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Type

Single-lens-reflex-type digital still camera with TTL auto exposure, autofocus and built-in TTL auto flash.

Effective Pixels

6.1 megapixels

Sensor

Interline interlace CCD
Size: 23.5mm x 15.7mm (diagonal line: 28.40mm)
Total pixels: 6.31 megapixels

Recorded Pixels

Large: 3008 x 2008 pixels
Middle: 2400 x 1600 pixels
Small: 1536 x 1024 pixels
(Switchable to 1152 x 768 pixels or 960 x 640 pixels by custom function)

Sensitivity

Equivalent to ISO 200 to ISO 1600 (3200 available as Custom Function)

File Formats

Exif 2.2, DCF, DPOF

Quality Levels

Compressed: JPEG-baseline with compressibility rates of
*** (1/3), ** (1/6) and * (1/12)
Uncompressed: 8-bit TIFF-RGB Ver.6.0 and 12-bit RAW

Storage Media

CompactFlash™ cards (Type I and Type II) and MicroDrive™

Color Composition

JPEG: YCbCr (4:2:2)
TIFF: TIFF-RGB (4:4:4)
RAW: RAW data of CCD

White Balance

Auto: TTL control using image sensor
Preset: Daylight, Cloudiness, Shade, Tungsten light and Fluorescent light (W, N, D)
Manual: 3 settings

LCD Monitor

1.8 inch low-temperature polysilicon TFT LCD with backlight

LCD Function

Single frame, zoom in/out, nine-image, slide show, image rotation,
shooting data indication (including date and histogram),
quick view (instant display of image after shooting)

Delete Function

Single-frame-deletion, All-frame deletion, card format, protect

Video Output

NTSC/PAL switchable

Interfaces

USB 1.1

Lens Mount

PENTAX KAF mount compatible with PENTAX KAF2-, KAF- and KA-mount lenses.
Power zoom function not available.
K-mount lenses usable with restrictions
S-mount lenses usable with adapter and restrictions
67/645 lenses usable adapter and restrictions

Exposure Modes

Auto exposure with Hyper Program, Programmed AE, Shutter-Priority AE,
Aperture-Priority AE, Metered Manual, bulb

Shutter

Electronically controlled vertical-run focal-plane shutter with electronic release
Auto shutter speeds: 1/4000 sec. to 30 sec.
Manual shutter speeds: 1/4000 sec. to 30 sec. (0.5EV steps) and bulb
Shutter lock at power-off position

Viewfinder

Eye-level-type fixed pentaprism viewfinder with Natural-Bright-Matte focusing screen.
Field of view: 95%
Magnification: 0.95X (with 50mm F1.4 lens at infinity, -1m-1)
Diopter adjustment: -1.0m-1 to +2.0m-1

Viewfinder Indication

Out of image area: Built-in flash status, AF sensor pattern, in-focus,
shutter speed, aperture, exposure compensation factor, bar graph.
Within image area: AF frame with superimposed AF sensor point, spot AF frame.

External LCD

Quality level, Tv dial, Av dial, shutter speed, aperture value,

Panel Indication

exposure compensation, exposure frame number, battery exhaustion warning,
RTF recharge, flash status, RTF function, red-eye reduction flash,
wireless flash mode, high-speed synchronization, remote control, self-timer,
film advance mode (single-frame/consecutive), multiple exposure, auto bracketing,
auto white balance control, preset white balance control, manual white balance control.
Illumination activated by preview lever.

Exposure Meter

TTL open-aperture 16-segment metering
Spot metering and center-weighted metering selectable.
Metering range (at ISO200 with 50mm F1.4 lens): EV0 to EV21
(EV1 to EV21.5 with multi-segment metering)

Exposure compensation

±3.0EV (in 0.5EV steps)

Auto Bracketing

3 frames (proper/over/under) within range of ±3.0EV (0.5EV steps) or ±2.0EV (0.3EV steps).
Simultaneous use with exposure compensation possible

AE Lock

Pushbutton type with approx. 20-second timer, extendable with shutter button half-pressed

Drive Modes

Single-frame advance, continuous advance (2.6 fps) up to 6 frames (at noise reduction off)

Autofocus

TTL phase-matching autofocus system
Applicable illumination range: EV0 to EV19 (at ISO200)
AF-Single, AF-Continuous, Manual Focus switchable
Focus lock available.
AF sensor point selectable
AF auxiliary illumination by built-in flash available

Built-in Flash (RTF)

Guide number: 15.6 (at ISO200/m), Guide number: 11 (at ISO100/m).
Angle of view coverage: 18mm
Synchronization speed: 1/150 sec.
Flash-Off, flash-on and red-eye reduction functions available.

Synchronization

Via hot shoe (with X-contact for dedicated flash unit)
Dedicated accessory flash units available
Sensitivity range: ISO200 to ISO1600
Flash synchronization: up to 1/150 sec.
High-speed synchronization, wireless remote-control synchronization and
P-TTL synchronization functions available with dedicated flash unit.

Self-timer

Electronically controlled type with 12- or 2-second delay.
Mirror lock-up mechanism available.
Mid-operation cancellation possible.

Remote Control

Infrared wireless remote control with optional remote controller.
Effective range: 5m (16.6 ft.) from front side of camera.
Instant release or 3-second-delay release switchable.

Preview

Electronic preview. Available in all modes.

Power Source

4 AA-sized batteries (lithium, alkaline, nickel-hydrogen or nickel) or 2 CR-V3 batteries.
Optional AC adapter available.

Battery Life

CR-V3: Approx. 1000 frames at normal temp. (68°F/20°C) and no flash used.
Lithium batteries: Approx. 900 frames at normal temp. (68°F/20°C) and no flash used.
Ni-MH batteries: Approx. 450 frames at normal temp. (68°F/20°C) and no flash used.
Alkaline batteries: Approx. 110 frames at normal temp. (68°F/20°C) and no flash used.

Dimensions

129.0mm x 94.5mm x 60mm (5.1 x 3.7 x 2.4 inches)

Weight

550g (19.4 oz.) for body only (without batteries and memory card)

Computer System Requirements

Mac Requirements - OS: Mac OS 8.6 or later (QuickTime 4.0 or later to view movies), CPU:
Power PC 266MHz or higher, Memory: 8MB or more, Hard disk space: 6MB or more, Standard
equipped USB port

PC Requirements - OS: Windows 98, 98 second edition, 2000, Me, XP Home edition /
Professional, CPU: Pentium or later recommended, Memory: 64MB or more, Hard disk space: 15MB or
more, Standard equipped USB port