

PENTAX Detiow90



THE WATERPROOF CROSSOVER

- 12.1 Megapixel CCD sensor
- Waterproof to 6 m, shockproof to 1.2 m, coldproof to -10°C
- Wide angle 5x optical zoom (equ. to 28-140mm in 35mm)
- Video recording in **HDTV** compatible (1280x720 pixels, **30 fps**)
- Micro-HDMI output
- 2.7" 16:9 LCD monitor, 230 000 dots
- **3 LED** for macro and underwater photography
- 1cm macro, underwater photo and underwater movie modes
- Optional **60m waterproof housing** available in June 2010
- Face recognition, Smile capture and Blink detection modes
- Sensitivity up to ISO 6400



HOTLINE: 0870 7368 299

OPTIO W90	Black	16412
Barcode	002	27075164109
OPTIO W90	Black/Pistachio	16427
Barcode	0027075164246 10.7 x 5.9 x 2.5 cm	
Dimensions		
Weight (unloade	d)	144 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
Carabiner strap O-ST103	39861
Strap O-ST104	39857
Software S-SW102	39855
OPTIONAL ACCESSORIES	Art No.
OPTIONAL ACCESSORIES Black neoprene pouch	Art No. 50242
	7.11.01.01
Black neoprene pouch	50242
Black neoprene pouch Green neoprene pouch	50242 50241
Black neoprene pouch Green neoprene pouch Waterproof remote control O-RC1	50242 50241 39892
Black neoprene pouch Green neoprene pouch Waterproof remote control O-RC1 Waterproof housing (up to 60m)	50242 50241 39892 50243
Black neoprene pouch Green neoprene pouch Waterproof remote control O-RC1 Waterproof housing (up to 60m) Sport strap O-ST81	50242 50241 39892 50243 39457





Neoprene case

Neoprene case







Waterproof remote Waterproof housing control







Floating strap

AC adapter kit

Battery charger



► Optio W90 Technical specifications

CCD SENSOR

Number of pixels Approx. 12.1 megapixels - effective

1/2.3" CCD Sensor size Colour depth 12 bits x 3 colours

12M (4000x3000), 10.7M (3:2) (4000x2672), Image size

9M (16:9) (4000x2256), 9M (1:1) (2992x2992),

7M (3072x2304), 5M (2592x1944), 3M (2048x1536), 2.1M (16:9) (1920x1080), 1024 (1024x768), 640 (640x480 pixels), 3 Quality levels of JPEG (good, better, best)

LENS

Focal length PENTAX 5 - 25mm, equ. to 28-140mm in 35mm

Aperture

Construction 11 elements in 9 groups (5 aspherical elements)

Optical zoom

Digital zoom Approx. 6.25x

Approx. 6.5x at 7M, approx. 31.3x at 640 (including Intelligent zoom

optical zoom)

LCD SCREEN

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

wide angle viewing, with AR coating

FILE FORMATS

Photo format JPEG (Exif 2.2), DCF 2.0, DPOF,

> PRINT Image Matching III AVI (Motion JPEG)

Video format Sound format WAV (PCM), mono

MEMORY

External memory Compatible with SD, SDHC, and Eye-Fi* cards

approx. 26.7 MB Internal memory

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 0.5m - infinity (whole zoom area) Macro 0.1m - 0.6m (whole zoom area) 1cm Macro 0.01m - 0.30m (middle zoom position)

Special Macrolight (3 LED at front)

AF assist lamp

EXPOSURE CONTROL

TTL Metering modes Multi-segment metering, Centre-weighted mete-

ring, Spot metering

System Program controlled electronic auto exposure with

electronic shutter with CCD

Shutter speeds Sensitivity range Scene modes

1/1500 - 1/4 sec. 4 sec max. (Night Scene mode) ISO auto, 80, 100, 200, 400, 800, 1600, 3200, 6400 Auto Picture, Program, Night Scene, Night Scene

Portrait, Half-length Portrait, Movie, Underwater photo, Underwater movie, Landscape, Flower, Portrait, Digital Microscope, Digital Wide, Digital SR, Surf & Snow, Kids, Pet, Sport, Fireworks, Candlelight, Text, Food, Digital Panorama, Frame com

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posite, Report, Green

Exposure compensation ± 2EV (1/3EV steps)

SOFTWARE **Arcsoft Media Impression 2.0 for PENTAX** 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

"Red-eye" reduction function Other Flash range Wide: approx. 0.3 - 3.9m (ISO Auto)

Tele: approx. 0.3 - 2.5m (ISO Auto)

VIDEO

Movie "Shake reduction" - stabilized video with sound

Duration Depends on memory card capacity

Resolution HDTV (1280x720), 30fps

VGA (640x480) 30fps; QVGA (320x240), 30 fps

Video Editing

POWER SUPPLY

Batterv Rechargeable D-LI88 Lithium-ion battery Capacity Approx. 205 shots and 250 min in play mode

Other sources Optional AC adapter kit

INTERFACES

Video output Micro-HDMI, PC/AV terminal (PAL/NTSC, mono)

USB 2.0 (Hi-Speed) and AC power input

RECORDING PARAMETERS

Drive modes One shot, Self-timer (2 or 10 sec), Continuous

> shooting (2.7 fps), High-speed continuous shooting (5 fps at ISO 3200 / 6400 setting) for up to 6 frames, Burst shooting, IR Remote Control, In -

terval shooting, Auto bracket

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, High contrast,

Starburst, Soft, Fisheye, Brightness

Others Pixel Track Shake Reduction. Noise reduction if

> shutter speed exceeds 0.25 sec., face recognition (detects up to 32 faces), Smile capture (smile detection and auto-picture) and Blink detection modes (eyes shut detection), Small face filter, Ink rubbing filter, Collage, Slideshow, Histogram, Bright and dark portion, Calendar, Resize, Cropping, Image rotation, Original frame, Frame composite, Movie edit, Subscreen input, Red-eye compensation, Voice recording, DPOF, Protect, Image recovery, Picture selection as Start image, Date printing, Pet recognition, Face

close up playback, Eye-Fi* compatible

DIMENSIONS AND WEIGHT

Dimensions $107.5 \times 59 \times 25$ mm (including lens depth) Weight 144 g unloaded, 161 g loaded and ready JIS Class Equivalent to JIS Class 8 waterproof and JIS

Class 6 dustproof capabilities

SYSTEM REQUIREMENTS

PC: Windows XP SP2. Vista™ and 7 Operating systems

Mac: OS X 10.3.9 or above

