

Specifications for E-500



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Model	Olympus E-500
Type	Interchangeable digital SLR camera.
Compatible lens	ZUIKO Digital, FourThirds System lens.
Lens mount	FourThirds mount.
Body	Engineering plastics.
Media	CompactFlash card (Type I and II), Microdrive, xD picture card. (Dual slot)
Effective pixel number	8 million pixels.
Image size	17.3mm x 13.0mm.
Image sensor	
Type	4/3 type Full Frame Transfer CCD solid-state image sensor.
Total pixel number	8.15 million pixels.
Aspect ratio	4:3.
Filter array	Primary colour filter (RGB).
Filter	
LPF	Fixed type.
IR cut filter	Hybrid type.
Dust protect filter	Supersonic Wave Filter.
Viewfinder	
Type	Eye-level TTL Dach mirror type optical view finder.
Field of view	Approx. 95%.
Magnification	Approx. 0.9x with a 50mm lens set to infinity at -1 dioptres.
Eye point	Approx. 10 mm at -1 dioptres.
Diopter adjustment	Built-in type -3.0 to +1.0 dioptres.
Focusing screen	Fixed type.
Mirror	Quick return mirror.
Viewfinder information	AF frame (super impose), AE lock, AF confirmation mark, Metering mode, Exposure mode, Shutter speed, Aperture value, White balance, Exposure compensation value indicator , Flash, Battery check , Record mode, Number of storable still pictures.
Depth of field preview	Yes (customised One-touch WB button).
Eye cup	Interchangeable type EP-5/6, EP-5 supplied.
Eye piece shutter	Eye piece cap EP-4 supplied.
Autofocus	
Type	TTL phase difference detection system.
Focus modes	Single AF, Continuous AF, Manual focus, Single AF + MF, and Continuous AF + MF .
Detection range	EV 0 to 19 (ISO 100).
Focus areas	3 points.
Focus area selection	Automatic and manual selection.

AF assist lamp	Built-in flash, optional Olympus dedicated flashes.
AF lock	Locked by first position of shutter release button, AE/AF lock button (customised)
Focus tracking	Available in continuous AF mode.
Focus aid	Available.
Manual focus	Available by rotating focus ring, available for setting manual focus operation in AF mode (customised).
Exposure control	
Light metering system	TTL open aperture light metering with 49-zones multi-pattern sensing system.
Light metering modes	Digital ESP, Centre-weighted average and Spot (about 2% of entire frame).
Detection range	Digital ESP, centre-weighted average: EV 1 to 20 (50mm f2, ISO 100). Spot: EV 3 to 17 (50mm f2, ISO 100).
Exposure modes	Auto, Programme with programme shift, Shutter Priority, Aperture Priority, Manual.
Scene programmes	Portrait, Landscape, Macro, Sports, Night Scene & Portrait.
Scene select	Portrait, Landscape, Landscape & Portrait, Night Scene, Night Scene & Portrait, Firework, Sunset, Macro, Sports, High Key, Low key, Document, Beach & Snow, Candle, Children.
Exposure compensation	Up to +/- 5 EV in each 1, 1/2, or 1/3 EV steps.
AE lock	Locked by first position of shutter release or AE/AF lock button (customised).
Exposure bracketing	3 frames in +/- 1, 2/3, 1/2, or 1/3 EV steps (selectable).
Sensitivity	
Auto	ISO 100 to 400.
Manual	ISO 100 to 400. Expandable to 1600 (in each 1/3 EV steps possible).
Shutter	
Type	Electronically controlled focal plane shutter.
Shutter speed	Auto, P, Ps, A mode: 1/4000 – 60 sec. (depend on conditions) S mode: 1/4000 – 60 sec. M mode: 1/4000 – 60 sec. and bulb (up to 8 min.) Scene mode: 1/4000 – 2 sec .
X-sync speed	X = 1/180 sec. Super FP up to 1/4000 sec.
Shutter release	Soft-touch electromagnetic release.
Self-timer	12 or 2 sec (possible to cancel).
Remote control	Yes (including bulb function), with RM-1 (option).
Drive system	
Drive modes	Single and sequential shooting.
Sequential shooting speed	Approx. 2.5 fps.
Max. frame number on sequential shooting	RAW / TIFF 4 frames, JPEG (HQ, SQ) up to card capacity with high speed media (SunDisk Extreme III) .
White balance system	
Auto WB system	Advanced detection system with CCD imager.
Preset WB	8 type (3000K – 7500K). Lamp 1 (3000K), Fluorescent 1 (4000K), Fluorescent 2 (4500K), Fluorescent 3 (6600K), Daylight (5300K), Cloudy (6000K), Shade (7500K)
Custom WB	1 custom setting (in Kelvin).
WB compensation	R – B / G – M, up to +/-7 steps in each 2 mired for both auto and preset settings.
On touch white balance	1 one touch setting
WB bracketing	3 frames with +/- 4/8/12 mired steps.
Processing	
Image processing	TruePic TURBO.
Colour space	sRGB / Adobe RGB.
Picture mode	Vivid, Natural, Muted, Black & White, Sepia.

Colour saturation	5 levels in each Vivid, Natural, Muted mode.			
Sharpness	5 levels in each Picture mode.			
Contrast	5 levels in each Picture mode.			
Filter	Yellow, Orange, Red, Green in Black & White mode.			
Toning	Sepia, Blue, Red, Green in Black & White mode.			
Gradation	3 levels (high key, normal, low key).			
Built-in flash				
Type	Auto pop-up type, TTL auto or manual.			
Synchronisation modes	Auto, Manual , Red-eye reduction, Slow syncro, 2nd curtain slow syncro , Fill-in.			
Synchronisation timing	1 st /2 nd curtain selectable.			
Guide number	Approx. 13.			
Intensity control	Up to +/- 2EV in each 1, 1/2, or 1/3 EV steps.			
External flash control				
Type	TTL auto FP / TTL auto for Olympus dedicated flash, auto or manual. (TTL auto with FL-20, FL-36, FL-50)			
Synchronisation modes	Auto, Manual, Red-eye reduction, Slow syncro, 2nd curtain slow syncro , Fill-in for exclusive flash.			
Synchronisation timing	1 st /2 nd curtain selectable.			
Intensity control	Up to +/- 2EV in each 1, 1/2, or 1/3 EV steps.			
Control panel				
Control panel information	Metering mode, Exposure mode, Aperture value, Shutter speed, Exposure level indicator, Exposure compensation value, Exposure compensation indicator, AE bracket, ISO, Colour space, Picture mode, Gradation, Colour saturation compensation value, Sharpness compensation value, Contrast compensation value, White balance, White balance compensation value, Noise reduction mode, AE lock, Flash mode, Flash compensation value, Focus mode, AF frame, Drive mode, Record mode, Number of storable still pictures, Selected memory card, Battery check.			
Playback monitor				
Type	Hyper crystal LCD panel.			
Size	2.5 inch / 6.4cm.			
Pixel number	215.250 pixels.			
Field of view	Approx. 100%.			
Brightness control	+/- 7 steps.			
Playback functions				
Display mode	Single, Zoom (2, 3, 4, 6, 8, 10, 14x), Index (4, 9, 16, 25 frames), Slide show, Calendar view, Rotation, Light box view .			
Information	Exposure mode, Metering mode, Shutter speed, f-stop, Compensation level, ISO, Colour space, White balance mode, White balance compensation level, Focal length, Focus area, File type, Picture mode, Contrast level, Sharpness level .			
Exposure level view	Histogram (R, G, B available) , High light point warning, Shadow point warning,			
Erase / protect function				
Erase modes	Single, All, Selected .			
Image protect mode	Single			
Recording system				
Type of recording format	DCF, DPOF compatible, EXIF2.2 compatible, PRINT Image Matching II compatible .			
Type of file format	JPEG, TIFF (RGB 8 bit), RAW (12bit).			
RAW+JPEG recording	Yes.			
File size	RAW:	3264 x 2448	uncompressed	Approx. 13.6 MB
	TIFF:	3264 x 2448	uncompressed	Approx. 24.5 MB

SHQ:	3264 x 2448	1/2.7	Approx. 6.4 MB
HQ:	3264 x 2448	1/4	Approx. 4.5 MB
		1/8	Approx. 2.5 MB
		1/12	Approx. 1.8 MB
		1/2.7	Approx. 6.2 MB
SQ:	3200 x 2400	1/4	Approx. 4.4 MB
		1/8	Approx. 2.4 MB
		1/12	Approx. 1.8 MB
		1/2.7	Approx. 3.7 MB
	2560 x 1920	1/4	Approx. 2.5 MB
		1/8	Approx. 1.3 MB
		1/12	Approx. 0.8 MB
		1/2.7	Approx. 1.5 MB
	1600 x 1200	1/4	Approx. 1.0 MB
		1/8	Approx. 0.5 MB
		1/12	Approx. 0.4 MB
		1/2.7	Approx. 0.9 MB
	1280 x 960	1/4	Approx. 0.6 MB
		1/8	Approx. 0.3 MB
		1/12	Approx. 0.2 MB
		1/2.7	Approx. 0.6 MB
	1024 x 768	1/4	Approx. 0.4 MB
		1/8	Approx. 0.2 MB
		1/12	Approx. 0.2 MB
		1/2.7	Approx. 0.3 MB
	640 x 480	1/4	Approx. 0.2 MB
		1/8	Approx. 0.1 MB
		1/12	Approx. 0.1 MB
		1/2.7	Approx. 0.1 MB

Image editing

RAW development	Yes.
JPEG/TIFF editing	Yes (Black & White, Sepia, Red eye reduction, Colour saturation , Resize,).
PictBridge	Yes.

Menu

Category	Shooting menu 1, Shooting menu 2, Playback menu, Custom menu, Setup menu.
Languages	Default 4 languages (English, German, Spanish, French), Optionally, one language can be downloaded via internet.

Interface

PC interface	USB 2.0 (Full speed) mini B (storage, camera control) .
Video signal output	NTSC or PAL selectable.
Synchro socket	Hot shoe.

Power supply

Battery	Rechargeable Li-Ion battery pack BLM-1, 3x CR123A with LBH-1 .
Size / weight	
Dimensions	129.5 x 94.5 x 66mm .
Weight	Approx. 435 g (without batteries and CF card).
Miscellaneous	
Battery check	Automatic check.
Sleep mode	Yes (Off, 1, 3, 5, 10 min. selectable).

Power off mode Yes (Off, 4hours selectable).

Environment

Temperature Operating range: 0°C to 40°C. Storage range: -20°C to 60°C.

Humidity Operating range: 30 to 90%. Storage range: 10% to 90%.

Box contents E-300 body, USB cable, video cable, Li-Ion battery pack (BLM-1) or CR123A battery holder (LHD-1), Li-Ion battery charger (BCM-2) or not, shoulder strap, Olympus Master CD-ROM, instruction manuals, warranty card.

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