

Type

Megazoom Digital Camera

Sensor

Type: 1/2.33" backlit CMOS sensor with primary color filter
Effective pixels: 16MP
Total pixels: 16.37MP
Recorded resolutions (pixels):
Still: 16M (4608x3456), 12M (1:1) (3456x3456), 12M (16:9) (4608x2592), 7M (3072x2304), 5M (16:9) (3072x1728), 5M (2592x1944), 4M (16:9) (2592x1464), 3M(2048x1536), 2M(16:9)(1920x1080), 1024(1024x768), 640(640x480)
* Burst Shooting(L/H) mode - fixed 5M (2592x1944) or 4M (2592x1464) per frame.
* Digital Wide mode – fixed 5M (2592x1944 - after Merge) - fixed 3M (2048x1536 – before merge) in single frame.
* Frame composite mode, resolution fixed to 3M (2048x1536).
* Digital Panorama mode, resolution fixed to 2M (1600x1200) per frame.
* Stage Lighting mode, resolution fixed to 2M (1600x1200).
Movie: HD 1920(1920x1080): approx. 30fps, 1280(1280x720): approx.60/30fps,
640(640x480): approx. 30fps
Quality levels: *** (best), ** (better), * (good)

Lens

Type/construction: smc PENTAX zoom lens - 12 elements in 9 groups (3 aspherical elements)
Optical zoom: 26X
Focal length (equiv.): 4.0 - 104mm (22.3 - 580mm)
Digital zoom: approx. 7.2X
Combined zoom: 187.2X
Intelligent zoom: approx. 39X at 7M, approx. 187.2X at 640 (including optical zoom)
Aperture: f/3.1- 5.9

Focus System

Type: TTL contrast detection autofocus.
Focus modes: 9 point AF, Spot AF, Auto Tracking AF, Macro, Super Macro, Infinity Landscape, Manual, Focus Point Selection
Manual focus: Yes
Macro focus: Yes, Macro and Super Macro available
Focus lock: Yes, by pressing the shutter release button half way
Focus range
Normal: 1.31' to infinity (wide), 5.6' to infinity (tele)
Macro: 0.33-1.64' (wide to mid zoom)
Super Macro: 0.03-0.98' (at mid zoom, set automatically)

Viewfinder

Viewfinder: Electronic Viewfinder, approx. 230K dots. (Equipped the with diopter adjustment dial).

LCD Monitor

LCD screen: 3.0-inch tiltable LCD (Can be lowered to approx.60° or raised to approx.90°)
LCD resolution: 460,000 dots
Wide angle viewable:

Flash

Type: Retractable popup series-control auto flash
Flash modes: Auto, Flash Off, Flash On, Auto + Redeye, On + Redeye, Slow Sync, Slow Sync + Redeye
Effective range: Wide: approx. 0.66- 38 ft (ISO Auto) Tele: approx. approx. 4.9 – 20ft (ISO Auto)
Flash Exposure Compensation

Storage Media

Internal memory: (approx. 75.3 MB) `
Removable memory: SD, SDHC, SDXC
Eye-Fi Compatible

Interfaces

Ports: USB 2.0 hi-speed, PC/AV Out, HDMI (type D), DC Input Terminal
Video out: NTSC, PAL (HDMI out supports Auto, 1080i, 720p, 480p)

Power Supply

Power source: 4 AA batteries (Alkaline, Lithium, Nickel and Rechargeable Ni-MH), Optional AC adapter kit is also available.
Recordable images (approx): (330 - w/ Alkaline batteries), (500 w/ Rechargeable w/ Ni-MH batteries), (950 w/ Lithium batteries)
Playback time (approx) : (420 min. w/ Alkaline batteries), (500 min. w/ Rechargeable Ni-MH batteries), (950 min. w/ Lithium batteries)
Movie recording time (approx): (75 min. w /Alkaline batteries), (150 min. w/ Rechargeable Ni-MH batteries), (280 min. w/ Lithium batteries)
AC adapter available: Yes (optional)

Physical Specs

Dimensions (W x H x D): 4.7 x 3.4 x 4.2”
Weight:
Without battery or removable memory: 17.9 oz
Loaded and ready: 21.1 oz
Construction material(s): Reinforced polycarbonate plastic
Operating temperature: 32-104°F
Weather Resistant: n/a
Shock Resistant: n/a

Language Support

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

Image Stabilization

Still: Sensor-Shift SR, Dual (Sensor-shift SR and Pixel-Track SR), Digital SR (High-sensitivity anti-shake mode)
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, Manual (ISO 100 – 6400)

White Balance

Auto, Daylight, Shade, Tungsten light, Fluorescent light(D, N, W), Manual setting

Shutter

Type: Programmed AE electronic lens shutter w CCD electronic shutter
Shutter speed: 1/1500 to 1/4 sec (up to 4 sec Manual, Night Scene modes)

Capture Modes

Mode selection Auto Picture, Program, Manual, USER, Movie, Handheld Night Snap, Sport, Landscape, Portrait, Scene (Flower, Blue Sky, Sunset, Night Scene, Night Scene Portrait, , Fireworks, HDR, Surf & Snow, Baby, Kids, Pet, Food, Digital SR, Stage Lighting, Text, Museum, Digital Wide, Digital Panorama, Frame Composite), Green
Green simplified mode available: Yes
Face detection available: Yes (AF&AE is available in all modes, up to 32 faces), Smile Capture, Blink Detection
P/A/S/M/B: P, A, S, M
Date stamp: Yes, date, date-time, time (not available in Green mode)
Digital filters (capture): Image Tone (Bright, Natural, Monochrome)
Dynamic Range Adjustment: (Highlight and Shadow correction)

Drive Modes

Mode selection: One shot, Continuous Shooting, Burst Shooting (L/H), Self-timer, Remote Control, Auto Bracketing
Continuous FPS: Approx 1.12 FPS, Burst L (5M or 4M), Burst H (5M or 4M)
Self-timer: Yes (10 sec, 2 sec)
Remote control: Yes

Playback Modes

Mode selection: One Shot, Index (4 or 9 thumbnails), Magnification, Movie Playback, Histogram, Folder Display, Select & Delete, Calendar
Mode pallet: Slideshow, Image Rotation, Stretch Filter, Small Face Filter, Collage, Digital Filter, HDR Filter, Frame Composite, Movie Editing, Red-eye Compensation, Resize, Cropping, Image Copy, Protect, DPOF, Start-up Screen
Magnification: Up to 10X, scrollable
Digital filters (playback): (B&W, Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Soft, Fish-eye, Brightness, Miniature Filter)
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

Computer Requirements

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