

## Specifications

### E-P7

#### Type

Lens mount Micro Four Thirds

#### Image Sensor

Type 4/3" Live MOS sensor

Effective pixels 20.3 Megapixels

#### Engine

Type TruePic VIII

#### Filter

Dust reduction filter Supersonic Wave Filter

#### Live View

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

Field of view Approx. 100%

Magnification levels 5 / 7 / 10 / 14 x

#### Image Stabiliser

Type Sensor shift

Modes Five-dimensional, vertical or horizontal activation, automatic

Effective Compensation Range Up to 4.5 EV steps\* CIPA

Live View stabilisation Available

\* According to CIPA standards.

\*When using M.Zuiko Digital ED 14-42mm F3.5-5.6 EZ (focal length =42mm (35mm equivalent: 84mm))

#### Focusing System

Method Contrast Detection AF system

Focus areas 121 points / All target, Group target (9-areas), Single target

AF lock Available, Locked by first position of shutter release button in single AF mode, AE/AF lock button (customised)

Modes Manual focus, Single AF, Continuous AF, Single AF + MF, AF Tracking, Super Spot AF, Face Detection AF

AF illuminator Equipped

Manual focus Available, With enlarged focusing area or focus peaking

AF targeting pad No

Face Detection extension Eye Detect AF: Off, Near side priority

Predictive AF Available

#### Focusing System

AF tracking Available, Available in continuous AF mode

#### Exposure System

Modes Programme automatic, Aperture priority, Shutter priority, Manual, Bulb, Time, i-Auto, Advanced Photo Modes, Scene Modes, Art Filter, Movie, Live Time, Live Composite

Exposure compensation +/- 5 EV ( 1/3 steps )

Note: Movie shooting, monitor and EVF displays only up to ±3 EV .

AE lock Available

#### Advanced Photo Modes

Modes Live Composite, Live Bulb, Multiple Exposure, HDR Backlight\*, Silent, Panorama, Keystone Compensation, AE bracketing, AF bracketing

\* 4 images automatically shot and combined into a single image composite

#### Scene Modes

Number of scene modes 21

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

#### Multi-Exposure

Max. number of frames 2 frames (shooting)

Frame assistance Live View

Auto gain control Available

#### Light Metering

Method TTL open aperture light metering

Zones 324 zones Multi-pattern Sensing System

Detection range -2 - 20 EV (f2.8, ISO 100)

Modes ESP light metering, Spot metering, Centre weighted metering, Highlight, Shadow

#### Art Filter

Modes Pop Art, Soft Focus, Pale & Light Colour, Light Tone, Grainy Film, Pin Hole, Diorama, Cross Process, Gentle Sepia, Dramatic Tone, Key Line, Water colour, Vintage, Partial Colour\*, Bleach Bypass, Instant Film

Variation / Effect Available

\* 18 colours selectable

#### Sensitivity

Auto ISO LOW\* - 6400

Manual ISO LOW - 25600 (adjustable in 1/3 EV step)

\*approx. 100

#### Shutter

Shutter type Computerised focal-plane shutter

Self timer 2 s / 12 s / Custom

#### Shutter

Modes Single frame, Sequential shooting, Self timer

#### Shutter Speeds

##### Standard operation

Shutter speed range 1/4000 - 60 s (in 1/3 EV steps)

Bulb mode Up to 30 minutes (selectable longest time in the menu, default: 8 minutes)

##### Silent mode

Shutter type Electronic shutter

Shutter speed 1/16000 - 60 s

##### Anti-shock mode

Shutter type Electronic first curtain shutter

Shutter speed 1/320\* - 60 s

\* For speeds over 1/320 sec., mechanical shutter will automatically be selected.

#### White Balance

Manual White balance (One-Touch) Available

One-touch white balance 4 custom settings can be registered

Custom WB 1 setting can be registered at Kelvin temperature (2000K - 14000K)

Preset values Sunlight, Shade, Overcast, Tungsten, Flourescent 1, Flash

Auto Flash adjustment Off / Auto WB / Flash

Keep warm colour On / Off

#### Sequence Shooting

Speed (H) Approx. 8.7 fps

Speed (L) 5 fps (IS on)

Max. number of frames Up to card capacity (RAW)  
Up to card capacity (JPG / Large Normal mode)

Conditions Memory card: KIOXIA SDXU-D032G

Note: Depending on shooting conditions, the sequential shooting speed may reduce speed during shooting.

Speed (H) Approx. 15 fps

Speed (L) Approx. 6.3 fps

Max. number of frames: RAW 42 / JPG (LF): 49

Max. number of frames: RAW 945 / JPG (LF): Up to card capacity

#### Image Processing

Art Filter bracketing Available

Picture mode Colour Profile Control, Monochrome Profile Control, Art Filter

#### Flash

Modes AUTO, Manual, Manual (Full, 1/4, 1/16, 1/64), Red-eye reduction, Slow synchronisation with red-eye reduction, Slow synchronisation, Slow synchronisation 2nd curtain, Fill-in, Off, TTL-Auto

## Flash

Type	Built-in
Flash compensation	+/- 3 EV / 1/3 EV steps
Guide number	7.6 (ISO 200)
X-sync speed	1/250 s / 1/4000 s (Super FP Mode)

## External Flash Control

X-sync speed	1/250 s / 1/4000 s (Super FP Mode)
Type	TTL AUTO, AUTO, MANUAL, FP TTL AUTO, FP MANUAL
Modes	Auto, Red-eye reduction, Slow synchronisation, 2nd curtain and slow synchronisation, Fill-in for exclusive flash, Manual
Compatible external flash	FL-14, FL-20, FL-36R, FL-50R, FL-300R, FL-600R, FL-700WR, FL-900R, STF-8

## Wireless Flash Control

Compatible external flash	FL-36R, FL-50R, FL-300R, FL-600R, FL-700WR, FL-900R
Control method	Triggered and controlled (Olympus Wireless RC Flash system)
Commander flash:	FL-900R, FL-700WR, FL-600R, STF-8 (no control with internal flash)
Available when used together with flashes from the Olympus wireless RC flash system.	

## Radio control

Radio wireless control	Available when attaching optional flash commander.
Compatible commander	FC-WR, FL-700WR
	For more details see specifications of commander units.

Compatible receiver	FL-700WR, FR-WR + wireless RC system flash
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Modes	Auto, FP Manual, FP TTL, FP TTL Auto, Manual
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## Monitor

Monitor type	Tiltable LCD - Touch Panel
Monitor size	7.6 cm / 3.0" (3:2)
Resolution	1,037 K dots
Brightness adjustment	+/- 7 levels
Colour balance	+/- 7 levels Vivid (default) / Natural
Touch Control functions	Shutter release, AF area enlargement, AF area selection, Art Filter, Enlargement, Enlargement playback, Frame forward/backward, Live Guide, Scene Modes, Shooting mode, Super Control Panel, Wi-Fi connection
Tilt angle	80° (up) 180° (down)

## Level Gauge

Detection	2-axis
Display	Rear display and viewfinder

## Recording Formats

RAW	12 bit
RAW & JPEG	Applied parallel recording

## Recording Formats

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

## Still Image Recording

EXIF	2.31
DCF	Applied

## Movie Recording System

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

## Movie Specialties

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

## Sound Recording System

Internal microphone	Stereo
Recording format	Stereo PCM/16bit, 48kHz, Wave Format Base
Image footage	30 s
Speaker	Equipped
Microphone functions	Wind Noise Reduction, Recording Volume

## View Images

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

## Erase / Protect / Copy Function

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

## Image Editing

Editing functions	RAW data edit, Red-eye reduction, Sepia, Black & White, Shadow Adjustment, Trimming, Aspect ratio
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## Menu

Menu languages in camera	English, French, German, Spanish, Italian, Russian, Czech, Dutch, Danish, Polish, Portuguese, Swedish, Norwegian, Finnish, Croatian, Slovenian, Hungarian, Greek, Slovak, Turkish, Latvian, Estonian, Lithuanian, Ukrainian, Serbian
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## Customisation Options

Fn Button	Equipped
Programmable button	Equipped

## Interface

Hot shoe	Equipped
Media	SD Memory Card (SDHC, SDXC, UHS-I, UHS-II compatible) Class 10 or higher SD card is recommended for movie shooting UHS-I U3 card is recommended for 4K
HDMI™	Applied Micro connector (Type D) *
USB 2.0 High Speed	Applied
Wireless connectivity	Wi-Fi, Bluetooth®
Communication method	Bluetooth® Low Energy Ver.4.2

\* "HDMI", the HDMI logo and "High-Definition Multimedia Interface" are trademarks or registered trademarks of HDMI Licensing LLC.  
\* Wi-Fi is a registered trademark of the Wi-Fi Alliance.  
\*\* The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by OLYMPUS CORPORATION is under license.

## Wi-Fi Functions

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

## Other Features

Face Detection Technology	Applied
Menu guide	Available

## Power Supply

Battery	BLS-50 Lithium-Ion Battery (included)
Sleep mode	1, 3, 5min. and off selectable.
Live View shooting	Approx. 360 images (50% with Live View) images (100% with Live View) (using BLS-50 and KIOXIA SD with IS ON, based on CIPA testing standards)
Movie recording	80 min (standard JEITA conditions) 140 min (When repeatedly recording at the maximum time of 29 minutes, using M.Zuiko Digital ED 14-42mm F3.5-5.6 EZ, 4K video shooting)

## Battery life

**Power Supply**

Internal Charging Available (Camera must be switched off)

**Environment**

Temperature 0 - 40°C Operating temperature / -20 - 60°C storage temperature

Humidity 30 - 90% operation humidity / 10 - 90% storage humidity

**Dimensions / Weight**

Width 118.3 mm

Height 68.5 mm

Depth 38.1 mm

Weight 337 g (including battery and memory card) (without tripod adapter)