

Pentax K-5 II DSLR

Sensor	
Type	CMOS with primary color filter and integrated Shake/Dust Reduction sensor movement system
Size	23.7 x 15.7mm
Color Depth	8-bits/channel JPG: 14-bits/channel RAW
Effective Pixels	16.3 MP
Total Pixels	16.9 MP
Recorded Resolutions (Still)	16MP (4928x3264), 10MP (3936x2624), 6MP (3072x2048), 2MP (1728x1152)
Recorded Resolutions (Movie)	1920x1080p at 25 fps, 1280x720p at 30 or 25 fps, 640x480p at 30 or 25 fps
Dust Removal	DR II (ultrasonic vibration to low pass filter) with Dust Alert function
Lens Mount	
Type / Construction	PENTAX K (AF2) bayonet stainless steel mount
Usable Lenses	PENTAX K _{AF3} , K _{AF2} , K _{AF} & K _A (K-mount, 35mm screw mount, 645/67 med format lenses useable with adapter and/or restrictions)
SDM Function	Yes
Power Zoom Function	Yes
Focus System	
Type	SAFOX X TTL phase-difference 11 point (9 cross) wide autofocus system with light wavelength sensor
Focus Modes	AF Single (with focus lock, focus/shutter priority selectable), AF Continuous (w focus/FPS priority selectable), Manual
Focus Point Adjustment	Auto 11 Point, Auto 5 Point, User-Selectable, Center
AF Assist	Yes (via dedicated LED AF assist lamp)
Viewfinder	
Type	Pentaprism
Coverage (Field of View)	100%
Magnification	0.92x (with 50mm F1.4 at infinity)
Standard Focusing Screen	Natural-Bright-Matte III (interchangeable)
Diopter Adjustment	-0.8 to 4.9' (-2.5 to 1.5m)
Depth of Field Preview	Optical (diaphragm stop-down), Digital
LCD Monitor	
Type	3" (7.6cm) TFT color LCD with brightness/color adjustment & AR coating
Resolution	921K-dots
Wide Angle Viewable	Yes
Live View	
Type	TTL by CMOS image sensor
Field of View	100%
Display Modes	Magnification (2-6x AF, 2-10x MF), Grid Overlay (4x4, Golden Ratio, Scale), Bright/Dark Indication, Histogram
Autofocus	Yes (Contrast + Face Detection, Contrast Detection, Phase Difference)

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Built-In Flash	
Type	Retractable P-TTL popup flash
Guide Number	13m (ISO 100)
Coverage	28mm wide angle (35mm equivalent)
Flash Modes	On, Redeye, Slow Sync, Slow Sync + Redeye, Trailing Curtain Sync, Wireless
Flash Exposure Compensation	-2 to 1 EV (1/2 steps)
External Flash	
Type	Hot shoe (P-TTL), high speed sync and wireless with PENTAX dedicated flash, X-Sync Socket
Synchronization Speed	1/180 sec
Storage Media	
Internal Memory	N/A
Removable Memory	SD/SDHC/SDXC (via firmware update)
Interfaces	
Ports	USB 2.0 (hi-speed), AV out, HDMI out, DC in, cable switch, 3.5mm stereo microphone, X-sync socket
Video Out (HD)	HDMI (NTSC/PAL)
Image Stabilization	
Type	Sensor-Shift Shake Reduction with rotational compensation (4 stops max)
Electronic Level Function	Yes (verification via viewfinder & LCD panel)
Metering System	
Type	TTL open-aperture 77 segment metering
Sensitivity Range	EV 0 to 22 (ISO 100, 50mm F1.4)
Modes	77-segments (multi-segment), Center Weighted, Spot
Exposure Compensation	±5 EV (1/3 & 1/2 steps)
Exposure Lock	Yes
Exposure Bracketing	Yes (2, 3 or 5 frames, up to ±2 EV in 1/3 or 1/2 steps)
ISO Sensitivity	
Auto	ISO 100-12800 (1, 1/2, 1/3 steps), expandable to ISO 80-51200, Bulb mode up to ISO 1600, auto ISO range selectable
Manual	100-12800 (1, 1/2, 1/3 steps), expandable to ISO 80-51200, Bulb mode up to ISO 1600
White Balance	
Auto Preset Modes	Auto, Daylight, Shade, Cloudy, Fluorescent (D/N/W/L), Tungsten, Flash, CTE
Manual Modes	Yes (3 manual & 3 Kelvin temperature presets available, copy WB settings from a captured image available)
Shutter	
Type	Electronically controlled, vertical-run, focal plane shutter
Shutter Speed	1/8000 to 30 sec (1/3 or 1/2 steps), Bulb
Capture Modes	
Mode Selection	Green, Hyper Program (P), Sensitivity Priority (Sv), Shutter Priority (Tv), Aperture Priority (Av), Shutter & Aperture Priority (TA _v), Metered Manual, Bulb, X-Speed, USER (5 presets), Movie
Custom Image Modes	Bright, Natural, Portrait, Landscape, Vibrant, Muted, Monochrome, Reversal Film, Bleach Bypass
Green Simplified Mode Available	Yes
P/A/S/M/B	P, A, S, M, B (extended modes Sv, TA _v)

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Digital Filters (Capture)	Toy Camera, Retro, High Contrast, Extract Color, Soft, Starburst, Fisheye, Custom
Data Record	Folder name (standard, date), file name (standard, customizable), embed copyright
Drive Modes	
Mode Selection	Single, Continuous (Hi/Lo), Self-Timer, Remote, Auto Bracketing (standard, timer, remote), MLU (standard, remote), HDR Capture (+3/0/-3 with 5 blend settings and pixel alignment), Multi-Exposure (2-9 shots), Interval (999 shots, 1 sec to 24 hrs, time delay available)
Continuous FPS (Hi)	Approx. 7 fps (30 JPG, 8 RAW)
Continuous FPS (Lo)	Approx. 1.6 fps (unlimited JPG, 10 RAW)
Self-Timer	12 sec, 2 sec
Remote Control	Infrared (0 sec, 3 sec, continuous); cable switch
Playback Modes	
Mode Selection	One Shot (no data, basic data, full data, color channel histogram, bright/dark indication, copyright info), Multi Image Display (4, 9, 16, 36, 81 thumbnails), Calendar Filmstrip, Folder, Magnification, Select & Delete, Movie Playback (no data, basic data, full data), Save RAW Data From JPG (if available in buffer memory)
Mode Pallet	Image Rotation, Digital Filter, Resize, Cropping, Slideshow, Save as Manual WB, RAW Development, Index Print, Image Comparison, Protect, DPOF, Movie Edit, Extract JPG from Movie
Magnification	Up to 32x, scrollable, quick magnification
Digital Filters (Playback)	Toy Camera, Monochrome (filter, toning), Retro, Color, High Contrast, Soft, Extract Color, Starburst, Sketch, Watercolor, Fisheye, Pastel, Slim, Miniature, HDR, Posterization, Base Parameter Adj, Custom
File Formats	
Still	RAW (PEF, DNG), JPG (EXIF 2.21), DCF 2.0 compliant, DPOF, PIM III
Movie (Compression)	AVI (Motion JPG)
Custom Functions	
Functions Available	27
File Storage (Based on 1GB Memory)	
16MP (RAW)	28
16MP (Premium Quality)	65
16MP (Best Quality)	105
16MP (Better Quality)	186
16MP (Good Quality)	368
1080p (25 fps)	Best (00:01:19); Better (00:01:44); Good (00:02:25)
System Requirements	
Windows	Windows XP (SP3 or later), Windows Vista, Windows 7 (can be run as 32-bit in x64 Win); USB 2.0 port
Mac	Mac OS X 10.4.11, 10.5 or 10.6; USB 2.0 port

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Language Support

Languages

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

Power Supply

Power Source

Rechargeable Li-Ion battery D-LI90, D-BG4 Battery Grip (optional) for 2nd D-LI90 battery or 6 x AA batteries

Recordable Images

Approx. 980 (approx. 740 with 50% flash, CIPA)

Playback Time

Approx. 440 min

Movie Recording Time

Approx. 25 min (automatic overheat shutdown protection)

AC Adapter

Yes (optional)

Physical Specifications

Construction Materials

Magnesium alloy shell over stainless steel chassis

Weather Resistant

Yes (77 weather protection seals)

Operating Temperature

14 to 104°F (-10 to 40°C)

Dimensions (WxHxD)

5.2 x 3.8 x 2.9" (132 x 96.5 x 73.7mm)

Weight (Body Only)

23.3 oz (660.5 g)

Weight (Fully Loaded)

26.1 oz (739.9 g)