

PENTAX

▶ Optio M90

DIGITAL COMPACT



SMART AND EFFICIENT

- * **12.1 Megapixel** CCD sensor
- * **Wide angle 5x optical zoom** (equ. to **28-140mm** in 35mm)
- * **2.7" LCD** monitor, 230 000 dots
- * Rubber coated body for a **smooth touch**
- * Li-ion rechargeable battery
- * Face recognition, Smile capture and Blink detection modes
- * Video recording in VGA format (640 x 480 px, **30 fps**)
- * Sensitivity up to ISO 1600



OPTIO M90	Wine red	17912
Barcode		0027075156890
OPTIO M90	Black	17902
Barcode		0027075156500
Dimensions		9.9 x 5.8 x 2.3cm
Weight (unloaded)		116g
Country of origin (camera)		China

SUPPLIED ACCESSORIES

	Art No.
USB/AV cable I—UAV86	39814
Battery charger kit D-BC108E	39077
Li-ion rechargeable battery D-LI108	39071
Strap O-ST86	39815
Software S-SW108	39095

OPTIONAL ACCESSORIES

	Art No.
Neoprene case	50159
Neoprene case	50192
Sport strap O-ST81	39457
Leather strap O-ST24	39263



Neoprene case



Neoprene case



Sport strap



Leather strap

▶ Optio M90 TECHNICAL SPECIFICATIONS

CCD SENSOR

Number of pixels	Approx. 12.1 megapixels - effective
Sensor size	1/2.3" CCD
Colour depth	12 bits x 3 colours
Image size	12M (4:3) (4000x3000), 10.7M (3:2) (4000x2664), 9M (16:9) (4000x1944), 8M (3264x2448), 5M (2576x1932), 3M (2048x1536), 2M (1600x1200), 640 (640x480 pixels)
Sensitivity	ISO auto, 80, 100, 200, 400, 800, 1600

LENS

Focal length	PENTAX 5.1 - 25.3mm, equ. to 28-140mm in 35mm
Aperture	f/3.5 - 5.9
Construction	7 elements in 6 groups (3 aspherical elements)
Optical zoom	5x
Digital zoom	Approx. 5.0x

LCD SCREEN

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

Photo format	JPEG (Exif 2.21), DCF (Exif 2.21), DPOF
Video format	AVI (Motion JPEG)
Sound format	WAV (PCM), mono

MEMORY

External memory	Compatible with SD and SDHC cards
Internal memory	approx. 32MB

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), 1m - infinity (at tele setting)
Macro	0.1m - 0.8m (at wide setting), 1m - 2.1m (at tele setting)

EXPOSURE CONTROL

TTL Metering modes	Multi-segment metering
System	Program controlled electronic auto exposure with electronic shutter with CCD
Shutter speeds	1/1000 - 1/8 sec. 2 sec max. (Night Scene mode)
Sensitivity range	Auto, Fixed (ISO 80-1600)
Scene modes	Auto Picture, Program, Auto-Panorama, Sport, Landscape, Night landscape, Self-portrait, Night portrait, Museum, Snow, Sunset, Fireworks, Beach, Party, Foliage, Kids&Pets, Copy, Backlight, Frame Composite, Audio, Video, Portrait
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. 0.3 - 3.0m (ISO 400) Tele: approx. 1.0m - 1.8m (ISO 400)

VIDEO

Sound	Yes
Movie	"Shake reduction" - stabilized video
Maximum file size	4GB
Resolution	VGA (640x480) 30 fps ; QVGA (320x240), 30 fps

POWER SUPPLY

Battery	Rechargeable D-LI108 Lithium-ion battery
Capacity	Approx. 200 shots and 400 min in play mode with Li-ion battery

INTERFACES

Video output	AV terminal (PAL/NTSC, mono)
USB	USB 2.0 (Hi-Speed)

RECORDING PARAMETERS

Drive modes	One shot, Self-timer (2 or 10 sec), Continuous shooting (approx. 1.6 fps), Multi-Burst (takes 16 VGA-size pictures at approx. 14.6 fps and creates a contact sheet)
White balance	Auto, Sunny, Tungsten, Fluorescent, Cloudy

OTHER FEATURES

World time	75 cities, 28 time zones
Languages	English, French, German, Spanish, Portuguese, Italian, Dutch, Japanese, Turkish, Russian, Da- nish, Greek, Hungarian, Polish, Swedish, Arabic, Simplified Chinese, Traditional Chinese
Others	Digital Shake Reduction. Face recognition, Smile capture (smile detection and auto- picture), Face beautification, Digital Panorama, Slideshow, Histogram, Copy, Resize, Cropping, Image rotation, Frame composite, Protect, DPOF, Date printing, Voice memo

DIMENSIONS AND WEIGHT

Dimensions	98.9 x 58.5 x 22.9mm
Weight	116g unloaded, 133g loaded and ready

SYSTEM REQUIREMENTS

Operating systems	PC: Windows 2000, XP SP2, Vista™ and 7 Mac: OS X 10.4 or above
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SOFTWARE

Arcsoft Media Impression 2.0 for PENTAX