

KEY FEATURES

- A 10 megapixel sensor provides outstanding resolution with plenty of pixels to crop or output large prints.
- The 3X (31.5-94.5mm equivalent) optical lens offers sharp focus throughout the zoom range.
- A large 2.7 inch LCD screen assists in the capture and review of images and video.
- The textured, rubberized surface provides a rich feel and a sure grip.
- Compatibility with popular AA batteries is ideal for travelers who don't want to lug around a battery charger.
- PENTAX's powerful Auto Picture mode analyzes the scene, and determines the best shooting mode for a particular subject.
- Sharp, high quality images and video with Digital and Movie Shake Reduction technology.
- Freeze subject action with a 1600 ISO sensitivity, even in dim lighting.
- Intelligent ergonomic design features sure grip surface and easy to read camera menus.



DESCRIPTION	PRODUCT #	MAP
Optio E90 Black Kit	17911	\$99.95
Optio E90 Wine Red Kit	17916	\$99.95

Availability: February, 2010

Disclaimer: All prices and specifications subject to change.

CAMERA HARDWARE

MODEL: Optio E90
TYPE: Compact Digital Camera
PRODUCT CODE: 17911 (Black), 17916 (Wine Red)
UPC: 027075156883 (Black), 027075156937 (Wine Red)

SENSOR

Type: 1/2.3" interline transfer CCD w primary color filter
Effective pixels: 10.1
Total pixels: 10.6
Recorded resolutions
Still: 10M (3648x2736), 7M (3072x2304), 5M (2592x1944), 3M (2048x1536), 2.1M (16:9, 1920x1080), 1024 (1024x768), VGA (640x480)
Movie: 640x480p30/15, 320x240p30/15
Quality levels: Fixed, 10M(H)

LENS

Type/construction: PENTAX zoom lens, 7 elements, 6 groups (3 aspheric elements)
Optical zoom: 3X
Focal length (equiv.): 5.7-17.1mm (31.5-94.5mm)
Digital zoom: 5.7X
Combined zoom: 17.1X
Intelligent zoom: Approx 3.6X at 7M to 17.1X at VGA
Aperture: F2.9-5.2

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: 3 point AF, Spot AF, Auto Tracking AF, Macro, Infinity Landscape, Pan Focus
Manual focus: Yes
Macro focus: Yes
Focus lock: Yes, by pressing the shutter release button half way
Focus range
Normal: 1.64' to infinity
Macro: 0.33-1.97' (wide), 1.15-1.97' (tele)

FLASH

Type: Built-in series control auto flash
Flash modes: Auto, Flash Off, Flash On, On + Redeye
Effective range: 18' (wide, auto ISO), 9.8' (tele, auto ISO)

STORAGE MEDIA

Internal memory: 6 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: 2 AA batteries (lithium, NiMH, alkaline)
Recordable images: Approx 600 (lithium)
Playback time: Approx 800 min (lithium)
Movie recording time: Approx 300 min (lithium)
AC adapter available: Yes (optional)

PHYSICAL SPECIFICATIONS

Dimensions (W x H x D): 3.6 x 2.4 x 1.1"
Weight
Without battery or removable memory: 4.3 oz
Loaded and ready: 6.0 oz
Construction material(s): Polycarbonate with rubberized texture surface
Operating temperature: 32-104°F
Weather Resistant: n/a
Shock Resistant: n/a

TIMING

Startup: TBD
Release lag: TBD

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 E90, USB-AV Cable I-USB98, Strap O-ST86, Software CD-ROM S-SW104, AA Alkaline Batteries (2)

OPTIONAL ACCESSORIES

AC Adapter Kit K-AC62E, AA Rapid Charger (w 4 batteries), PTC-L50 Medium Nylon

IMAGE CAPTURE

IMAGE STABILIZATION

Still: Digital SR (5M)
Movie: Movie SR

METERING SYSTEM

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

ISO SENSITIVITY

Auto: 100-800, Digital SR 100-1600 (5M)
Manual: 100-1600

WHITE BALANCE

Auto preset modes: Auto
Manual mode(s): Yes

SHUTTER

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

CAPTURE MODES

Mode selection: Auto Picture (*Standard, Landscape, Portrait, Night Scene Portrait, Night Scene, Sport, Flower, Candlelight*), Program, Night Scene, Night Scene Portrait, Half Length Portrait, Movie, Landscape, Flower, Portrait, Surf & Snow, Sport, Digital SR (5M), Kids, Pet, Food, Natural Skin Tone, Candlelight, Digital Panorama (2M per frame), Frame Composite (3M), Sunset, Green
Green simplified mode available: Yes
Face detection available: Yes (up to 10 faces), Smile Capture
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: n/a

DRIVE MODES

Mode selection: One Shot, Self Timer, Continuous, Multi-Burst (16 VGA frames)
Continuous FPS: [Approx TBD](#)
Self-timer: Yes (10s, 2s)
Remote control: n/a

PLAYBACK MODES

Mode selection: One Shot, Index (4 or 9 thumbnails), Magnification, Movie Playback, Select & Delete, Calendar
Mode pallet: Slideshow, Digital Filter, Frame Composite (3M), Resize, Cropping, Image Copy, Image Rotation, Redeye Edit, Protect, DPOF, Image Recovery, [Face Zooming](#)
Magnification: Yes, up to 10X, scrollable
Digital filters (playback): B&W, Sepia, Color Filter, Fisheye, Starburst, Brightness
Movie edit: n/a

FILE FORMATS

Still: JPG (EXIF 2.2), DCF 2.0, DPOF, Print Image Matching III
Movie (compression): AVI (Motion JPG) w sound
Sound: n/a

FILE STORAGE MATRIX (BASED ON 1GB MEMORY)

STILL		
10M(H)	241	
10M	483	
7M	604	
5M	743	
3M	1208	
2.1M	1611	
1024	3719	
VGA	6908	
MOVIE (H:M:S)		15 FPS
VGA	00:17:54	00:35:49
QVGA	00:35:49	1:11:38

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