Type	Digital SLR
Sensor	Type: CMOS w primary color filter and integrated Shake/Dust Reduction sensor movement system Size: 23.5 x 15.6mm Color depth: 8 bits/channel JPG, 14 bits/channel RAW Effective pixels: 23.35 MP Total pixels: 24.71 MP Recorded resolutions Still: Jpeg – L (24M：6016x4000), M (14M: 4608x3072), S (6M: 3072x2048), XS (2M: 1920x1280) RAW – L (24M：6016x4000) Quality levels: ★★★ Best, ★★ Better, ★ Good, RAW (14-bit) Movie (resolution/FPS): Full HD (1920x1080, 60i/50i/30p/25p/24p) HD (1280x720, 60p/50p/30p/25p/24p) Dust Removal: DR II (ultrasonic vibration to low pass filter) with Dust Alert function
Lens	Type/construction: PENTAX KAF2 bayonet stainless steel mount Usable lenses: PENTAX KAF3, KAF2, KAF, and KA (K mount, 35mm screwmount, 645/67 med format lenses useable w adapter and/or restrictions) SDM function: Yes Power zoom function: Yes (power zoom only)
Focus System	Type: SAFOX 11 TTL phase-matching - 27 point (25 cross type focus points in the center) Focus modes: AF Single (w focus lock, focus/shutter priority selectable), AF Continuous (w focus/FPS priority selectable), Manual Focus point adjustment: Spot, Select, Expanded Area (S, M, L), Zone select, Auto (27 AF points)

Viewfinder	Type: Pentaprism Coverage (field of view): 100% Magnification: 0.95X (w 50mm F1.4 at infinity) Standard focusing screen: Natural-Bright-Matte III (interchangeable) Diopter adjustment: -2.5m to 1.5m Depth of field preview: Optical (diaphragm stop-down), Digital
LCD Monitor	Type: 3.2” TFT color LCD with brightness/saturation/color adjustment AR coating and air-gapless glass. Resolution: 1037K dots Wide angle viewable: Yes
Flash	Type: Retractable P-TTL popup flash Guide number: 13m (ISO 100) Coverage: 28mm wide angle (equiv 35mm) Flash modes: Auto, On, Redeye, Slow Sync, Slow Sync + Redeye, Trailing Curtain Sync, High-speed sync, Wireless, Manual Flash exposure compensation: -2 to 1 EV (1/2 steps)
External Flash	Type: Hotshoe (P-TTL), high speed sync and wireless w PENTAX dedicated flash, X-Sync Socket Synchronization speed: 1/180 sec
Storage Media	Internal memory: n/a Removable memory: SD, SDHC, SDXC, EyeFi, FLU
Interfaces	Ports: USB 3.0 hi-speed, AV out, HDMI out, DC in, cable switch, 3.5mm stereo microphone, X-sync socket Video out: HD (via HDMI), NTSC, PAL Printer interfaces: n/a
Power Supply	Power source: Rechargeable Li-Ion battery D-LI90, D-BG5 Battery Grip (optional) with trays for 2nd D-Li90 battery or 6x AA

	batteries Recordable images: Approx 720 (approx 560 w 50% flash, CIPA) Playback time: Approx 370 min Movie recording time: Approx 25 min (automatic overheat shutdown protection) AC adapter available: Yes - (optional) K-AC132
Physical Specs	Body dimensions (W x H x D): 5.17in x 3.94in x 3.05in Body weight Without battery or removable memory: 25.2 oz Loaded and ready: 28.2 oz Construction material(s): Magnesium alloy shell over metal chassis Weather resistant: Yes (92 special sealing parts) Operating temperature: 14-104°F (-10 to 40°C)
Language Support	English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Chinese (Simplified/Traditional), Japanese
Image Stabilization	Type: Sensor-Shift Shake Reduction with rotational compensation (3.5EV TBD) Electronic level function: Yes, verification via viewfinder and LCD panel
Metering System	Type: TTL open aperture metering using 86K pixel RGB sensor Sensitivity range: EV -3 to 20 (ISO 100, 50mm F1.4) Multi-Segment: Yes Center weighted: Yes Spot: Yes Exposure compensation: +/- 5 EV (1/3 and 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 100-51200 (1, 1/2, 1/3 steps), Auto ISO range selectable, Bulb mode: Auto ISO n/a Manual: 100-51200 (1, 1/2, 1/3 steps),

White Balance	AUTO WB, Multi Auto WB, Daylight, Shade, Cloudy, Fluorescent Light (D: Daylight Color, N:Daylight White, W:Cool White, L:Warm White), Tungsten Light, Flash, CTE, Manual mode(s): Yes, Manual WB (up to 3 settings), Color Temperature Configuration (up to 3 settings), Copying the white balance setting of a captured image* WB fine adjustment available in all modes
Shutter	Type: Electronically controlled, vertical-run, focal plane shutter Shutter speed: 1/8000 to 30 sec (1/3 or 1/2 EV steps), Bulb
Capture Modes	Mode selection: Green, Hyper Program (P), Sensitivity Priority (Sv), Shutter Priority (Tv), Aperture Priority (Av), Shutter & Aperture Priority (TAv), Metered Manual, Bulb, X-Speed, USER (3 presets). Custom Image Modes: Bright, Natural, Portrait, Landscape, Vibrant, Radiant, Muted, Bleach Bypass, Reversal Film, Monochrome, Cross Processing, HDR: Auto, HDR1, HDR2, HDR3, Exposure Bracket Value adjustable, Automatic composition correction function - All include gamut radar and fine adjustment of saturation, hue, high/low key, contrast, and sharpness (regular and fine adjustment scales). Monochrome mode includes adjustments for filter effects (green, yellow, orange, red, magenta, blue, cyan, infrared), toning (sepia, warm/cool), high/low key, contrast, and sharpness (regular, fine, and extra sharp adjustment scales). Green simplified mode available: Yes P/A/S/M/B: P, A, S, M, B (extended modes Sv, TAv) Date stamp: n/a Digital filters (capture): Extract Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome Data record: Folder name (standard, date), file name (standard, customizable), embed copyright.
Drive Modes	Mode selection: Single, Continuous (H,M,L), Self-Timer (12s, 2s), Remote (0s, 3s, continuous), Exp. Bracketing (standard, timer, remote), Mirror up (standard, remote), HDR Capture (3 shots at 1EV, 2EV, or 3EV, 3 blend settings plus Auto, pixel alignment) Multi-exposure: Composite Mode (Additive/Average/Bright) Number of Shots (2 to 2000 images), Interval 2000 shots, 2 sec to

	24 hrs, time delay available) Continuous FPS (JPG ★★★) - Continuous H: Approx 8.3 FPS (60 JPG, 23 RAW) - Continuous M: Approx 4.5 FPS (100 JPG, 32 RAW) - Continuous L: Approx 3.0 FPS (200 JPG, 52 RAW) Self-timer: Yes (12s, 2s) Remote control: Yes, infrared (0s, 3s, continuous), cable switch
Playback Modes	Mode selection: Single frame, multi-image display (6,12, 20, 35, 80 segmentation), display magnification (up to 16, 100% display and quick magnification available), rotating, histogram (Y histogram, RGB histogram), bright area warning, Auto Image Rotation, detailed info, Copyright Information (Photographer, Copyright holder), Folder Display, Calendar Filmstrip Display, Slide Show Mode pallet: Image Rotation, Digital Filter, Resize, Cropping, Slideshow, Save as Manual WB, RAW Development, Index Print, Protect, Movie Edit, Extract JPG from Movie, Magnification: up to 16X, scrollable, quick magnification. Digital filters (playback): Base Parameter Adj, Extract Color, Toy Camera, Retro, High Contrast, Shading, Invert Color, Unicolor Bold, Bold Monochrome, Tone Expansion, Sketch, Water Color, Pastel, Posterization, Miniature, Soft, Starburst, Fish-eye, Slim
File Formats	Still: RAW (PEF, DNG), JPG (EXIF 2.30), DCF 2.0 compliant Movie: MPEG-4 AVC/H.264（MOV) - JPEG(AVI) for internal movie record
Custom Functions	Functions available: 27
Computer Requirements	*For device connectivity. Bundled software requirements may vary. Windows: Windows 8 (32 bit/64 bit) / Windows 7 (32 bit/64 bit) / Windows Vista (32 bit/64 bit), Windows XP SP3 (32 bit) Mac: Mac OS X 10.8 / 10.7 / 10.6

Battery Life	Power source: Rechargeable Li-Ion battery D-LI90, D-BG5 Battery Grip (optional) with trays for 2nd D-Li90 battery or 6x AA batteries Recordable images: Approx 720 (approx 560 w 50% flash, CIPA) Playback time: Approx 370 min Movie recording time: Approx 25 min (automatic overheat shutdown protection) AC adapter available: Yes - (optional) K-AC132
Dimensions	5.17in x 3.94in x 3.05in
Weight	Body weight Without battery or removable memory: 25.2 oz Loaded and ready: 28.2 oz
Operating Temperatures	Operating temperature: 14-104°F (-10 to 40°C)
Operating Humidity	Weather resistant: Yes (92 special sealing parts)