () are sold separately
Wide-angle Zoom	M.Zuiko 9-18mm F4.0-5.6	18-36mm	0.25	$\phi 56.5 \times 49.5$ (with the lens retracted)	155	(LH-55B)
	M.Zuiko 14-42mm F3.5-5.6 EZ	28-84mm	0.2 (Focal length: 14mm) 0.25 (Focal length: 42mm) ^{*1}	$\phi 60.6 \times 22.5$ (with the lens retracted)	93	—
Standard Zoom	M.Zuiko 14-42mm F3.5-5.6 II R	28-84mm	0.25 (Focal length: 14-19mm) 0.23 (Focal length: 20-42mm)	$\phi 56.5 \times 50$ (with the lens retracted)	113	(LH-40)
	M.Zuiko 14-150mm F4.0-5.6 II	28-300mm	0.5	$\phi 63.5 \times 83$	285	LH-61C
Telephoto Zoom	M.Zuiko 40-150mm F4.0-5.6 R	80-300mm	0.9	$\phi 63.5 \times 83$	190	(LH-61D)
	M.Zuiko 75-300mm F4.8-6.7 II	150-600mm	0.9 (Focal length: 75mm) 1.5 (Focal length: other than 75mm)	$\phi 69 \times 116.5$	423	(LH-61E)
Macro	M.Zuiko 30mm F3.5 Macro	60mm	0.095	$\phi 57 \times 60$	128	—
	M.Zuiko 12mm F2.0	24mm	0.2	$\phi 56 \times 43$	130	(LH-48) ^{*2}
	M.Zuiko 17mm F1.8	34mm	0.25	$\phi 57.5 \times 35.5$	120	(LH-48B) ^{*2}
	M.Zuiko 25mm F1.8	50mm	0.25	$\phi 57.8 \times 42$	137	LH-49B
	M.Zuiko 45mm F1.8	90mm	0.5	$\phi 56 \times 46$	116	(LH-40B)
Fixed Focal Length	M.Zuiko 75mm F1.8	150mm	0.84	$\phi 64 \times 69$	305	(LH-61F) ^{*2}

*1: 0.29m in a certain domain in the intermediate range of zooming *2: The metal lens hood and the metal lens cap cannot be used together.

OM-D E-M1 SERIES SYSTEM CHART



*3: Some functions may not be available. Refer to the latest information available on the support page at the Olympus website. *4: Cannot be used with an accessory mounted on the hot shoe. *5: A radio wave receiver that can be controlled to the FL-700WR, FC-WR. *6: Other company's products *7: Not available with the E-M1X. *8: Not available with the E-M1 Mark II.



Electronic Flash **FL-700WR**

Despite its compact size and light weight, this flash emits high light intensity with a maximum guide number of 42. Compatible with radio wave wireless communication at up to 30 meters. Stable wireless flash emission has been made possible even in bright locations or locations with obstacles. Dustproof, splashproof and -10°C freezeproof *1 design ensures reliable performance even in outdoor environments.

- Full emission is available with about 1.5 sec. of charging time. In the case of 1/16 emission, light will be emitted by tracking the shooting when in sequential shooting of 10 fps *2 or more. Stable operation is ensured even in sequential shooting.
- This flash can be used either as the commander or receiver in wireless communications. An unlimited number of flash units can be connected provided that they are divided into 3 groups or less.

• Guide number: 42@ISO100/m • Power supply: AA alkaline battery x 4 • Recommended battery: AA alkaline battery x 4
• Bodies compatible with: E-M1X, E-M1 Mark II FW ver.2.3 or later, E-M1 FW ver.4.5 or later, E-M5 Mark II FW ver.4.1 or later, PEN-F FW ver.3.1 or later (as of January 2019).



Wireless Commander **FC-WR**

A radio wave wireless commander that can be connected to the FL-700RW or FR-WR, enabling control up to 3 groups of receiver flashes.

• Power supply: AAA alkaline battery x 2 • Recommended battery: AAA Ni-MH battery x 2• Bodies compatible with: E-M1X, E-M1 Mark II FW ver.2.3 or later, E-M1 FW ver.4.5 or later, E-M5 Mark II FW ver.4.1 or later, PEN-F FW ver.3.1 or later (as of January 2019).

Wireless Receiver **FR-WR**

A radio wave receiver that can be controlled from the FC-WR and can be connected to the FL-900R or other flash. Groups and channels can be easily set and checked with individual dials. Features a dustproof, splashproof and -10°C freezeproof *3 design. Maximum control distance is 30 meters.

• Power supply: AAA alkaline battery x 2 • Recommended battery: AAA Ni-MH battery x 2E-M1 FW ver.4.5 or later, E-M5 Mark II FW ver.4.1 or later, PEN-F FW ver.3.1 or later (as of January 2019).



Electronic Flash **FL-900R**

Multi-flash photography at high intensity is possible using the optical communication system. Emission/extinguishment and light intensity compensation for up to 4 groups of flashes can be set on the camera body. When the FR-WR is connected, the FL-900R can be used as a receiver flash and controlled using radio wave wireless communication.

- Optimized charging circuitry based on a nickel-metal Hydride (Ni-MH) battery has reduced the charging time to about 2.5 sec. Fastest sequential shooting tracking speed in its class at 10 fps *2 has been achieved.
- Multi-flash photography at high intensity has been made possible using wireless control. Emission/extinguishment and light intensity compensation for up to 4 groups of flashes can be set on the camera body.
- Guide number: 58@ISO100/m • Power supply: AA alkaline battery x 4• Recommended battery: AA alkaline battery x 4



Macro Flash **STF-8**

Specially designed for macro photography, this compact, lightweight twin flash set features our dustproof, splashproof and -10°C freezeproof *1 design, offering a wide range of macro photography expression.

- The light emitting plane is almost flush with the lens front end so the effect of the lens on the working distance is minimized.
- The guide number is as bright as 8.5 (2 units) or 6 (1 unit).

Compatible lenses	M.Zuiko Digital ED 30mm F3.5 Macro	M.Zuiko Digital ED 60mm F2.8 Macro
	M.Zuiko Digital ED 12-40mm F2.8 PRO	
	Zuiko Digital 35mm F3.5 Macro (Twin Flash Bracket FL-BKM03 is needed.)	
	Zuiko Digital ED 50mm F2.0 Macro (Step Down Ring on the market is needed.)	

• Guide number: 1 unit: 6.0@ISO100/m, 2 units: 8.5@ISO100/m • Power supply: AA alkaline battery x 4
• Recommended battery: AA alkaline battery x 4



*1: In low temperatures, warm the battery first, for example, put it into your pocket before use. *2: When the E-M1X or E-M1 Mark II is used at 1/32 emission with power supply from Ni-MH batteries. Based on in-house testing.

EXTENSIVE LINE OF ACCESSORIES TO SUPPORT YOUR CAMERA IN ANY SITUATION

Batteries



Lithium Ion Battery BLH-1

A lithium ion rechargeable battery with a large capacity of 1720 mAh. Charge status, number of available shots and the battery serial number can be checked.

Lithium Ion Battery Charger BCH-1

Charging time has been reduced 50% compared to conventional batteries. A BLH-1 large-capacity battery takes about 2 hours (at normal temperature) to recharge.



AC Adapter AC-5

For use with E-M1 Mark II in combination with the HLD-9 Power Battery Holder. Cable length is 60 cm and AC input voltage is 100-240 V.

Cables



Cable Protector CP-1

This protects the connector when a USB/HDMI cable is connected.



Cable Clip CC-1

This prevents the USB or HDMI cable from being disconnected from the camera body.

Release Cable



Release Cable RM-CB2

The bulb lock function is suitable for bulb shooting. L-shaped connector terminals with pin jacks (2.5 mm dia.) is used.

Viewfinder



Dot Sight EE-1

The removable dot sight is highly effective when shooting sports and wild birds with super-telephoto.



System Camera Bag CBG-10

Efficient accommodation for a camera body, lenses and external flashes.



Soft Camera Case CS-42SF *2

Accommodates a camera body with a lens attached to it. The case can be attached to the CBG-10 or CBG-12. voltage is 100-240 V.



Shoulder Straps CSS-P113/CSS-P118

Hand-washable (at maximum 40°C) so you don't have to worry if the strap gets dirty with dust or sweat.



Wrapping Cloth CS-35 *2

The outer surface is water repellent and the inner side is made of a soft raised fabric.



Binoculars 8 x 42 PRO

With 8X magnification and superior brightness with up to 94% spectral transmittance, these binoculars provide a sharp, clear, natural view. The waterproof/antifog construction is compatible with a variety of outdoor environments.



Binoculars 10 x 42 PRO

Just like the 8x42 PRO, this binocular viewer features brightness with up to 94% spectral transmittance. 10X magnification makes it ideal for observation of more distant subjects. Also features rugged waterproof/antifog design.

*1: Check with the airline before bringing the backpack into the cabin.
*2: To see which products can be accommodated, check the latest information on the support page at our website.

Product Type	Product type Memory Sensor size Lens mount	Micro Four Thirds interchangeable lens system camera SD, SDHC*, SDXC** *1 UHS-I, II compatible 17.4 mm (H) x 13.0 mm (V) Micro Four Thirds Mount	OM-D E-M1X	
Image Sensor	Number of pixels/ aspect ratio Dust reduction	Number of effective pixels: Approx. 20.4 million pixels Total number of pixels: Approx. 21.8 million pixels Aspect ratio: 1.33 (4:3) Supersonic Wave Filter (image sensor dust reduction system)		
Still Photo Recording	Recording image size	[RAW] 5184 x 3888 pixels [JPEG] 5184 x 3888 pixels—1024 x 768 pixels		
Image Stabilization System	Stabilization performance	7.0 EV* * Based on CIPA measurement conditions. When using M.Zuiko Digital ED 12-40mm F2.8 PRO (focal length = 40mm (35mm equivalent: 80mm)) 7.5 EV* * Based on CIPA measurement conditions. When using M.Zuiko Digital ED 12-100mm F4.0 PRO (focal length = 100mm (35mm equivalent: 200mm)), with camera body IS set to Off, Frame rate: High		
Finder	Finder type Field of view/Viewfinder magnification Eye point/ Dioptric adjustment range	Eye-level electronic viewfinder, approx. 2,36M dots Approx. 100%/Approx. 1.48x"—1.65x*" (-1m"), 50mm lens, Infinity *1: Finder Style 1, 2 (aspect ratio 4:3) *2: Finder Style 3 (aspect ratio 4:3) Approx. 21mm (-1m"), Distance from rear lens surface)/ -4--+2m'		
Monitor	Monitor type	3.0-inch vari-angle monitor** * Approx.1037k dots (3:2), electrostatic capacitance touch panel		
Focusing	AF system AF working range Focusing point/ Focusing point selection mode	High-speed imager AF: Imager phase detection AF and imager contrast AF used in combination; When a Four Thirds Lens (mount adapter sold separately necessary) is attached, imager phase detection AF is always enabled). EV -3.5--20 (ISO approx.100, with a F2.8 lens) 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)		
Exposure Control (Still)	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)		
Shutter	Shutter type	Focal-plane shutter (mechanical shutter): 1/8000—60 sec., with selectable EV adjustment steps (1/3, 1/2, 1) * Live Bulb/LiveTime: selectable exposure time (1/2/4/8/15/20/25/30 min.), with 8-min. default setting * Live Composite: 3 hours maximum shooting time Electronic first curtain shutter (Anti-shock mode): 1/320—60 sec. Electronic shutter (Silent mode): 1/32000—60 sec. Flicker Scan: Video recording 1/30 (50fps:1/50, 60fps: 1/60, Highspeed: 1/120)—1/250.0 Still 1/50.0—1/7634 * Video recording S/M mode, Still S/M silent mode only. Selectable with a minimum of 0.1		
Drive	Sequential shooting maximum speed	[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 F2.8 PRO * Maximum sequential shooting speed may be affected by several factors including lens used, brightness, aperture, shutter speed, exposure compensation and ISO setting * When in Pro Capture mode, slower shutter speeds and flash can not be used * Pro Capture L is available when an M.Zuiko lens or lens without communication capability is attached. (Auto-focus is not available for lenses without communication capability). * In Pro Capture L mode, the minimum aperture is F8.0. * 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 *		
	Sequential shooting maximum recordable frames	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 (LFI): Max. 132 frames [Sequential shooting L 10 fps] RAW: Max. 287 frames, JPEG (LFI): Until card is full [Silent Sequential Shooting H 60 fps] [Silent sequential shooting L 18 fps] RAW: Max. 74 frames, JPEG (LFI): 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		
Live ND	Live ND	With * S/M 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		
Tripod High Res Shot	Resolution	Equivalent to 50 megapixels/25 megapixels * Available in P/A/S/M mode, RAW+JPEG or JPEG. * 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.		
	Shutter Type/Shutter Speed	Electronic shutter/1/8000—60 sec.		
Handheld High Res Shot	Resolution	Equivalent to 50 megapixels/25 megapixels * Available in P/A/S/M mode, RAW+JPEG or JPEG. * 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.		
	Shutter Type/Shutter Speed	Electronic shutter/1/8000—60 sec.		
Anti-shock Mode	Shutter Type/Shutter Speed	Electronic first curtain shutter/1/320"—60sec * For speeds over 1/320 sec., mechanical shutter will automatically be selected.		
Silent Mode	Shutter Type/Shutter Speed	Electronic shutter /1/32000—60sec		
Video Recording	Recording format Mode/frame rate/ compression method	MOV (MPEG-4 AVC/H.264) [MOV] 4096 x 2160 (C4K)/24p/IPB (approx. 237 Mbps) 3840 x 2160 (4K)/30p, 25p, 24p/IPB (approx. 102 Mbps) 1920 x 1080 (FHD)/30p, 25p, 24p / ALL-L(A-L), IPB (SF, F, N) 1920 x 1080 (FHD)/60p, 50p/IPB (SF, F, N) 1280 x 720 (HD)/60p, 50p, 30p, 25p, 24p/ALL-L(A-L), 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 ALL-L(A-L)-ALL-Intra/approx. 202 Mbps], FHD IPB(SF: SuperFine/approx. 52 Mbps, F: Fine/approx. 30 Mbps, N: Normal/approx. 18 Mbps) HD ALL-L(A-L)-ALL-Intra/approx. 102 Mbps], HD IPB(SF: SuperFine/approx. 26Mbps, F:Fine/approx. 14Mbps, N: Normal/approx. 10Mbps) * Frame rates may drop when particular Art Filters is 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-L shooting.		
	Maximum recording time	Approx. 29min		
	High speed movie	120fps (1920 x 1080/MOV)		
	Image Stabilization for Movie	M-IS1* (multi motion IS by Image sensor shift and electronic image stabilizer), M-IS2 (multi motion IS by Image sensor shift), Off * Field of view varies when using M-IS1. Using lens which is equipped with image stabilization can be given top priority.		
	Movie Picture Mode	Movie Flat, OM-Log400 * View assist compatible		
Recording (Sound)	Recording format	Wave Format (Stereo Linear PCM/16-bit, Sampling frequency 48kHz) * High-Resolution Audio (Stereo Linear PCM/24-bit, Sampling frequency 96kHz) compatible		
Wi-Fi Function	GPS info. Function	Available (Via GPS smartphone) * Built-in GPS info given priority		
Menu	Languages	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		
Input/Output	USB/ Remote controller connector HDMI connector Flash attachment Wireless LAN	USB Type-C/ ϕ2.5Pin Jack (when using separately available RM-CB2). Micro HDMI (type D) Hot shoe, sync terminal Built-in (IEEE802.11a/b/g/n/ac) * Note that cameras have been developed in line with the different standards of the countries.		
	Bluetooth	Built-in (Bluetooth Ver.4.2 BLE)		
Power Requirements	Battery Number of recordable images Battery life for movie recording	Two BLH-1 Li-ion batteries (included) * It can be operated even when only one BLH-1 Li-ion battery is equipped. 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) 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		
Dimensions/Weight	Dimensions Weight	W: 144.4mm H: 146.8mm D: 75.4mm (based on CIPA standards: excludes protrusions) Approx. 997g (with 2 BLH-1 batteries and 2 Memory cards, based on CIPA standards, without eyecup) Approx. 849g (body only)		
Operating Environment	Temperature Humidity	-10°C—+40°C (when in operation)/-20—+60°C (when stored) 30—90% (when in operation)/10—90% (when stored)		
Box contents	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)		

Product Type	Product type Memory Sensor size Lens mount	Micro Four Thirds interchangeable lens system camera SD, SDHC ¹ , SDXC ¹ , Eye-Fi ² *1 Slot 1: UHS-I, II compatible Slot 2: UHS-I compatible *2 Endless mode N/A 17.4 mm (H) x 13.0 mm (V) Micro Four Thirds Mount	OM-D E-M1 Mark II
Image Sensor	Number of pixels/ aspect ratio Dust reduction	Number of effective pixels: Approx. 20.4 million pixels Total number of pixels: Approx. 21.8 million pixels Aspect ratio: 1.33 (4:3) Supersonic Wave Filter (image sensor dust reduction system)	
Still Photo Recording	Recording image size	[RAW] 5184 x 3888 pixels [JPEG] 5184 x 3888 pixels—1024 x 768 pixels	
Image Stabilization System	Stabilization performance	5.5 EV* * Based on CIPA measurement conditions. When using M.Zuiko Digital ED 12-40mm F2.8 PRO (focal length = 40mm (35mm equivalent: 80mm)) 6.5 EV* * Based on CIPA measurement conditions. When using M.Zuiko Digital ED 12-100mm F4.0 PRO (focal length = 100mm (35mm equivalent: 200mm)), with camera body IS set to Off	
Finder	Finder type Field of view /Viewfinder magnification Eye point/ Dioptric adjustment range	Eye-level electronic viewfinder, approx. 2.36M dots Approx. 100%/Approx. 1.30x ¹ —1.48x ² (~1m ³ , 50mm lens, Infinity) *1: Finder Style 1, 2 (aspect ratio 4:3) *2: Finder Style 3 (aspect ratio 4:3) Approx. 21mm (-1m ³ , Distance from rear lens surface) / -4—+2m ³	
Monitor	Monitor type	3.0-inch vari-angle monitor ⁴ * Approx.1037k dots (3:2), electrostatic capacitance touch panel	
Focusing	AF system AF working range Focusing point/ Focusing point selection mode	High-speed imager AF: Imager phase detection AF and imager contrast AF used in combination; When a Four Thirds lens (mount adapter sold separately necessary) is attached, imager phase detection AF is always enabled). EV -3.5—20 (ISO approx.100, with a F2.8 lens) 121-point cross-type phase detection AF and 121-point contrast AF/All target, single target (normal/small), group target (5-area/9-area)	
Exposure Control (Still)	ISO sensitivity	AUTO ISO (default): LOW (approx.64)—6400 with customizable default and upper limit (200—6400) Manual ISO: LOW (approx.64), 200—25600 (adjustable in 1/3 or 1 EV steps)	
Shutter	Shutter type	Focal-plane shutter (mechanical shutter): 1/8000—60 sec., with selectable EV adjustment steps (1/3, 1/2, 1) * Live Bulb / LiveTime: selectable exposure time (1/2/4/8/15/20/25/30 min.), with 8-min. default setting * Live Composite: 3 hours maximum shooting time Electronic first curtain shutter (Anti-shock mode): 1/320—60 sec Electronic shutter (Silent mode): 1/32000—60 sec Flicker Scan: Video recording 1/30 (50fps: 1/50, 60fps: 1/60)—1/250.0 Still 1/50.0—1/7634 * Video recording S/M mode, Still S/M silent mode only. Selectable with a minimum of 0.1	
Drive	Sequential shooting maximum speed Sequential shooting maximum recordable frames	[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 F2.8 PRO * Maximum sequential shooting speed may be affected by several factors including lens used, brightness, aperture, shutter speed, exposure compensation and ISO setting * When in Pro Capture mode, slower shutter speeds and flash cannot be used. * Pro Capture L is available when an M.Zuiko lens or lens without communication capability is attached. (Auto-focus is not available for lenses without communication capability). * In Pro Capture Sequential L, the minimum aperture is F8.0. * When ISO is 8000 or above, the maximum sequential shooting speed is 30 fps, 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 15fps] RAW: Max. 84 frames, JPEG (LN): Max. 117 frames [Sequential shooting L 10fps] RAW: Max. 148 frames, JPEG (LN): Until card is full [Silent sequential shooting H 60fps] RAW: Max. 48 frames, JPEG (LN): Max. 48 frames [Silent sequential shooting L 18fps] RAW: Max. 77 frames, JPEG (LN): Max. 105 frames * When using the M.Zuiko Digital ED 12-40mm F2.8 PRO and the Toshiba SDXU-B032G memory card with standard card setting in slot 1.	
Live ND	Live ND	N/A	
Tripod High Res Shot	Resolution Shutter Type/Shutter Speed	Equivalent to 50 megapixels / 25 megapixels (8 shots combined into a single JPEG using sensor shift) * Available in P/A/S/M mode, RAW+JPEG or JPEG. * JPEG: 8160 x 6120 (50M) 5760 x 4320 (25M)/RAW: 10368 x 7776 * RAW data can be developed in-camera. Development by PC is possible with Olympus Workspace. Electronic shutter 1/8000—60 sec.	
Handheld High Res Shot	Resolution Shutter Type/Shutter Speed	N/A	
Anti-shock Mode	Shutter Type/Shutter Speed	Electronic first curtain shutter 1/320*—60sec * For speeds over 1/320 sec., mechanical shutter will automatically be selected.	
Silent Mode	Shutter Type/Shutter Speed	Electronic shutter / 1/32000—60sec	
Video Recording	Recording format Mode / frame rate/ compression method Maximum recording time High speed movie Image Stabilization for Movie Movie Picture Mode	MOV (MPEG-4AVC/H.264) [MOV] 4096 x 2160 (C4K) /24p/IPB (approx. 237 Mbps) 3840 x 2160 (4K) /30p, 25p, 24p/IPB (approx. 102 Mbps) 1920 x 1080 (FHD) /30p, 25p, 24p /ALL-I (A-I), IPB (SF, F, N) 1920 x 1080 (FHD) /60p, 50p/IPB (SF, F, N) 1280 x 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 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) [AVI] HD (1280 x 720) /30p Frame rates may drop when particular Art Filters and Movie Effects are used. * Speed Class 10 SD card is recommended for shooting movies. * UHS-II or UHS-I Speed Class 3 card is recommended for 4K, C4K, ALL-I shooting. Approx. 29min N/A M-IS1* (multi motion IS by Image sensor shift and electronic image stabilizer), M-IS2 (multi motion IS by Image sensor shift), Off * Field of view varies when using M-IS1. Using lens which is equipped with image stabilization can be given top priority. Flat	
Recording (Sound)	Recording format	Wave Format (Stereo linear PCM/16-bit, Sampling frequency 48kHz)	
Wi-Fi Function	GPS info, Function	Available (Via GPS smartphone) * Built-in GPS info given priority	
Menu	Languages	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	
Input/Output	USB/ Remote controller connector HDMI connector Flash attachment Wireless LAN Bluetooth	USB Type-C/ φ2.5Pin Jack (when using separately available RM-CB2). Micro HDMI (type D) Hot shoe, sync terminal Built-in (IEEE802.11b/g/n) N/A	
Power Requirements	Battery Number of recordable images Battery life for movie recording	BLH-1 Li-ion battery (included) Approx. 440 shots (using BLH-1 and Toshiba SDHC UHS-I Card Exceria with IS ON, with no flashes attached, based on CIPA test standards) Approx. 950 shots (using quick sleep mode, under Olympus testing conditions based on CIPA test standards) Approx. 90 minutes* (under standard JEITA testing) Approx. 150 minutes* (when zoom and other operational functions are not used) * When repeatedly recording at the maximum time of 29 minutes	
Dimensions/Weight	Dimensions Weight	W: 134.1mm H: 90.9mm D: 68.9mm (based on CIPA standards: excludes protrusions) Approx. 574g (with BLH-1 battery and Memory card, based on CIPA standards, without eyecup) Approx. 498g (body only)	
Operating Environment	Temperature Humidity	-10°C—+40°C (when in operation) / -20—+60°C (when stored) 30—90% (when in operation) / 10—90% (when stored)	
Box contents	Box contents	Body, USB cable, cable clip, shoulder strap, instruction manual, warranty card, Flash (FL-LM3), BLH-1 Li-ion battery, BCH-1 Li-ion battery charger	

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