

OLYMPUS

Your Vision, Our Future

**PROFESSIONALISM
KNOWS NO COMPROMISE.**

The new Olympus -System.

The body



THE FIRST FULLY DIGITAL

To date digital photography with professional SLR cameras has been a compromise between digital image recording and lenses designed for 35mm film cameras. In the new digital Olympus E-System, based on the innovative FourThirds Standard,



Photographer: Kanjo Take



Photographer: Kanjo Take



Photographer: Jo van den Berg

- The Olympus E-System is the first professional SLR system designed completely from scratch for digital photography.
- The lenses are designed specifically for digital technology, thus allowing the image sensor's potential to be fully exploited. As well as this the lenses are smaller, lighter and brighter, making the camera system as a whole more compact, more stable and easier to use.
- Thanks to a unique information exchange system, it is possible for lenses with extreme designs, such as super wide angle, to give information about the lens characteristics such as vignetting and distortion to the body. Based on this information the camera and the application software can compensate each other precisely. This is a valuable feature to overcome the limitations of optical lens designs.

SLR-SYSTEM.

Olympus has combined its outstanding expertise in the fields of digital photography and optical technology and is setting new standards in the world of professional photography.



Photographer: Joachim Baldauf



Photographer: Kanjo Take



Photographer: Jo van den Berg

- The new FourThirds Standard ensures optimum image quality, camera formats and system versatility, and as an open standard offers entirely new opportunities for manufacturers and photographers all over the world.
- The Olympus Global Professional Service is a worldwide organisation offering the professional photographer the very highest standards of reliable and efficient service and support.

THE NEW BENCHMARK IN PROFESSIONAL PHOTOGRAPHY.

The Olympus E-1 represents the dawn of a new era, differing radically from any previous solution. When developing a new wholly digital single-lens reflex camera system there can be only one approach, to put each individual component under the microscope and completely re-define it if necessary. This process led to the development of the new FourThirds Standard on the basis of which not only new lenses and accessories but also a new body has been developed, with every last detail perfectly tailored to the demands of professional digital single-lens reflex technology. The new full-frame transfer CCD sensor guarantees digital images with the highest-possible dynamic range and optimum colour reproduction. Special functions ensure a minimum of image noise. The lenses have been designed to work perfectly with the CCD sensor in order to fully exploit its potential performance. The innovative Supersonic Wave Filter eliminates the problem of dust on the sensor, meaning that image quality is never compromised. Durability, reliability and functional logic were top development priorities. The lens mount, buttons, dials and shutter have been designed to ensure they can meet the everyday demands of professional photography in any situation. The Olympus E-1 has a magnesium alloy body, which makes it extremely robust and ideally suited for daily use both indoors and outdoors. The material's lightness makes handling and transporting the camera easier, and the body is fitted with the necessary sealings to protect the precise optical and digital technology from water splashes.

The advantages of the Olympus E-System

The professional photographer demands a high degree of flexibility to ensure that his equipment can master any tasks he might encounter. With the Olympus E-1 the photographer is not just getting a new camera but a complete system solution specially tailored to the demands of professional digital single-lens reflex photography.

The product range from lenses to flash systems to a variety of software solutions to accessories for special tasks, for instance focussing screens. The perfect match of the system components delivers significant benefits in terms of

- Image quality
- Image control
- Speed
- Ease of operation
- Durability
- Data transmission and editing









A high degree of image quality

One of the primary goals when designing the Olympus E-1 was to guarantee the highest possible image quality.

This is delivered by:

- high-resolution lenses
- camera design based on the FourThirds Standard
- a high-performance image sensor tailored to that standard

Full Frame Transfer CCD

The Olympus E-1 features a FourThirds Full Frame Transfer CCD sensor offering an effective resolution of five million pixels (total number of 5.5 million pixels). Unlike many of the sensors used in digital

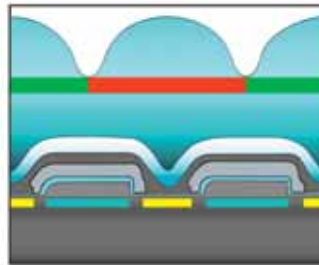


cameras, this powerful sensor has been specially designed for still photography. Previously Full Frame Transfer (FFT) CCDs were chiefly used for the digital backs of medium-format cameras. This FFT CCD sensor stands out for its significantly larger light-sensitive surface (1.5 times larger than a similar size and resolution Interline CCD) and the fact that it delivers considerably more image information. One reason for this is that each pixel in a conventional CCD consists of not only a photodiode which generates the signal but also of a so-called transfer channel

which conducts signals to the processors. Because the FFT CCD sensor uses the photodiodes themselves as part of the transfer channel to read out data, there is less need for a separate transfer channel. Therefore, the area available to use for the photodiode is maximised resulting in larger photodiode area for each pixel. The larger photodiode area means more light is captured and therefore available for better signal generation. The result is reflected in both significantly more useable image data and in greater sensitivity and a wider dynamic range, leading to exceptionally fine brightness gradations in bright and dark parts of the image.

The ratio of signal data to interference data (noise) has also been significantly improved, thus optimising noise suppression in dark conditions or with high ISO values.

Interline Transfer Type



Full Frame Transfer Type

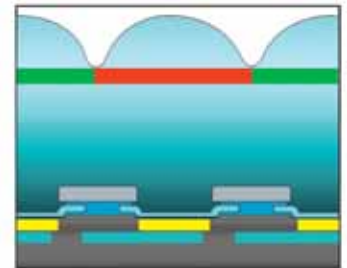


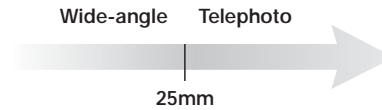
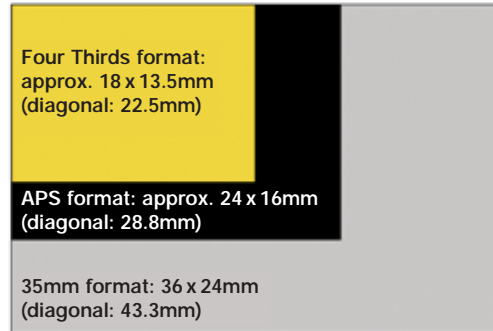
Photo Diode
Transfer Channel

High performance image capture

With its Full Frame Transfer architecture, the Olympus E-1 image sensor ensures images make a remarkable impression.

The most important features of the Full Frame Transfer CCD:

- Effective 5.08 million pixels, total 5.5 million pixels
- FourThirds type sensor with a 4:3 aspect ratio (image size 17.3 x 13.0mm)
- Blooming protection for each element
- On-chip RGB mosaic colour filter with microlenses for improved colour
- Low pass filter fixed to the sensor in order to avoid moiré effect



Communication

Communication between the lens and the camera body delivers improved image control. Information about vignetting and distortion is transmitted from the lens to the body so that the camera software can immediately compensate.



The dust protection system

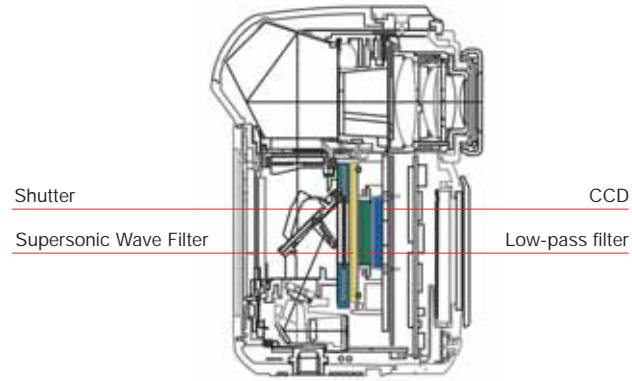
Dust is a much greater problem for digital cameras than for 35mm film cameras.

With SLRs in particular there is a real risk that dust will enter the camera while the lens is being changed.

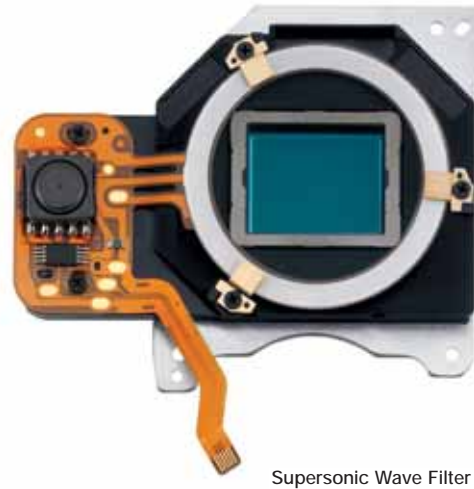
With film cameras dust particles move with the film as it is wound on so that only one picture is normally affected. However, if a dust particle falls on a digital camera's image sensor, it normally remains there, to be joined over the course of time by further dust particles. Furthermore, the individual pixels are so miniscule that even the tiniest dust particle may cover several sensors, and over time this will lead to a significant deterioration in image quality.

The Olympus E-1 features the Supersonic Wave Filter, which is a unique dust protection system. A dust filter sealed just in front of the CCD is surrounded by an ultrasound generator which ensures that, in less than a second, particles of any kind can be removed from the filter by ultrasound vibration.

The anti-dust function is automatically activated each time the camera is switched on or whenever pixel mapping is carried out.



Cross-section of the Olympus E-1



Supersonic Wave Filter



Speed

In photography high quality results are not the only thing that matters: speed is also vital. The design of Olympus E-1 provides both fast image capture and rapid data processing.

Continuous shooting at a speed of three frames a second is possible, for up to 12 exposures in any image quality mode even including TIFF. This outstanding performance is due to the internal buffer memory of 128 MB and the use of three ASIC (Application-Specific Integrated Circuit) processors, allowing parallel data processing at maximum speed.

Three ASIC (Application-Specific Integrated Circuit) system for rapid data processing

To deliver lightning-fast data processing the Olympus E-1 uses a separate dedicated ASIC for each of the following:

ASIC 1: Image processing

ASIC 2: Interface processing

ASIC 3: Camera control



Speed

Exposure modes

Four exposure modes are available: Program (P), Aperture priority (A), Shutter speed priority (S) and Manual (M).



In Program mode the photographer has the option of Program-Shift which allows a change of shutter speed and aperture values, while maintaining the optimum exposure value.

Metering systems

A three-zone multi-field metering system provides accurate exposure metering. The TTL (Through The Lens) light metering allows the system to automatically determine the optimum exposure setting when filters, different lenses or accessories are being used.

An eyepiece shutter ensures that the meter readings are not falsified due to light passing through the viewfinder, for instance when operating the self-timer.

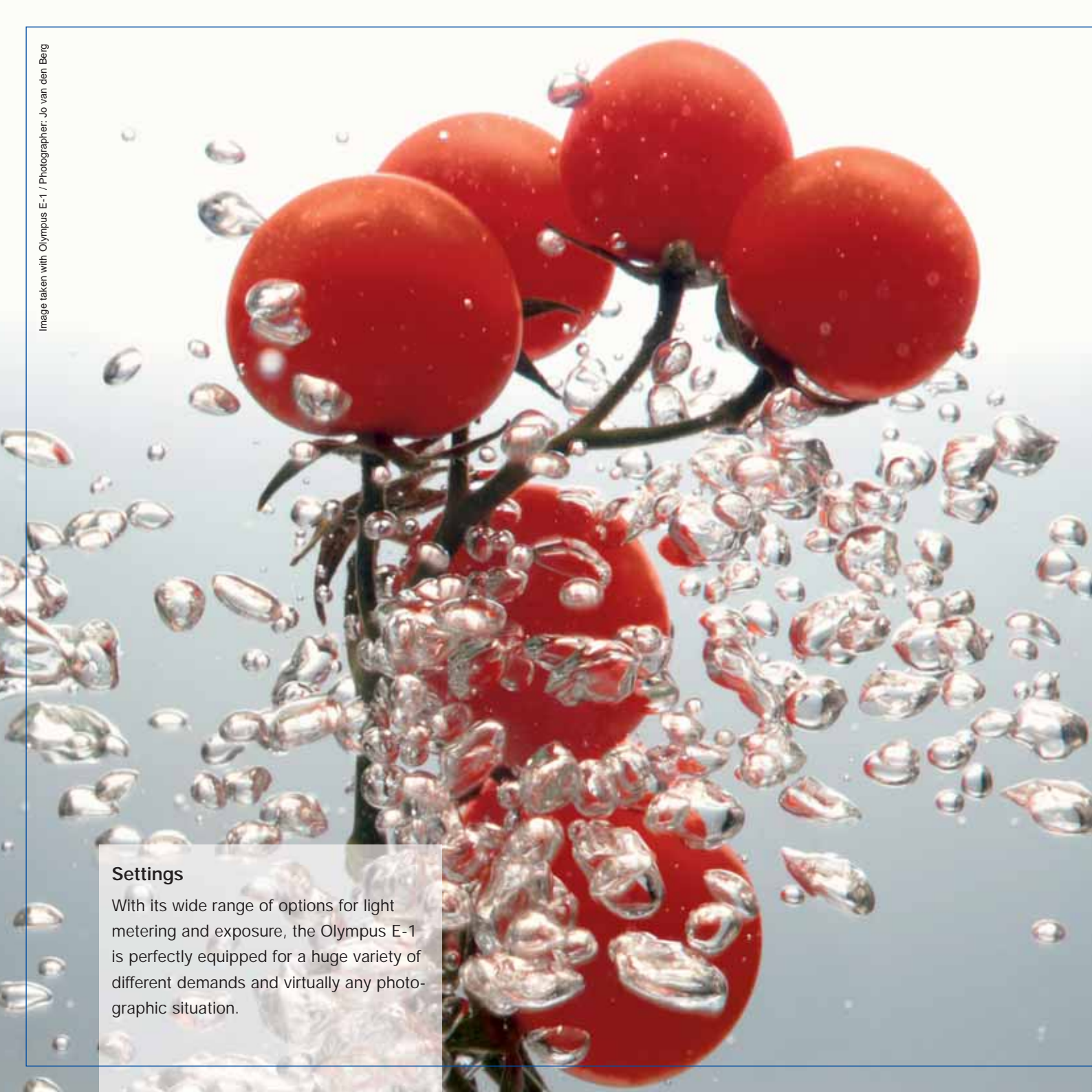
Exposure

Digital ESP (Electro-Selective Pattern) exposure metering

The camera measures the light levels in various frame areas, both in the centre of the picture and around the edges. Based on these measurements the camera is setting the optimum exposure value thus being able to take account of various scenes such as backlight. Digital ESP exposure metering is recommended for most standard situations.

Centre-weighted metering

Unlike the digital ESP mode, centre-weighted metering gives greater importance to readings from the central area. Here, the majority of exposure information comes from the central area but there are also a few readings taken from areas outside the centre to yield an averaged reading. Accordingly, this mode is recommended in order to prevent the background from affecting the exposure value.



Settings

With its wide range of options for light metering and exposure, the Olympus E-1 is perfectly equipped for a huge variety of different demands and virtually any photographic situation.

Spot metering

Spot metering involves taking readings only from the very centre of the frame, which makes up about 2% of the total frame area. This is useful when metering on a specific area of the subject.

Auto-Exposure Lock (AEL button)

The automatic exposure settings can be locked prior to release by pressing the AEL button after which reframing of the shot is possible with the fixed exposure.

Exposure compensation

Exposure compensation of +/-5 in 1/3, 1/2 or 1 EV (Exposure Value) increments is possible, permitting the fine adjustment of the exposure settings.

This adjustment continues for subsequent shots, until cancelled. The viewfinder also shows the exposure compensation information.

Bracketing

When the bracketing function is used, the camera shoots a number of pictures at different exposure settings. In situations where the correct exposure time is difficult to determine, the bracketing function supplies more than one exposure option so that the best result can be chosen later.

It is possible to shoot 3 or 5 pictures of the scene sequentially.

The bracketing function is useable in all exposure modes. In the Program mode it changes the aperture and shutter speed, while in Aperture priority or Shutter speed priority mode the pre-set values are retained and only the countervalue changes. In the Manual mode the selected aperture has priority, meaning that the shutter speed is modified.

The compensation values for the bracketing function are adjusted according to the defined exposure compensation (see above), i.e. in 1/3, 1/2 or 1 EV increments.

Working range

Thanks to the wide working range, accurate exposure readings are possible even in dark conditions such as twilight. ESP and centre-weighted metering can handle light levels between 1 EV and 20 EV, while spot metering allows light intensities ranging from 3 EV to 17 EV (50mm f2, ISO 100).

White balance

The Olympus E-1 offers a wide selection of precision white balance functions.

Automatic white balance with hybrid metering system

The camera's automatic white balance is extremely accurate thanks to a hybrid metering system. White balance readings are taken with a detecting sensor on the camera front as well as TTL (Through The Lens) using a CCD sensor. This dual system ensures high-precision measurements in almost any conditions.

12 white balance presets

Apart from the auto setting, the photographer can also select between 12 preset white balance modes. The colour temperature scale ranges from 3000 K to 7500 K.

One-touch calibration

For even more exact calibration of the white balance, the Olympus E-1 features a one touch white balance. This function is sensitive to colour temperatures from 2000 K to 10000 K and allows up to four settings to be stored in the memory.

White balance compensation

Fine-tuning is possible using the white balance compensation feature. In the automatic or pre-set modes the white balance can be adjusted by up to ± 7 steps with one step equalling 2 mired (mired = Micro Reciprocal Degree).

White balance auto bracketing feature

With this feature, taking one shot of a single scene will produce 3 images at different colour temperature settings, with a choice of $\pm 4, 8, 12$ mired steps (mired = Micro Reciprocal Degree).

Focussing precision and flexibility

For accurate focussing three separate modes are available:

- Single AF (autofocus) mode
- Continuous AF mode
- Manual focus mode

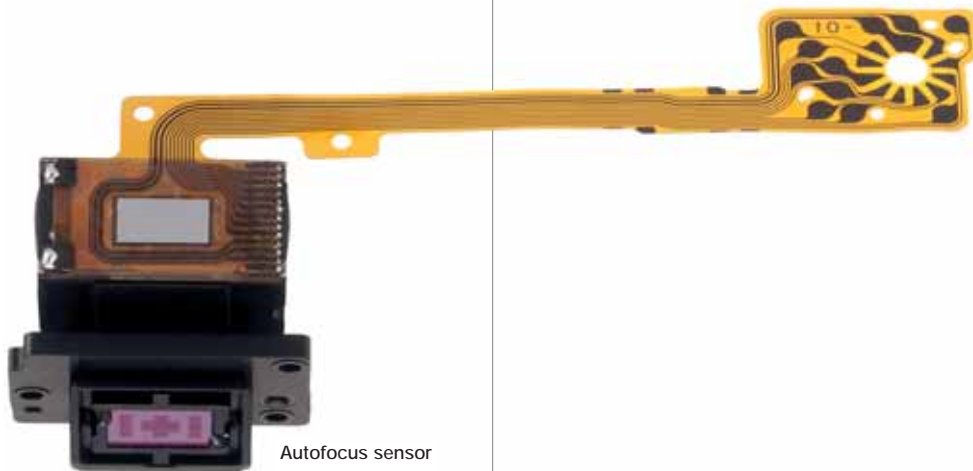
The system uses three user-selectable or automatic AF points (right, centre, left).

A perfectly adjusted AF system

The autofocus sensor features a wholly new design combining speed with accuracy.

TTL readings are taken using an optical phase difference detection system. To ensure precise processing, the signal is digitised into 16-bit data and processed by an ASIC processor. The dedicated

focussing motor in each lens delivers quick and maximum precision focussing. The focus setting can be locked by pressing the AEL button. In low contrast conditions, a 3-beam AF support lamp with integrated grid provides sufficient light to allow the focusing of objects up to 7 metres away. The AF system features a working range from 0 to 19 EV (ISO 100). With the Release Priority function activated, the camera takes the shot even if the subject is not yet in focus.



Autofocus sensor

Fast-moving subjects

To keep fast-moving subjects in focus the Olympus E-1 features a continuous AF mode with predicted autofocus whereby the focus readjusts constantly as necessary.

Manual focussing

The focus can be adjusted manually using the speed sensitive focussing ring. In manual focus mode, it is possible to perform a quick AF setting using the AEL button. In AF mode, it is also possible to override the autofocus setting and use manual focussing to make fine adjustments.



Setting and synchronising shutter speeds

The Olympus E-1's focal plane shutter allows shutter speeds ranging from 1/4000 sec. to 2 sec. in the Program

mode, and up to 60 sec. in the Aperture priority, Shutter speed priority and Manual mode. Additionally, exposures up to 8 minutes long may be taken in bulb

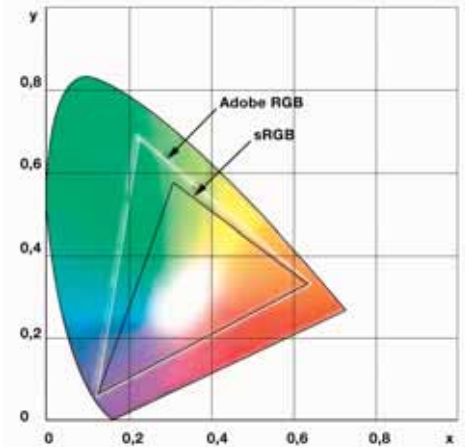


Focal plane shutter

mode. This means that the camera is equipped to handle a huge range of subjects, effects and situations. The Olympus E-1's FL-50 flash unit allows flash synchronisation at all shutter speeds right down to 1/4000 sec. Exposures can be triggered either by using the soft-touch electromagnetic release, or alternatively by the self-timer or the remote control. Using the Anti-Shock (mirror-up delay) function, the shot is delayed for between one and 30 seconds after the mirror has moved up in order to avoid any vibration.

Colour adjustment

The Olympus E-1 features numerous modes for colour adjustment of the image before taking the shot. The Colour Space feature allows the colour space to be adjusted in advance (using Adobe RGB or sRGB) to optimise the image data for use with editing devices like printers and monitors. There are also 5 colour saturation options that allow on-the-spot enhancement of colour tones (Overall, Red, Green, Blue and Skin tone emphasis).



Colour space: sRGB/Adobe RGB

Noise management

The Olympus E-1 has two different image noise reduction modes.

Noise Reduction

Particularly with long exposure shots (>2s) image noise can occur in the form of a specific fixed pattern of colour pixels. The Noise Reduction mode allows a significant reduction of this type of noise.

It works by taking two images: a normal shot and another one with the same exposure settings but with the shutter closed. The noise is then detected in the "dark" image and computed out of the complete image file.

Noise filter

Random pattern noise can occur, for example, when selecting a high ISO setting and may also appear in dark areas of a photo. After precisely analysing and processing the image information, the noise filter function reduces this image noise by smoothing the contours of the objects in the photo. This procedure is particularly beneficial in low contrast areas of the shot, such as blue sky or human skin.

ISO sensitivity

The camera's light sensitivity can be manually adjusted to 100, 200, 400 or 800 ISO, and the boost option permits an increase in the sensitivity to even 1600 or 3200 ISO.

In the automatic ISO adjustment mode, the camera selects within a range from 100 to 400 ISO.

Sharpness and contrast

The Olympus E-1 gives the choice between high and low sharpness settings. High is the best choice for images intended for print, while the low setting is ideal for displaying on a monitor or for digital image editing.

The contrast adjustment mode enables to optimise the image further or to make individual alterations.

Flash control

The Olympus E-1 permits precise control over the full range of dedicated flash units available and also supports direct TTL metering. Light intensity can be adjusted by +/- 2 stops in increments of 1/3, 1/2 or 1 stop.

The Olympus E-1's high-speed synchronisation in combination with the FL-50 flash unit allows taking pictures over the entire shutter speed range, right down to 1/4000s.

This feature is known as Olympus-specific Super FP mode.



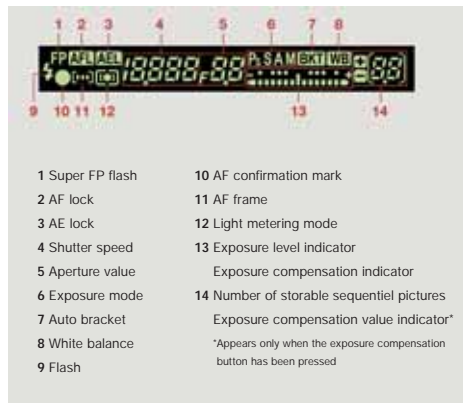
Options for framing and checking images

The Olympus E-1 is equipped with a high-quality optical viewfinder for framing the desired shot, and also has a large, bright LCD monitor for immediately displaying and checking the stored images.

Perfect view-finding

The Olympus E-1 camera is one of the few digital SLRs whose high-quality pentaprism viewfinder displays almost 100% of the field of view. The magnification value of the viewfinder is 0,96 at a 50mm focal length. The 20mm eyepoint means that the camera can be handled comfortably even by users wearing glasses, and it also features dioptre correction between - 3.0 and +1.0.

Details in the viewfinder



All important camera settings are displayed in the viewfinder. By pressing the preview button on the front of the camera, it is also possible to preview the depth of field at the shooting aperture in the viewfinder plus the settings selected.

Colour TFT LCD

The 1.8 inch/4.5 cm TFT LCD display shows virtually 100% of the shot taken. The 134,000 pixel screen features low-reflection technology and 7-step brightness adjustment. A detachable monitor cover (MC-1) protects the screen.

Versatile playback features

Parallel data processing by the three ASIC processors means that the images appear on the LCD within seconds.

With the histogram function an image's exposure can be checked, and a high point warning indicates when certain areas in the frame appear too bright. To compare the exposure settings for several images, detailed image information, such as exposure or white balance, can be displayed along with the shots. Images taken with the camera held vertically are easy to rotate.

Other features include:

- 4, 9 or 16 thumbnails
- Single image zoom function

- Slide show mode
- Print pre-selection, allowing shots to be stored with special image information for printers or photo labs that support DPOF (Digital Print Order Format).

Recording modes

The Olympus E-1 supports the uncompressed TIFF format plus a variety of JPEG compression rates (SHQ, HQ) and resolution (SQ), and can also take pictures in a 12-bit RAW format. If desired, these RAW files can be converted later on into TIFFs or JPEGs using the camera's internal RAW data processing function. The Olympus E-1 can also be set to store each image taken, in both RAW and JPEG formats simultaneously.

Recording media

The Olympus E-1 is designed to use CompactFlash cards (Types I and II) and is also compatible with Microdrive*. xD-Picture Cards can also be used with a CompactFlash card adapter.

* registered trademark of IBM

Customised settings

The Olympus E-1 offers a wide selection of customisable camera settings and functions allowing the user to tailor the operation to suit his personal preferences. For instance, the photographer can assign special options such as program shift, exposure compensation, aperture and shutter speed to the main and/or sub dial for each of the P, A and S modes, as well as special functions may be allocated to the AEL button. Among many other customisable settings the photographer can also determine how he would like the lens to adjust to the focusing point by setting the rotational direction of the focus ring accordingly.

Durability

The Olympus E-1 and the ZUIKO DIGITAL lenses are protected from water splashes and dust. The body is made from a magnesium alloy, which not only makes the camera extremely tough but also very light. The camera's extremely durable vertical-travel metal focal-plane shutter has proved to be reliable under Olympus standard testing conditions at over 150,000 releases thus standing up to the heaviest professional usage.



Sealings (shown in red)



Magnesium alloy body

Pixel mapping

Pixel mapping can prevent faulty sensor elements from affecting image quality. When the pixel mapping option is selected via the menu, the camera checks the functionality of every single sensor element by comparing each element's response with those of the neighbouring ones, allowing any defects to be detected. The location of the faulty element is stored in the memory and the camera automatically compensates for the missing or faulty information in subsequent exposures. The Supersonic Wave Filter is running before whenever the pixel mapping function is activated.

Data transfer to computers

The Olympus E-1 is equipped with two high-speed interfaces: IEEE 1394 (compatible with FireWire) and USB 2.0. There is also a PAL/NTSC compatible video output.

Software

Depending on the individual needs of the photographer and the type of onward editing required, the following software packages are available:

Olympus Viewer

The new professional software for image management and RAW file editing is supplied as standard with the Olympus E-1.

Olympus Studio 1.0

This software includes the functionality of the Olympus Viewer software plus many other useful software functions. These range from comprehensive image editing functions to high-speed RAW file editing plus a capture software which allows full camera control and image recording from the computer (for Windows or Mac). The Olympus Studio software is available as an option, but a 30-day trial version is included with the Olympus E-1 package.

Service and support

For purchasers of the Olympus E-System a special highly efficient service and support organisation has been set up to deal with queries and problems swiftly and efficiently.

Purchasers of an Olympus E-1 Digital SLR camera also have a choice of various service and support programmes depending on the individual needs:

- Olympus E-Club: Olympus E-Club members will receive regular information about new products and updates.
- Olympus E-Professional: this programme offers extensive additional service and support features.
- Olympus E-Master: a service and support programme specially designed for professional photographers, including services such as priority repair, free camera check-ups and technical support at selected events.

For further information on the individual programmes: www.olympus-pro.com

Specifications Olympus E-1

Model	Olympus E-1
Type	Interchangeable digital SLR camera
Compatible lens	ZUIKO Digital, Four Thirds System lens
Lens mount	FourThirds mount
Body	Magnesium alloy
Media	Compact Flash card (Type I and II), MicroDrive
Effective pixel number	5 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	5.50 million pixels
Aspect ratio	4:3
Filter array	Primary colour filter (RGB)
Filter	
LPF	Fixed type
Dust protect filter	Supersonic Wave Filter
Viewfinder	
Type	Optical-type, eye-level pentaprism viewfinder
Field of view	Approx. 100%
Magnification	Approx. 0.96x with a 50mm lens set to infinity at -1 diopter
Eye point	20mm
Diopter adjustment	Built-in type -3.0 to +1.0 diopter
Focusing screen	Interchangeable type. FS-1 screen supplied with body
Mirror	Quick return mirror
Viewfinder information	AF frame, AF lock, AF correction mark, Metering mode, Exposure mode, Shutter speed, Aperture value, AE lock, Auto bracket, White balance, Exposure level indicator, Exposure compensation indicator, Exposure compensation value indication, Flash, FP flash, Number of storable sequential pictures
Depth of field preview	Preview button
Eye cup	Interchangeable, 2 types possible, EP-1 supplied with body
Eye piece shutter	Built-in

Autofocus	
Type	TTL phase difference detection system
Focus modes	Single AF, continuous AF and manual focus
Detection range	EV 0 to 19 (ISO 100)
Focus areas	3 points
Focus area selection	Automatic and manual selection
AF assist lamp	Built-in. Also built-in to optional Olympus dedicated flashes
AF lock	Locked by first position of shutter release or AEL button (customisable)
Exposure control	
Light metering system	TTL full-aperture light metering with 3-zone 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	Program with program shift, Shutter Priority, Aperture Priority, Manual
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 AEL button (customisable)
Exposure bracketing	3 or 5 frames in +/- 1, 1/2, or 1/3 EV steps
Sensitivity	
Auto	ISO 100 to 400
Manual	ISO 100/200/400/800. Expandable to 1600/3200
Shutter	
Type	Electronically controlled focal plane shutter
Shutter speed	P: 1/4000 – 2 sec. A, S: 1/4000 – 60 sec. M: 1/4000 – 60 sec. and bulb (up to 8 min.)
X-sync speed	X = 1/180 sec. Super FP up to 1/4000 sec. for fill-in flash
Shutter release	Soft-touch electromagnetic release
Self-timer	12 or 2 sec.
Remote control	Wireless remote control with RM-1. Wired remote control with RM-CB1
Drive system	
Drive modes	Single and sequential shooting
Sequential shooting speed	3.0 fps.
Max. frame number on sequential shooting	12 frames (TIFF, JPEG, RAW, RAW + JPEG)

White balance system	
Auto WB system	Hybrid detection system using white balance sensor and CCD imager
Preset WB	12 types (3000K / 3300K / 3600K / 3900K / 4000K / 4300K / 4500K / 4800K / 5500K / 6500K / 6600K / 7500K)
Custom mode	4 custom settings by One Touch WB
WB compensation	Up to +/- 7 steps in 2 mired steps for both auto and preset white balance setting
WB bracketing	3 frames with +/- 4/8/12 mired steps
Colour space	sRGB/AdobeRGB
Colour saturation	5 levels and 4 kinds
Sharpness	7 levels
Contrast	5 levels
Flash control	
Type	TTL auto FP, TTL auto for Olympus dedicated flash, auto or manual
Synchronisation modes	Auto, Red-eye Reduction, Slow Synchro, 2nd Curtain Slow Synchro, Fill-in for exclusive flash
Intensity control	Up to +/- 2 EV in each 1, 1/2, or 1/3 EV steps for exclusive flash
Synchro socket	Yes (X-Sync Socket type)
Control panel information	Flash mode, Metering mode, Focus mode, Record mode, Aperture value, Shutter speed, Battery check, Number of storable still pictures, Image quality adjustment, ISO, Colour space, White balance, Remote control, Self-timer, Exposure level indicator, Exposure compensation indicator, AF frame, Number of storable sequential pictures, Exposure compensation value indication, Auto bracket, Noise reduction, Single-frame shooting/Sequential shooting
Playback monitor	
Type	Low temperature poly silicon TFT colour LCD
Size	1.8 inch/4.6 cm
Pixel number	134,000 pixels
Field of view	Approx. 100%
Brightness control	+/- 7 steps
Protection cover	Detachable. MC-1 cover supplied
Playback functions	
Display mode	Single, zoom (2, 3 and 4x), index (4, 9, 16 frames), slide show
Information	Exposure Mode, Metering Mode, Shutter Speed, F-Stop, Compensation level, ISO, Colour Space, WB Mode, Focal Length, Focus Area, File Type, Contrast Level, Sharpness Level
Exposure level view	Histogram, highlight point warning
Video signal output	NTSC or PAL selectable
Erase / protect function	
Erase modes	Single, all, selected
Image protect mode	Single

Recording system	
Type of recording format	DCF, DPOF compatible, EXIF 2.2 compatible, PRINT Image Matching II compatible.
Type of file format	JPEG, TIFF (RGB 8 bit), RAW (12 bit).
RAW + JPEG recording	Yes
File size	RAW 2560 x 1920 uncompressed approx. 10 MB
	TIFF 2560 x 1920 uncompressed approx. 15 MB
	SHQ 2560 x 1920 1/2.7 approx. 3.8 MB
	HQ 2560 x 1920 1/8 approx. 1.2 MB
	SQ 1600 x 1200 1/2.7 approx. 1.4 MB
	1/8 approx. 0.5 MB
	1280 x 960 1/2.7 approx. 0.9 MB
	1/8 approx. 0.3 MB
	1024 x 768 1/2.7 approx. 0.6 MB
	1/8 approx. 0.2 MB
640 x 480 1/2.7 approx. 0.3 MB	
1/8 approx. 0.1 MB	
Menu	
Information	REC, playback, custom, setup
Languages	English, German, French, Spanish, Japanese, and Korean (English set as default).
Customising	
Custom reset	4 types
PC interface	
	IEEE 1394, USB 2.0
Power supply	
Battery	Rechargeable Li-ion battery pack BLM-1. BLL-1 (optional: power battery holder SHLD-2)
AC adapter	Optional AC adapter. AC-1: AC 100V – 240V, 50 – 60Hz; DC 9V
Size / weight	
Dimensions	141 x 104 x 81 mm (W x H x D)
Weight	660g (without batteries and CF card).
Environment	
Splash proof	Yes
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	
	Olympus E-1 body, USB cable, IEEE 1394 cable, video cable, Li-ion battery pack (BLM-1), Li-ion battery charger (BCM-1), shoulder strap, Olympus Viewer 1.0, CD-ROM, manuals, warranty card.

Specifications and design are subject to change without notice.

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Specifications and appearances are subject to change without any notice or obligation on the part of the manufacturer.



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