

CAMERA HARDWARE

MODEL: K20D
 TYPE: Digital SLR
 PRODUCT CODE:
 Body Kit: 19381, UPC: 027075130814

SENSOR

Type: CMOS with primary color filter and integrated Shake/Dust Reduction sensor movement system
 Size: 23.4 x 15.6mm
 Color depth: 8 bits/channel JPG, 12 bits/channel RAW
 Effective pixels: 14.6 MP
 Total pixels: 15.1 MP
 Recorded resolutions: 4672x3104 (14.6M), 3872x2592 (10M), 3008x2000 (6M), 1824x1216 (2M)
 Quality levels: ★★★★★ Premium, ★★★ Best, ★★ Better, ★ Good
 Dust Removal: Image sensor movement combined with SP coating

LENS MOUNT

Type/construction: Pentax K_{AF2} bayonet stainless steel mount
 Usable lenses: Pentax K_{AF2}, K_{AF}, and K_A (K mount, 35mm screwmount, 645/67 med format useable w/ adapter and/or restrictions)
 SDM function: YES
 Power zoom function: YES

FOCUS SYSTEM

Type: TTL phase-matching 11 point wide autofocus system (SAFOX VIII)
 Focus modes: AF Single (w focus lock), AF Continuous, Manual
 Focus point adjustment: Auto, User-selectable, Center
 AF assist: YES, via built-in flash

VIEWFINDER

Type: Pentaprism
 Coverage (field of view): 95%
 Magnification: 0.95x (w/ 50mm f/1.4 at infinity)
 Standard focusing screen: Natural-Bright-Matte II
 Diopter adjustment: -2.5 to 1.5
 Depth of field preview: Optical diaphragm stop down, Digital, Live View (FOV 100%, magnification 4x/8x available, grid pattern available)

LCD MONITOR

Type: 2.7" TFT color LCD monitor, adjustable brightness/color, Live View available (TTL by image sensor, 100% FOV)
 Resolution: Approx 230,000 dots
 Wide angle viewable: YES, approx 160° horizontal/vertical

BUILT-IN FLASH

Type: Retractable P-TTL popup flash
 Guide number: 13 (100/m)
 Coverage: 28mm wide angle (equivalent to 35mm)
 Flash modes: on, redeye, slow sync, slow sync + redeye, trailing curtain sync, wireless
 Flash exposure compensation: -2 to +1 EV in 1/2 steps

EXTERNAL FLASH

Type: Hot Shoe (P-TTL, high speed sync available), Wireless with PENTAX dedicated flash, X-Sync socket
 Synchronization speed: 1/180s

STORAGE MEDIA

Internal memory: n/a
 Removable memory: SD, SDHC

INTERFACES

Ports: USB 2.0 hi-speed, video out, DC input, cable switch, X-Sync socket
 Video out: NTSC, PAL
 Printer interfaces: PictBridge

POWER SUPPLY

Power source: Rechargeable Li-Ion battery D-Li50, BG2 Battery Grip (optional) for second D-Li50 battery
 Recordable images: Approx 740 (approx 530 with 50% flash)
 Playback time: Approx 330 min
 AC adapter available: YES (optional)

PHYSICAL SPECIFICATIONS

Body dimensions (W x H x D): 5.6 x 4.0 x 2.76"
 Body weight
 Without battery or removable memory: 25.2 oz
 Loaded and ready: 28.2 oz
 Construction material(s): Reinforced plastic polymer shell surrounding a rugged stainless steel chassis
 Operating temperature: 32-104°F

LANGUAGE SUPPORT

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

IMAGE CAPTURE

IMAGE STABILIZATION

Type: Body-based, sensor shift Shake Reduction (4 stops maximum)

METERING SYSTEM

Type: TTL open-aperture, 16 segment metering
 Sensitivity range: EV 0-21 (ISO 100, 50mm f/1.4)
 Multi-segment: YES, 16 segments
 Center weighted: YES
 Spot: YES
 Exposure compensation: +/- 3EV (1/2 steps), +/- 2EV (1/3 steps)
 Exposure lock: YES
 Exposure bracketing: YES, 3 or 5 frames, up to +/- 2EV (1/2 or 1/3 steps)

ISO SENSITIVITY

Auto: 100-3200 ISO (1, 1/2, 1/3 steps), Bulb mode up to ISO 1600, expanded range ISO available to ISO 6400
 Manual: 100-3200 ISO (1, 1/2, 1/3 steps), Bulb mode up to ISO 1600, expanded range ISO available to ISO 6400

WHITE BALANCE*

Auto preset modes: Auto, Daylight, Shade, Cloudy, Tungsten, Fluorescent (W, D, N), Flash, Color Temperature
 Manual mode(s): YES
 * WB fine adjustment available

SHUTTER

Type: Electronically controlled, vertical run, focal plane shutter
 Shutter speed: 1/4000 to 30 sec, bulb available

CAPTURE MODES

Mode selection: Green, Program, Sensitivity Priority, Shutter Priority, Aperture Priority, Shutter and Aperture Priority, Metered Manual, X Speed, Bulb, USER
 Green simplified mode available: YES
 P/A/S/M/B: P, A, S, M, B (extended modes include Sv, Tv)
 Date stamp: n/a
 Digital filters (capture): Custom Image Function includes Bright, Natural, Portrait, Landscape, and Vibrant modes, each with gamut radar and fine adjustment of saturation, hue, contrast, and sharpness. Monochrome includes adjustment for filter effects (green, yellow, orange, red, magenta, blue, cyan, infrared), toning (sepia warm/cool), contrast, and sharpness (regular and fine adjustment scales).
 Data record: Folder Name (standard, date), File Name (standard, customizable)

DRIVE MODES

Mode selection: Single, Continuous (Hi, Lo), Burst (1.6M, JPG), Self-Timer (12s, 2s), Remote (0s, 3s), Remote Continuous, Auto Bracket, Extended Bracket, Multi-Exposure, Interval
 Continuous FPS:
 - 3.0 FPS (38 JPG and Continuous Hi, 14 RAW PEF, 16 RAW DNG)
 - 2.3 FPS (unlimited JPG and Continuous Lo, 14 RAW PEF, 16 RAW DNG)
 - 20 FPS in Burst mode (115 at 1.6M, ★★★, JPG)
 Self-timer: YES (12s, 2s)
 Remote control: YES, infrared (0s, 3s, continuous) and cable switch supported

PLAYBACK MODES

Mode selection: One shot, two shots, index (4, 9, or 16 thumbnails), magnification, image rotation, folder view, slideshow, histogram, bright/dark indicators, RAW to JPG
 Magnification: Up to 32x, scrollable
 Digital filters (playback): B&W (4), Sepia (3), Color (18), Color Extract (6), Soft (3), Illustration, HDR (3), Slim (+/- 8), Brightness (+/- 8)

FILE FORMATS

Still: RAW PEF/DNG, JPG (EXIF 2.21), DCF 2.0 (design rule for camera file system), DPOF, [Print Image Matching III](#)

CUSTOM FUNCTIONS

Functions available: 36

FILE STORAGE MATRIX (BASED ON 1GB MEMORY)

JPG	★★★★	★★★	★★	★
4672x3104 (14.6M)	68	117	212	411
3872x2592 (10M)	101	168	296	616
3008x2000 (6M)	176	285	491	915
1824x1216 (2M)	461	737	1233	2238
RAW				
4672x3120 (14.6M)	40			

COMPUTER SYSTEM REQUIREMENTS*

*For device connectivity. Bundled software requirements may vary.
 Windows: Windows XP/Vista, USB port
 Mac: MacOS 10.2 or later, USB 2.0 port

KIT INCLUSIONS

K20D body, USB Cable I-USB17, Video Cable I-VC28, Rechargeable Li-Ion Battery D-Li50, Battery Charge Cradle D-BC50, AC Plug Cord, Strap O-ST53, Hotshoe Cover FK, Eyecup FP, Body Mount Cover, Finder Cap for ME, Focusing Screen LF-80 Frame Matte, Bottom Cap K10D, Software CD-ROM S-SW74/75

OPTIONAL ACCESSORIES

AC Adapter Kit D-AC50, Battery Charger Kit K-BC50, Battery Grip BG2, Cap D-BG2 (for battery grip), Focusing Screen LL-80 AF Divided Matte, Focusing Screen LI-80 AF Scale Matte, Remote Control F, Cable Switch CS-205, Magnifying Eyepiece O-ME53, DSLR Gadget Bag, DSLR Sling Bag