# **CAMERA HARDWARE**

MODEL: K-7 TYPE: Digital SLR PRODUCT CODE:

Body Kit: 17811, UPC: 027075155145

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: 15.07 MP Recorded resolutions

Still: 14M 4672x3104, 10M 3936x2624, 6M 3072x2048, 2M 1728x1152 Movie (resolution/FPS): 1280x720p30, 1536x1024p30, 640x416p30 Quality levels: ★★★★ Premium, ★★★ Best, ★★ Better, ★ Good

Dust Removal: Supersonic vibration to low pass filter

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

Type: TTL phase-difference 11 point (9 cross) 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 dedicated AF assist lamp with SAFOX VIII+ system

## VIEWFINDER

Type: Pentaprism Coverage (field of view): 100% Magnification: 0.92X (w/ 50mm F1.4 at infinity)

Standard focusing screen: Natural-Bright-Matte III

Diopter adjustment: -2.5 to 1.5

Depth of field preview: Optical (diaphragm stop down), Digital

Type: 3.0" TFT IPS (In Plane Switching) color LCD with brightness/color adjustment and AR coating

Resolution: 921,000 dots Wide angle viewable: Yes

Type: TTL by CMOS image sensor

Field Of View: 100%

Display Modes: Magnification (2-6X AF, 2-10X MF), grid pattern overlay

Autofocus: Yes, contrast w/ face detection, contrast, phase difference

# **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

### XTERNAL FLASH

Type: Hotshoe (P-TTL, high speed sync available), wireless with PENTAX dedicated flash, X-sync socket

Synchronization speed: 1/180 sec

### STORAGE MEDIA

Internal memory: n/a

Removable memory: SD, SDHC

Ports: USB 2.0 hi-speed, AV out, HDMI out, DC in, cable switch, 3.5mm stereo microphone

Video out: HD (1080i30, 720p30, 480p30), NTSC, PAL

Printer interfaces: n/a

## OWER SUPPLY

Power source: Rechargeable Li-Ion battery D-LI90, D-BG4 Battery second D-LI90 battery or 6X AA batteries
Recordable images: Approx 980 (approx 740 w/ 50% flash, CIPA)
Playback time: Approx 440 min
AC adapter available: Yes (optional)
PHYSICAL SPECIFICATIONS
Body dimensions (MV N III D) 5 4 4 6 6 6 7 7 7 Power source: Rechargeable Li-Ion battery D-LI90, D-BG4 Battery Grip (optional) for

Body dimensions (W x H x D): 5.1 x 3.8 x 2.9"

Body weight Without battery or removable memory: 22.9 oz

Loaded and ready: 26.5 oz

Construction material(s): Magnesium alloy shell over stainless steel chassis Operating temperature: 14-104°F (-10 to 40°C)

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

# **IMAGE CAPTURE**

### **IMAGE STABILIZATION**

Type: Sensor-shift Shake Reduction with rotational compensation (4 stops max) Electronic level function: Yes, verification via viewfinder and top LCD panel

Type: TTL open-aperture 77 segment metering Sensitivity range: EV 0 to 22 (ISO 100, 50mm F1.4) Multi-segment: Yes, 77 segments

Center weighted: Yes

Spot: Yes

Exposure compensation: +/- 5 EV (1/3 and 1/2 steps)

Exposure lock: Yes

Exposure bracketing: Yes, 3 or 5 frames, up to +/- 2 EV (1/2 or 1/3 steps)

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

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

Auto preset modes: Auto, Daylight, Shade, Cloudy, Fluorescent (D, N, W, L), Tungsten, Flash, CTE

Manual mode(s): Yes, manual and 3 color temperature selections available WB fine adjustment available in all modes

### SHUTTER

Type: Electronically controlled, vertical run, focal plane shutter Shutter speed: 1/8000 to 30 sec, bulb

### **CAPTURE MODES**

Mode selection: Green, Program (P), Sensitivity Priority (Sv), Shutter Priority (Tv), Aperture Priority (Av), Shutter and Aperture Priority (TAv), Metered Manual, Bulb, X-Speed, USER, Movie

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): Custom Image Function includes Bright, Natural, Portrait, Landscape, Vibrant, and Muted modes, each with gamut radar and fine adjustment of saturation, hue, high/low key, contrast, and sharpness (regular and fine adjustment scales). Monochrome mode includes adjustment for filter effects (green, yellow, orange, red, magenta, blue, cyan, infrared), toning (sepia warm/cool), high/low key, contrast, and sharpness (regular and fine adjustment scales). Other capture filters include Toy Camera, Retro, High Contrast, Extract Color, Soft Focus, Starburst, Fisheye, Custom Filter.

Data record: Folder name (standard, date), file name (standard, customizable), embed copyright

Mode selection: Single, Continuous (Hi, Lo), Self-Timer (12s, 2s), Remote (0s, 3s, continuous), Bracketing (standard, timer, remote), Mirror Lockup (standard, remote), HDR Capture, Multi-Exposure, Interval

Continuous FPS

- 5.2 FPS (40 JPG Continuous Hi, 15 RAW PEF, 14 RAW DNG)

- 3.3 FPS (unlimited JPG Continuous Lo, 17 RAW PEF/DNG)

Self-timer: Yes (12s, 2s)

Remote control: Yes, infrared (0s, 3s, continuous) and cable switch

# AYBACK MODES

Mode selection: One Shot (no data, basic data, full data, color channel histogram), Multi Image Display (4, 9, 16, 32, 81 thumbnails), Calendar Filmstrip, Folder, Magnification, Select & Delete, Movie Playback (no data, basic data, full data)

Mode pallet: Image Rotation, Digital Filter, Resize, Cropping, Slideshow, Save as Manual WB, RAW Development, Index Print, Image Comparison, Protect, **DPOF** 

Magnification: Up to 32X, scrollable

Digital filters (playback): Toy Camera, Monochrome (filter effects, toning), Retro, Color (6), High Contrast, Soft Focus, Extract Color (6), Starburst, Water Color, Fisheye, Pastel, Slim, Miniature, HDR, Base Parameter Adj, Custom Filter

Still: RAW (PEF, DNG), JPG (Exif 2.21), DCF 2.0 (design rule for camera file system), DPOF, Print Image Matching III Movie (compression): AVI (Motion JPG)

### **CUSTOM FUNCTIONS**

Functions available: 37

### FILE STORAGE MATRIX (BASED ON 1GB MEMORY)

JPG	****	***	**	*
14M	73	117	206	408
10M	102	163	289	564
6M	167	267	468	902
2M	516	805	1373	2518
RAW				
14M	40			
MOVIE (H:M:S)	***	**	*	
1280x720p30	0:02:21	0:03:20	0:04:41	
1536x1024p30	0:01:51	0:02:36	0:03:40	
640x416p30	0:07:59	0:11:11	0:15:29	

## COMPUTER SYSTEM REQUIREMENTS\*

\*For device connectivity. Bundled software requirements may vary. Windows: Windows XP/Vista, USB 2.0 port