

PENTAX▶ **Optio E90**

SOFT TOUCH AND SIMPLE-OPERATION

- * **10.1 Megapixel** CCD sensor
- * **3x** optical zoom (equ. to **32-96mm** in 35mm format)
- * Rubber coated body for a **smooth touch**
- * **2.7"** LCD monitor, 230 000 dots
- * Face recognition, Smile capture and Blink detection modes
- * Sensitivity up to ISO 1600
- * Powered by AA batteries
- * VGA movie (640 x 480 px)



OPTIO E90	Wine red	17916
Barcode		0027075156937

OPTIO E90	Black	17911
Barcode		0027075156883

Dimensions	9.2 x 6.0 x 2.8 cm
Weight (unloaded)	122 g

SUPPLIED ACCESSORIES

	Art No.
USB cable I—USB98	39828
2 AA alkaline batteries	39916
Strap O-ST86	39815
Software S-SW104	39856

OPTIONAL ACCESSORIES

	Art No.
Neoprene case	50159
Sport strap O-ST81	39457
Leather strap O-ST24	39263
AC adapter kit K-AC62E	39602



Neoprene case



Sport strap



Leather strap



AC adapter kit

▶ Optio E90 TECHNICAL SPECIFICATIONS

CCD SENSOR

Number of pixels	Approx. 10.1 megapixels - effective
Sensor size	1/2.3" CCD
Colour depth	12 bits x 3 colours
Image size	10M (3648x2736), 7M (3072x2304), 5M (2592x1944), 3M (2048x1536), 2.1M (16:9) (1920x1080), 1024 (1024x768), 640 (640x480 pixels)
Sensitivity	ISO auto, 100, 200, 400, 800, 1600

LENS

Focal length	PENTAX 5.7 - 17.1mm, equ. to 32-96mm in 35mm
Aperture	f/2.9 - 5.2
Construction	7 elements in 6 groups (3 aspherical elements)
Optical zoom	3x
Digital zoom	Approx. 5.7x
Intelligent zoom	Approx. 3.6x at 7M, approx. 17.1x at 640 (including optical zoom)

LCD SCREEN

Type	2.7" (6.86 cm) colour LCD, approx. 230k dots
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FILE FORMATS

Photo format	JPEG (Exif 2.2), DCF 2.0, DPOF, PRINT Image Matching III
Video format	AVI (Motion JPEG)

MEMORY

External memory	Compatible with SD and SDHC cards
Internal memory	approx. 6 MB

FOCUSING

Autofocus	TTL Contrast detection Autofocus system
Focus options	Infinity-landscape, Pan focus
AF points	Multi-AF 3 points zone, Spot AF, Auto-tracking AF (anticipating moving subject)
Normal	0.5m - infinity (at wide setting), 0.5m - infinity (at tele setting)
Macro	0.1m - 0.6m (at wide setting), 0.35 m - 0.6m (at tele setting)

EXPOSURE CONTROL

TTL Metering modes	Multi-segment metering
System	Program controlled electronic auto exposure with electronic shutter with CCD
Shutter speeds	1/2000 - 1/4 sec. 4 sec max. (Night Scene mode)
Sensitivity range	Auto, Fixed (ISO 100-1600)
Scene modes	Auto Picture, Program, Night Scene, Night Scene Portrait, Half-length Portrait, Movie, Landscape, Flower, Portrait, Surf & Snow, Sport, Digital SR, Kids, Pet, Food, Natural Skin Tone, Candlelight, Digital Panorama, Frame composite, Sunset, Green
Exposure compensation	± 2EV (1/3EV steps)

FLASH

Built-in flash	Integrated auto flash control
System	Automatic activation in low light conditions
Flash modes	Flash-on and Flash-off modes. Soft flash
Other	"Red-eye" reduction function
Flash range	Wide: approx. 0.1 - 5.4m (ISO Auto) Tele: approx. 0.35 - 3.0m (ISO Auto)

VIDEO

Sound	Yes
Movie	"Shake reduction" - stabilized video
Duration	Depends on memory card capacity
Resolution	VGA (640x480) 30fps ; QVGA (320x240), 30 fps

POWER SUPPLY

Battery	2 AA batteries (Alkaline, Lithium, Nickel or re-chargeable Ni-MH)
Capacity	Approx. 220 shots and 400 min in play mode with Alkaline batteries ; approx. 600 shots and 800 min in play mode with Lithium batteries
Other sources	Optional AC adapter

INTERFACES

Video output	PC / AV terminal (PAL/NTSC, mono)
USB	USB and AC power input

RECORDING PARAMETERS

Drive modes	One shot, Self-timer (2 or 10 sec), Continuous shooting (approx. 1 fps), Multi-Burst (takes 16 VGA-size pictures at approx. 7 fps and creates a contact sheet)
White balance	Auto

OTHER FEATURES

World time	75 cities, 28 time zones
Languages	English, French, German, Spanish, Portuguese, Italian, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Thai, Korean, Simplified Chinese, Traditional Chinese
Digital filters	B&W, Sepia, Colours (6), Fisheye, Starburst, Brightness
Others	Digital Shake Reduction. Noise reduction if shutter speed exceeds 0.25 sec., Face recogni- tion (detects up to 10 faces), Smile capture (smile detection and auto-picture), Slideshow, Calendar, Resize, Cropping, Image copy, Image rotation, Frame composite, Red-eye compensa- tion, Protect, DPOF, Image recovery, Date prin- ting, Face close up playback

DIMENSIONS AND WEIGHT

Dimensions	92.5 × 60 × 28 mm
Weight	122 g unloaded, 170 g loaded and ready

SYSTEM REQUIREMENTS

Operating systems	PC: Windows XP SP2 , Vista™ and 7 Mac: OS X 10.3.9 or above
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SOFTWARE

Arcsoft Media Impression 2.0 for PENTAX