

PENTAX▶ **Optio H90**

PURE DESIGN FOR ABSOLUTE EMOTION

- * **12.1 Megapixel** CCD sensor
- * **Wide angle 5x optical zoom** (equ. to **28-140mm** in 35mm)
- * Video recording in **HDTV compatible** (1280x720 pixels, **30 fps**)
- * **2.7" LCD** monitor, 230 000 dots
- * Continuous shooting: **2.9 fps**
- * Pixel Track function
- * Li-Ion rechargeable battery
- * Face recognition, Smile capture and Blink detection modes
- * Sensitivity up to **ISO 6400**
- * Great value for money



OPTIO H90	Orange/silver	16487
Barcode		0027075163690
OPTIO H90	White/silver	16502
Barcode		0027075163836
OPTIO H90	Black/silver	16517
Barcode		0027075163973
Dimensions		9.4 x 5.6 x 2.4 cm
Weight (unloaded)		114 g

SUPPLIED ACCESSORIES	Art No.
AV cable I-AVC7	39552
USB cable I—USB7	39551
AC cable D-CO24E	39256
Battery charger D-BC88	39775
Li-ion battery D-LI88	39774
Strap O-ST104	39857
Software S-SW104	39856

OPTIONAL ACCESSORIES	Art No.
Orange microfabric case	50238
White microfabric case	50239
Black microfabric case	50240
Neoprene case	50159
Sport strap O-ST81	39457
Black leather strap O-ST24	39263
AC adapter kit K-AC88E	39789
Battery charger kit K-BC88E	39778



Orange microfabric case



White microfabric case



Black microfabric case



Neoprene case



Sport strap



Leather strap



AC adapter kit



Battery charger

Optio H90 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 (4000x3000), 7M (3072x2304), 5M (2592x1944), 3M (2048x1536), 2.1M (16:9) (1920x1080), 1024 (1024x768), 640 (640x480 pixels)
Sensitivity	ISO auto, 80, 100, 200, 400, 800, 1600, 3200, 6400

LENS

Focal length	PENTAX 5.1 - 25.5mm, 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. 6.25x
Intelligent zoom	Approx. 6.5x at 7M, approx. 31.3x at 640 (including optical zoom)

LCD SCREEN

Type	2.7" (6.86cm) colour LCD, approx. 230k dots, extra-wide angle viewing
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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)
Sound format	WAV (PCM), mono

MEMORY

External memory	Compatible with SD, SDHC, and Eye-Fi* cards
Internal memory	approx. 32.7 MB

FOCUSING

Autofocus	TTL Contrast detection Autofocus system
Focus options	Manual focus, Infinity-landscape, Pan focus
AF points	Multi-AF 9 points zone, Spot AF, Auto-tracking AF (anticipating moving subject)
Normal	0.4m - infinity (at wide setting), 1m - infinity (at tele setting)
Macro	0.1m - 0.5m (at wide setting), 0.2 m - 0.5m (at tele setting)
Super macro	0.08m - 0.15m (at focal length of 6.36mm)

EXPOSURE CONTROL

TTL Metering modes	Multi-segment metering, Centre-weighted metering, Spot 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 80-6400)
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, Fireworks, Frame Composite, Party, Natural Skin Tone, Candlelight, Text, Blog, Digital Wide, Digital Panorama, 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. 0.15 - 4.0m (ISO Auto) Tele: approx. 1.0 - 2.4m (ISO Auto)

VIDEO

Sound	Yes
Movie	"Shake reduction" - stabilized video
Duration	Depends on memory card capacity
Resolution	HDTV (1280x720), 30fps VGA (640x480) 30fps ; QVGA (320x240), 30 fps
Video editing	Yes

POWER SUPPLY

Battery	Rechargeable D-LI88 Lithium-ion battery
Capacity	Approx. 210 shots and 250 min in play mode
Other sources	Optional AC adapter

INTERFACES

Video output	PC / AV terminal (PAL/NTSC, mono)
USB	USB 2.0 (Hi-Speed) and AC power input

RECORDING PARAMETERS

Drive modes	One shot, Self-timer (2 or 10 sec), Continuous shooting (2.9 fps), High-speed continuous shooting (5.9 fps at ISO 3200 / 6400 setting) for up to 6 frames, Burst shooting
White balance	Auto, Daylight, Shade, Tungsten, Fluorescent, Manual setting
DRE	Dynamic Range Enlargement

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), Extract colour, Colour enhancement, Toy camera, Retro, Soft, Brightness
Others	Noise reduction if shutter speed exceeds 0.25 sec. Motion Blur reduction - Pixel Track SR. Face recognition (detects up to 32 faces), Smile capture (smile detection and auto-picture) and Blink detection modes (eyes shut detection), Slideshow, Histogram, Calendar, Resize, Cropping, Image rotation, Frame composite, Red-eye compensation, Movie edit, Voice recording, Protect, DPOF, Image recovery, Selection as Start image, Date printing, Face close up playback, Eye-Fi* Compatible

DIMENSIONS AND WEIGHT

Dimensions	94.5 × 56.5 × 24.5 mm (including lens depth)
Weight	114 g unloaded, 131 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