



KEY FEATURES

- A wide angle, 5X optical zoom lens (28-140mm equivalent) captures the perfect shot, whether wide, expansive landscapes or small, distant subjects.
- A high resolution 12.1 megapixel sensor ensures exceptional detail in large print sizes or cropping flexibility.
- The large 2.7 inch LCD makes it easy to frame a subject for video or still image capture.
- Enjoy art gallery inspired aesthetics with an ultra slim design and fashionable styling.
- Capture the moment, and all the moments that follow, with widescreen 720p HD video capture at 30 frames per second.
- Advanced Pixel Track Shake Reduction ensures sharp, blur-free images, even in challenging lighting.
- Shoot perfect portraits with fast Face Detection, Smile Capture, and Blink Detection, combined with powerful portrait processing modes for pleasing composition and skin tone.
- Set it and forget it with PENTAX's Auto Picture mode, which analyzes the scene and tailors the shooting mode to best suit the subject.



DESCRIPTION	PRODUCT #	MAP
Optio H90 Silver-Orange Kit	16486	\$179.95
Optio H90 Ceramic White Kit	16501	\$179.95
Optio H90 Matte Black Kit	16522	\$179.95

Availability: February, 2010
Disclaimer: All prices and specifications subject to change.

CAMERA HARDWARE

MODEL: Optio H90
TYPE: Compact Digital Camera
PRODUCT CODE: 16486 (Silver-Orange), 16501 (Ceramic White), 16522 (Matte Black)
UPC: 027075163102 (Silver-Orange), 027075163836 (Ceramic White), 027075163966 (Matte Black)

SENSOR

Type: 1/2.3" interline transfer CCD w primary color filter
Effective pixels: 12.1
Total pixels: 12.39
Recorded resolutions
Still: 12M (4000x3000), 7M (3072x2304), 5M (2592x1944), 3M (2048x1536), 2.1M (16:9, 1920x1080), 1024 (1024x768), VGA (640x480)
Movie: 1280x720p30/15, 640x480p30/15, 320x240p30/15
Quality levels: Fixed, 12M(H)

LENS

Type/construction: PENTAX zoom lens, 7 elements, 6 groups (3 aspheric elements)
Optical zoom: 5X
Focal length (equiv.): 5.1-25.5mm (28-140mm)
Digital zoom: 6.25X
Combined zoom: 31.3X
Intelligent zoom: Approx 6.5X at 7M to 31.3X at VGA
Aperture: F3.5-5.9

LCD/VIEWFINDER

LCD screen: 2.7" TFT color LCD
LCD resolution: 230,000 dots
Wide angle viewable: Yes
Viewfinder: n/a

FOCUS SYSTEM

Type: TTL contrast detection autofocus
Focus modes: 9 point AF, Spot AF, Auto Tracking AF, Macro, Super Macro, Infinity Landscape, Pan Focus, Manual Focus
Manual focus: Yes
Macro focus: Yes (Super Macro focus also available)
Focus lock: Yes, by pressing the shutter release button half way
Focus range
Normal: 1.31' to infinity (wide), 3.3' to infinity (tele)
Macro: 0.33-1.64' (wide), 0.66-1.64' (tele)
Super Macro: Approx 0.26'- 0.49' (at mid zoom, set automatically)

FLASH

Type: Built-in series-control auto flash
Flash modes: Auto, Flash Off, Flash On, Auto + Redeye, On + Redeye, Soft
Effective range: 13' (wide, auto ISO), 7.9' (tele, auto ISO)

STORAGE MEDIA

Internal memory: 32.7 MB
Removable memory: SD, SDHC

INTERFACES

Ports: USB 2.0 hi-speed, AV out
Video out: NTSC, PAL
Printer interfaces: n/a

POWER SUPPLY

Power source: Rechargeable Li-Ion battery D-LI88
Recordable images: Approx 210
Playback time: Approx 250 min
Movie recording time: Approx 85 min
Audio recording time: Approx 300 min
AC adapter available: Yes (optional)

PHYSICAL SPECIFICATIONS

Dimensions (W x H x D): 3.7 x 2.2 x 1.0"
Weight
Without battery or removable memory: 4.0 oz
Loaded and ready: 4.6 oz
Construction material(s): Polycarbonate with aluminum accent
Operating temperature: 32-104°F
Weather Resistant: n/a
Shock Resistant: n/a

TIMING

Startup: Approx 1.7 sec
Release lag: Approx 0.03 sec

LANGUAGE SUPPORT

English, French, German, Spanish, Portuguese, Italian, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Thai, Korean, Traditional/Simplified Chinese

KIT COMPONENTS

Optio H90, USB Cable I-USB7, AV Cable I-AVC7, Rechargeable Li-Ion Battery D-LI88, Battery Charge Cradle D-BC88(A), AC Plug Cord, Strap O-ST104, Software CD-ROM S-SW104

OPTIONAL ACCESSORIES

AC Adapter Kit, Battery Charger Kit K-BC88U, PTX-210-LHM Leather Case, PTX-L50 Medium Nylon Case, Optio Extended Warranty (+2 year)

IMAGE CAPTURE

IMAGE STABILIZATION

Still: Pixel Track SR, Digital SR (ISO 3200-6400 5M or 3.8M)
Movie: Movie SR

METERING SYSTEM

Type: TTL
Multi-segment: Yes
Center weighted: Yes
Spot: Yes
Exposure compensation: +/- 2 EV (1/3 steps)

ISO SENSITIVITY

Auto: 80-800, Digital SR 80-6400 (ISO 3200-6400 at 5M or 3.8M)
Manual: 80-6400 (ISO 3200-6400 at 5M or 3.8M)

WHITE BALANCE

Auto preset modes: Auto, Daylight, Shade, Tungsten, Fluorescent
Manual mode(s): Yes

SHUTTER

Type: Programmed AE electronic lens shutter w CCD electronic shutter
Shutter speed: 1/2000 to 1/4 sec (wide), 1/1500 to 1/4 sec (tele), up to 4 sec in Night Scene mode

CAPTURE MODES

Mode selection: Auto Picture (*Standard, Landscape, Portrait, Night Scene Portrait, Night Scene, Sport, Flower*), Program, Night Scene, Night Scene Portrait, Half Length Portrait (3M), Movie, Landscape, Flower, Portrait, Surf & Snow, Sport, Digital SR (ISO 3200-6400 5M or 3.8M), Kids, Pet, Food, Fireworks, Frame Composite (3M), Party, Natural Skin Tone, Candlelight, Text, Blog (VGA), Digital Wide (5M), Digital Panorama (2M per frame), Green, Voice Recording (via reprogrammable Green button)
Green simplified mode available: Yes
Face detection available: Yes, up to 32 faces in 0.03s, Smile Capture, Blink Detection
P/A/S/M/B: P
Date stamp: Yes, date, date-time, time (not available in Green mode)
Digital filters (capture): n/a
Dynamic Range Adjustment: Yes, highlight and shadow correction

DRIVE MODES

Mode selection: One Shot, Self Timer, Continuous, Burst
Continuous FPS: Approx 1.03 FPS for 8 frames, Burst 2.94 FPS for 6 frames, 5.88 FPS for 6 frames at ISO 3200-6400
Self-timer: Yes (10s, 2s)
Remote control: n/a

PLAYBACK MODES

Mode selection: One Shot, Index (4 or 9 thumbnails), Magnification, Movie Playback, Sound Playback, Histogram, Folder, Select & Delete, Calendar
Mode pallet: Slideshow, Resize, Cropping, Image & Sound Copy, Image Rotation, Digital Filter, Movie Edit, Frame Composite (3M), Redeye Edit, Voice Recording, Protect, DPOF, Image Recovery, Startup Screen, [Face Zooming](#)
Magnification: Yes, up to 10X, scrollable
Digital filters (playback): B&W, Sepia, Toy Camera, Retro, Color, Color Extract, Color Emphasis, Soft, Brightness
Movie edit: Save As Still Image, Movie Divide

FILE FORMATS

Still: JPG (EXIF 2.2), DCF 2.0, DPOF, Print Image Matching III
Movie (compression): AVI (Motion JPG)
Sound: WAV (PCM), monaural

FILE STORAGE MATRIX (BASED ON 1GB MEMORY)

STILL		
12M (H)	214	
12M	419	
7M	598	
5M	737	
3M	1185	
2.1M	1727	
1024	3556	
VGA	6717	
MOVIE (H:M:S)		15 FPS
HD 720p	0:05:05	0:10:10
VGA	0:15:02	0:29:38
QVGA	0:23:59	0:45:48
SOUND (H:M:S)		12:28:41

COMPUTER SYSTEM REQUIREMENTS*

*For device connectivity. Bundled software requirements may vary.
Windows: Windows XP/Vista/7, USB port
Mac: MacOS-X 10.3.9, 10.4, 10.5, 10.6, USB port