

## Details for E-410



- Light and compact with Live View
- 10 Megapixel Live MOS sensor
- New image processing engine
- Hi-Speed USB 2.0
- 2.5"/6.4cm HyperCrystal LCD
- Supersonic Wave Filter for dust reduction
- Dual memory card slots (for xD-Picture Card and CompactFlash)
- 32 shooting modes (incl. 5 exposure, 7 creative & 20 scene modes)
- Built-in pop-up flash (GN 12)
- 3fps with up to 8 images in RAW buffer
- One touch white balance
- AF-lock functionality
- Depth of field preview function
- 49 segment digital ESP
- Exposure bracketing function
- Beginners' and advanced info screen
- Detailed playback info screen with histogram
- Based on Four Thirds Standard
- Optional Underwater Case (PT-E03) available

**Big things come in small packages - The Olympus E-410: The incredibly compact and lightweight D-SLR with Live View capability**

Extraordinary compactness, leading-edge technology and brilliant performance distinguish the new Olympus E-410 from the rest. This successor to the E-400 is one of the world's most compact D-SLRs with Live Preview. Photographers benefit from exceptional mobility and are not limited to only looking through the viewfinder when framing compositions – as is the case in most D-SLRs – but can also frame their subject directly on the large 2.5"/6.4cm HyperCrystal LCD. Thanks to compatibility with the Four Thirds Standard, a supreme selection of lenses and other accessories is at the disposal of users to extend the potential areas of application. Meanwhile, a new, professional-grade Live MOS sensor ensures 10 Megapixels of high-definition image recording under all conditions. Also new is the image processing engine which features excellent noise performance. It dramatically boosts shooting results and further perfects quality. And naturally, as with all E-System cameras from the inventor of dust-free D-SLR photography, the Olympus E-410 incorporates the patented Supersonic Wave Filter. This ensures that users never need to worry about the harmful effects dust can have on their images.

#### **Exceptional compactness and cutting-edge technology**

One of the smallest and lightest D-SLRs with Live View in the world, the E-410 gives photographers a decisive advantage. Matched with a range of ultra-compact lenses, this camera allows for virtually unimpeded mobility. It is therefore ideal for taking along on trips, holidays, photo assignments or, for that matter, to just about any shooting situation where a large, bulky camera set-up might compromise the photo opportunities.

The Live View function is available for shots with both auto focus (AF) and manual focusing (MF), allowing scenes being framed to be viewed directly on the 2.5"/6.4cm HyperCrystal LCD. The AF function is enabled by simply pressing the AEL/AFL button, which prompts the mirror to fold down momentarily and then quickly pop back up again once the AF measurement has been made. The MF option, meanwhile, allows for superior focusing accuracy as images on the LCD can be enlarged by 7x or 10x. It is therefore ideally suited for macro shooting.

In the development of this camera, particular emphasis was placed on boosting performance and further reducing image noise. By incorporating a new image processing engine and sensor, this latest Olympus model produces sensationally clear 10 Megapixel results with accurate colour reproduction, and can boast faster processing speeds as well as low power consumption: Sequential shooting at up to 3fps with a 8 image RAW buffer in burst mode is possible.

#### **Superior handling**

It meets just about every professional demand, yet the E-410 proves that high performance needn't mean difficult operation. In addition to offering an abundance of

adjustable exposure options, including full manual control for unlimited creative freedom, 32 consumer-friendly shooting modes are on board for ease-of-use in all manner of situations. These range from Portrait and Macro to Underwater Wide, Underwater Macro and xD Panorama. Meanwhile, photographers can make use of various colour modes and Black&White filters. What's more, Live View functionality allows users to preview and manage tedious adjustments such as exposure and WB compensation right on the LCD – so photographers can revel in the unique comfort and control this added convenience affords them.

Users have a choice of data storage options: Both CompactFlash and xD-Picture Cards can be used with the E-410, which allows even those upgrading from Olympus compact cameras to continue using their existing cards. And to ensure accessibility across the entire European continent, ten languages are on board and a further 15 can be downloaded if desired.

With the intuitive placement of buttons and controls, photographers will feel at home with the E-410 in no time. Info screens can be selected to show full advanced information or just the basics, making it very user-friendly, even for beginners. And ensuring quick data transfer between camera and computer, Hi-Speed USB is supported with up to 480 MBit/s.

#### **Wide range of accessories**

Users benefit from nearly boundless versatility when choosing accessories for their E-410 thanks to compatibility with the Four Thirds System. This standard is supported by a growing number of companies and ensures full cross-manufacturer compatibility of lenses. In addition, almost the complete line-up of E-System accessories can be used with this model. This includes first-class, near telecentric lenses that cover the full scope of focal ranges from fisheye to ultrazoom. Since Four Thirds Standard lenses are built specifically for the rigorous demands of digital photography, they can achieve higher-aperture shots without being as big and bulky as their non-Four Thirds counterparts. The E-410 also comes equipped with a long-lasting rechargeable battery that will ensure power requirements are met – even if the shoot goes into overtime. And for capturing beautiful motifs up to 40m below the water's surface, the Underwater Case PT-E03 is available. When it comes to those underwater shots, count on bright Live View to make the experience even more rewarding: Get a better and more accurate view of compositions before you shoot them – and take the guesswork out of D-SLR underwater photography.

As one of the world's most compact D-SLRs with Live View capability, the E-410 boasts two very convincing arguments. Matched with a high-performance image sensor and a fast new image engine featuring outstanding noise characteristics, ambitious photographers can look forward to superior picture quality and excellent handling that exceeds expectations – while retaining amazing mobility. This intriguing member of the E-System family will be available from June 2007. N3126792

## Specifications for E-410



### Type

Lens mount	Four Thirds
Body material	Glass reinforced plastics

### Control Panel Information

Displayed information	
Metering mode	Yes
Exposure mode	Yes
Aperture value	Yes
Shutter speed	Yes
Exposure level view	Yes
Flash compensation value	Yes
Exposure compensation indication	Yes
AE bracketing	Yes
ISO	Yes
Colour space	Yes
Picture mode	Yes
Gradation	Yes
Colour saturation compensation value	Yes
Sharpness compensation	Yes

value	
Contrast compensation	Yes
value	
White balance	Yes
White balance compensation value	Yes
Noise reduction	Yes
	Yes
Flash mode	Yes
Focus mode	Yes
AF frame	Yes
Drive mode	Yes
Record mode	Yes
Number of storable frames	Yes
Memory card	Yes
Battery indicator	Yes

### Image Sensor

Effective pixels	10 Megapixels
Filter array	Primary colour filter (RGB)
Full resolution	10.9 Megapixels
Type	4/3 " Live MOS sensor
Aspect ratio & area	4:3 / 17.3 x 13.0 mm

### Engine

Type	TruePic III
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### Filter

LPF filter	Fixed type
IR cut filter	Hybrid type
Dust protection filter	Supersonic Wave Filter

### LCD

Pixel number	230000 pixels
LCD type	HyperCrystal LCD
Monitor size	6.4 cm / 2.5 "
Brightness adjustment	+/- 7 steps

### Viewfinder

Viewfinder type	Eye-level single-lens view finder
Field of view	Approx. 95 %
Magnification	Approx. 0.92 x
Depth of field preview	Yes
Eye point	14 mm
Diopter adjustment	-3.0 - +1.0 diopter / built-in type
Focusing screen	Fixed type (Neo Lumi-Micron Mat Screen)
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
Eye piece shutter	Eye-piece cap EP-4 supplied

### Live View

Information	100% field of view, exposure adjustment view, white balance adjustment view, gridline displayable, 7x/10x magnification possible, MF/S-AF, AF frame display, AF point display, shooting information, histogramme
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### Focusing System

Method	TTL phase difference detection system
Focus areas	3 points / Automatic and manual selection
AF illuminator	Built-in flash (external flash available)
AF lock	Locked by first position of shutter release button, AE/AF lock button (customised)
Focus tracking	Available in continuous AF mode
Manual focus	Available by rotating focus ring, available for setting manual focus operation in AF mode (customised)
Single AF	Yes
Single AF + MF	Yes
Continuous AF	Yes
Continuous AF + MF	Yes
Detection range	0 - 19 EV (ISO 100)

### Light Metering

Method	TTL open aperture light metering
Zones	49 zones Multi-pattern Sensing System
Detection range	1 - 20 (50mm, 1:2, ISO 100)
ESP light metering	Yes
Spot metering	Yes
Centre weighted metering	Yes
Highlight	Yes
Shadow	Yes

### Exposure Modes

Auto	Yes
Programme automatic	Yes
Aperture priority	Yes
Shutter priority	Yes

Manual	Yes
Scene Modes	Yes

### Scene Modes

Number of scene modes	20
Portrait	Yes
Landscape	Yes
Landscape with Portrait	Yes
Night Scene	Yes
Night Scene with portrait	Yes
Children	Yes
Sports	Yes
High key	Yes
Low key	Yes
Image Stabilisation Mode	Yes
Macro	Yes
Nature Macro	Yes
Candle	Yes
Sunset	Yes
Fireworks	Yes
Documents	Yes
Beach and Snow	Yes
Underwater Wide	Yes
Underwater Macro	Yes
Panorama	Yes

### Exposure System

Exposure compensation	+/- 5 EV / 1/3 steps
Exposure bracketing	3 frames / +/- 1/3, 2/3, 1 EV steps

### Sensitivity

Auto	ISO 100 - 400
Manual	ISO 100 - 1600 (in each 1 EV steps possible).

### Shutter

Shutter type	Electronically controlled focal plane shutter
Shutter release	Soft Touch Electromagnetic
Self timer	2 s or 12 s

### Shutter Speeds

Shutter speed range	1/4000-60 s
Shutter speed P, Ps	1/4000-60 s
Shutter speed A priority	1/4000-2 s
Shutter speed S priority	1/4000-60 s
Shutter speed Manual	1/4000-60 s
Shutter speed scene mode	1/4000-4 s

## White Balance

AUTO WB system	Advanced detection system with Live MOS sensor
Manual White balance (One-Touch)	Yes
Selectable steps in Kelvin	7 steps (3000 - 7500 K)
Overcast	Yes
Shade	Yes
Tungsten	Yes
Sunlight	Yes
Flourescent 1	Yes
Flourescent 2	Yes
Flourescent 3	Yes
White balance adjustment	Yes +/- 7 in each R-B / G-M axis (in Auto WB and preset WB mode)

## Internal Flash

Guide number	12
AUTO	Yes
Red-eye reduction	Yes
Slow synchronization	Yes
Slow synchronization 2nd curtain	Yes
Fill-in	Yes
Slow synchronization with red-eye reduction	Yes
Off	Yes
Flash compensation	+/- 2 EV / 1/3 EV steps

## External Flash Control

X-sync speed	1/180 s / 1/4000 s (Super FP Mode)
Type	TTL Auto for Olympus dedicated flash, Auto or Manual
Synchronisation modes	Auto, Manual, Red-eye reduction, Slow syncro with red-eye reduction, Slow syncro, 2nd curtain and slow syncro, Fill-in for exclusive flash
Intensity	+/- 2 EV / 1/3 steps

## Sequence Shooting

Sequential shooting mode	3 fps / Up to card capacity in HQ 3 fps / 8 frames RAW
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## Image Processing

Colour space	sRGB / AdobeRGB
TruePic TURBO	Yes

Sharpness + Contrast	5 levels
Saturation	5 levels
Contrast	5 levels
Black & White filter	Yellow, Orange, Red, Green
Black & White toning	Sepia, Blue, Purple or Green in Black & White mode
Picture mode	Vivid, Natural, Muted, Black & White, White.
Gradation	3 (high key, normal, low key)

### Image Editing

RAW data edit	Yes
Red-eye reduction	Yes
Sepia	Yes
Black & White	Yes
Resize	Yes
Correction of saturation	Yes

### Erase / Protect / Copy Function

Erase modes	Single, All, Selected
Image protect mode	Single, Selected
Copy mode	Single, All, Selected

### View Images

Histogram in playback mode	Yes
Zoom	2-14 x
Index	4, 9, 16, 25 frames
Slide show	Yes
Calendar	Yes
Shooting information	Exposure mode, metering mode, shutter speed, aperture value, exposure compensation level, ISO, colour space, white balance mode, white balance compensation level, focal length, focus area, file type, picture mode, file name, image size, recorded card type.
Exposure level view	Histogram (R,G,B available), High light point warning, Shadow point warning.

### Still Image Recording

EXIF	2.2
PIM	III
DPOF	Yes
DCF	Yes

## Recording Formats

RAW	12 bit
RAW & JPEG	Parallel recording
JPEG	Yes
JPEG compression	1/2.7 SHQ 1/8 HQ 1/2.7, 1/4, 1/8, 1/12 SQ

## Image Size

RAW	3648 x 2736 12 MB / frame
SHQ	3648 x 2736
HQ	3648 x 2736
SQ	3200 x 2400 2560 x 1920 1600 x 1200 1280 x 960 1024 x 768 640 x 480

## Interface

Media	Dual slot for CompactFlash card (Type I and II), Microdrive and xD picture card
USB 2.0 HI-speed	Yes
Combined V & USB output	NTSC or PAL selectable

## Menu

Menu languages in camera	English, German, French, Spanish, Italian, Russian, Czech, Dutch, Danish, Polish
Menu languages by download	Additional one language from 15 further languages by download via the internet.

## Customisation Options

Left arrow button	Off, one-touch WB, test picture, preview, Live View
Custom preset options	2

## Environment

Temperature	0 - 40 °C operating temperature -20 - 60 °C storage temperature
	30 - 90 % operation humidity 10 - 90 % storage humidity

## Size

Dimensions (WxHxD)	129.5 x 91 x 53 mm (without protrusions)
Weight	375 g (body only)

\* Specifications and design are subject to change without notice. Battery life varies greatly according to type of batteries used and the conditions of use. Above information is based on Olympus standard testing procedure.

## Box Contents for E-410



### E-410 Body:

- BLS-1 rechargeable lithium-Ion battery
- BCS-1 battery charger
- EP-4 eyepiece cover
- Shoulder Strap
- USB Cable
- Video cable
- Olympus Master 2.0 (Software CD-ROM)
- Basic Manual
- Advanced Manual (CD-ROM)
- Warranty Card

### E-410 Kit:

- E-410 Body
- ED 14-42mm 1:3.5-5.6 lens

### E-410 SE Kit:

- E-410 Body
- ED 17.5-45mm 1:3.5-5.6 lens

### E-410 Double Zoom Kit:

- E-410 Body
- ED 14-42mm 1:3.5-5.6 lens
- ED 40-150mm 1:4.0-5.6 lens