

# PENTAX Digital cameras

# K-7



## What counts are the results: make perfection your passion.

- > New generation CMOS sensor (23.4 x 15.6mm) with 15 MP for better noise reduction and extended dynamic range with shade and brightness compensation
- > A consecutive shooting frame rate of 5.2fps is obtainable through 4-channel output and new PRIME II processor
- > Extensive functions for improvement of the dynamic range with options for High key and Low key corrections. Additionally, the in-camera HDR recording function blends 3 frames (+ 0 -) for beautifully detailed high contrast images.
- > Faster focusing through new algorithms and AF assist light.
- > Camera housing of magnesium alloy provides extreme stability.
- > 3" wide angle monitor with 921,000 dots and unique "AR Coating" to protect the monitor against scratching.
- > Large 100% field of view viewfinder with a new, brighter focusing screen for perfect image viewing.
- > Live View for optimal picture composition, with Histogramme, Autofocus and Face Recognition
- > HD Movie for film sequences up to 25 minutes with a maximum resolution of 1536 x 1024 pixels and 30fps., with built-in microphone (external stereo microphone available).
- > Optimised exposure metering with 77-segment matrix meter.
- > Camera-integrated Shake Reduction is totally compatible with any lens and provides up to an additional 4EV shooting range.
- > Ultrasonic system for cleaning the photographic sensor provides improved dust removal.
- > Splash and dust resistant thanks to 77 independent seals around the body. Operational temperature range down to -10C.
- > Many new creative tools including Fisheye, Pastel, Water Colour and many other colour filters for in-camera effects and choice of 3:2, 4:3, 16:9 or 1:1 aspect ratios.

Code-No. K-7	17531
Barcode	0027075150263

Standard accessories	Code-No.
AV Cable I-IVC7	39552
USB Cable I-USB7	39551
AC Cable D-CO2E	39475
Battery loading station D-BC90	39831
Li-Ion battery D-LI90	39830
Shoulder strap O-ST53	39323
Body cap	31016
Eyepiece cap ME	31011
Eyecup FR	30200
Accessory shoe cover FK	31040
Software S-SW90	
Delivered without lens	

### Optional accessories



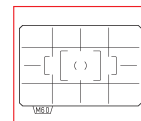
Code No. 39363  
AC Mains Adapter Kit



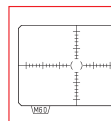
Code No. 39834  
Battery Charging Kit



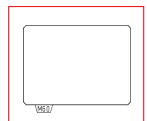
Code No. 39846  
D-BG4 Battery Grip with portrait format shutter release



Code No. 38579  
Focusing screen ML-60, latticed



Code No. 38580  
Focusing screen MI-60, scaled



Code No. 38581  
Focusing screen ME-60 no markings



Code No. 30150  
Viewfinder loupe



Code No. 37377  
IR Remote Control F



Code No. 37248  
Cable Release CS 205



Code No. 30333  
AF-360 FGZ Flash with case



Code No. 30425  
AF-540 FGZ Flash with case



Code No. 39357  
Sensor Cleaning Kit



Code No. 21650  
smc PENTAX DA\* 16-50 mm / 2,8 ED AL [IF] SDM



Code No. 21660  
smc PENTAX DA\* 50-135 mm / 2,8 ED [IF] SDM



Code No. 21750  
smc PENTAX DA\* 60-250 mm / 4,0 ED [IF] SDM



Code No. 21880  
smc PENTAX DA 18-55 mm / 3,5~5,6 ED AL (IF) WR



Code No. 21870  
smc PENTAX DA 50-200 mm / 4,0~5,6 ED WR



Code No. 21740  
smc PENTAX DA 17-70 mm / 4,0 AL [IF] SDM

# PENTAX

# TECHNICAL DATA

Additional information available at [www.pentax.co.uk](http://www.pentax.co.uk)

## Sensor

- 15.07 Megapixels – total  
14.6 Megapixels – effective  
23.4x15.6mm CMOS sensor with Primary Colour Filter
- Colour depth: Bit (JPEG) or 12 Bit (RAW)
- Resolution:  
JPEG: [14M] 4672 x 3104 pixels, [10M] 3936 x 2624 pixels,  
[6M] 3072 x 2048 pixels, [2M] 1728 x 1152 pixels  
RAW: [14M] 4672 x 3104 pixels  
Movie: [1.6M] 1536 x 1024 pixels (3:2), HD Movie 1280 x 720 pixels (16:9), VGA [0.3M] 640 x 416 pixels (3:2)
- Sensitivity: Automatic, Manual selectable  
ISO 100 – 3,200. Expandable to ISO 6,400

## Image Formats

- RAW (PEF, DNG), JPEG (Exif 2.21 and DCF 2.0)  
JPEG compression: JPEG Baseline in quality steps of  
\*\*\*\*Premium, \*\*\*Optimal, \*\*Better, \*Good

## Memory

- SD Card, SDHC Card up to 32GB (as of May 2009)
- RAW and JPEG can be recorded simultaneously

## Lens

- PENTAX KAF2 bayonet
- Compatible with PENTAX KAF3-, KAF2-, KAF- and KA- mounts.  
Support for KAF Power Zoom functions  
K-mount lenses usable with restrictions. M42, 645 and 67 lenses with adapters usable with restrictions. (Due to the high resolution of camera and lack of electronic contacts on the lenses no general statement can be made regarding full compatibility of functions.)

## Viewfinder

- Non-interchangeable Pentaprism finder
- Interchangeable "Natural Bright III" focusing screen
- Viewing area 100% with finder magnification of 0.92x  
(with 50 mm f/1.4 lens at infinity, -1m-1)
- Viewfinder indications below image area
- Dioptre correction -2.5 dpt. – +1.5 dpt.
- Electronic level indicator

## Monitor

- 3.0" TFT Monitor with 921,000 dots, with brightness adjustment and colour calibration
- Wide viewing angle of 170°
- Scratch resistant with AR Coating
- Indication of most important camera functions
- Image review after recording: Single image, two images for comparison, Histogramme, recording data and Hot Spot Warning, 32X enlargement, Calendar view, Index view (4, 9, 16, 32 or 81 thumbnail images), Slide show, Image rotation
- Digital preview for confirming WB and exposure
- Status indication on monitor is modified with the changing of camera settings

## Live View

- TTL via image sensor, 100% field of view
- Contrast AF (with Face Recognition)
- Magnification (2x, 4x, 6x in AF mode, additionally 8x, 10x in MF mode)
- Grid display optional

## Focus

- TTL Phase Matching autofocus system with 11 focussing points (SAFOX VIII+) with indication in finder
- AF Single with focus lock, Continuous AF or Predictive AF
- Focussing point selectable between automatic or manual choice, spot focussing
- Green AF-Assist on camera front
- Fully compatible AF and SDM (Supersonic Dynamic Motor) lenses
- Focus correction

## Metering

- 77 segment TTL open aperture matrix metering coupled with AF and lens information, switchable between Matrix metering, Centre weighted and Spot metering. Operational range: EV 0 – EV 22
- Electronically controlled vertical-run focal plane shutter  
Shutter speeds: Automatic: 1/8,000 – 30 Sec. (stepless)  
Manual: 1/8,000 – 30 Sec. (in 0.3EV steps) and Bulb  
Flash sync: 1/180 Sec.
- Green Mode, Programmed automatic (Hyperprogram), Sensitivity Priority, Aperture Priority, Shutter Priority, Shutter/Aperture Priority, Manual, flash sync, long exposure, User Programme
- Exposure compensation: ± 5EV in 1/2 or 1/3 EV steps
- Auto bracketing: 3 or 5 exposures in 0.5 or 0.3 EV steps. Additional auto bracketing for contrast, saturation, colour tone, focus, and white balance. Functions as a series with a single press of the shutter release, remote control or self timer
- Exposure memory button

## Flash

- Built-in P-TTL automatic flash with automatic operation in poor lighting conditions
- Manual On / manual Off
- Preflash for reduction of the "Red Eye" effect
- Flash compensation -2 - +1 EV
- GN 13 at ISO 100
- Hotshoe on camera top for use of system flashes, x-sync connector
- High-Speed Synchronisation with appropriate PENTAX flashes
- Coverage 28 mm (equivalent in 35 mm film format)

## Recording parameters

- Various functions available to improve picture dynamics (contrast lightness, darkness) and various parameters can be set for high key and low key corrections. These are adjustable within the scope of the dynamic range or in the colour profiles.  
A special in-camera HDR function is available that blends 3 single photographs into a perfectly rendered final image.
- 6 selectable colour profiles, as well as black-and-white function
- Various colour and special effects filters for recording ("Toy Camera", Retro, High contrast, Extract Colour, Star, Fisheye) and for editing (B&W, Colour, Slim, Water Colour, Pastel, Miniature, HDR, Base Tweaking. A total of 16 digital filters with 135 options.)
- White Balance: Automatic or manual: Daylight, Shade, Cloudy, Tungsten, Neon (W, N, D, L), Flash, CTE, manual balance, fine control
- Drive Modes: Single, Series (Hi/Low): 5.2fps. to 40 images in JPEG (Hi), 14 images in RAW (DNG), Interval to 99images/day.
- Self-timer with 2 or 12 sec. delay, IR Remote Control with 0 or 3 sec. delay. Mirror lock-up for vibration free shooting on a tripod, IR Remote Control.
- PENTAX "Noise Control" reduces image noise for ISO 200 and above
- Individual files names with copyright information
- In-camera treatment of pictures (RAW development, filter, etc.)
- New ultrasonic sensor cleaning system coupled with dust warning
- 37 options for individualising camera functions
- Menu languages include English, French, German, Dutch, Spanish, Portuguese, Italian, Turkish

## Video Functions

- Recording of HD video, up to 25 min. or 4GB, with sound (connection for stereo microphone)

## Print Functions

- DPOF (Digital Print Order Form), PRINT Image Matching III, PictBridge

## Power requirements

- D-BG4 Battery Grip optionally available. Usable with Li-Ion or 6x AA batteries
- Battery capacity (under CIPA testing standards)  
approx. 980 images  
approx. 740 images with 50% flash use  
approx. 440 minutes playback

## Connections

- USB 2.0 (High Speed)
- AV (compatible with NTSC and PAL)
- Cable release
- HDMI connection
- Stereo microphone

## System requirements

- Integrated USB connector, USB 2.0
- PC: Windows XP, Windows Vista  
CPU: Pentium IV or newer (Intel Core recommended)  
Memory: minimum 1GB (2GB or more recommended, 3GB or more recommended for Windows Vista)  
Free hard drive space: 1GB (2GB recommended)  
Monitor resolution: 1,280 x 1,024 pixels or more
- Mac: OS X 10.3 – 10.5 or higher  
CPU: POWER PC G5 or newer (Intel Core recommended)  
Memory: minimum 1GB (2GB or more recommended)  
Free hard drive space: 1GB (2GB or more recommended)  
Monitor resolution: 1,280 x 1,024 or more  
Additional: Quick Time 7

## Software

- PENTAX Digital Camera Utility 4  
Photo browser and RAW converter

As of 20.05.2009. All data reserved and subject to change without notice.

# PENTAX