

PENTAX DIGITAL SLR

# PENTAX K-x



## -X TREMELY COMPREHENSIVE AND EASY

- **12.3 MEGAPIXEL CMOS SENSOR** - 23.6x15.8 MM, HIGH-SPEED PRIME II IMAGING ENGINE
- **HDTV-PROPORTION MOVIE** 1280x720 PIXELS AT 24 FPS
- **LIVEVIEW FUNCTION**, WITH FACE DETECTION OF UP TO 16 FACES AND DIRECT AF ON A **2,7" LCD SCREEN**, 230 KDOTS
- **IN-BODY** SHAKE REDUCTION
- **4.7 FPS HIGH-SPEED CONTINUOUS SHOOTING**
- **SHUTTER SPEED 1/6000 SEC MAX.**
- **SENSITIVITY RANGE OF ISO 100 TO 12 800**
- **FAST AUTOFOCUS, WITH 11 SELECTABLE FOCUS POINTS**
- **VERY COMPACT DESIGN:** 122.5 x 91.5 x 67.5 MM
- **DUST REMOVAL (DR) SYSTEM**
- **DYNAMIC RANGE ENHANCEMENT (DRE)**
- ENERGY EFFICIENT CIRCUIT DESIGN FOR **LONGER BATTERY LIFE** (1100 SHOTS ON ONE CHARGE)
- CREATIVE AND EASY FUNCTIONS: **AUTOPICTURE** MODE, DIGITAL **FILTERS**, **CUSTOM IMAGE** MODE, **HDR** (HIGH DYNAMIC RANGE) FUNCTION, **CROSS PROCESS** MODE
- **AVAILABLE IN 4 COLOURS:** NAVY BLUE, WHITE, RED AND BLACK

### Black K-x — body only

Code No. 16701 EAN 0027075159433

### Black K-x + DA 18-55mmL

Code No. 16301 EAN 0027075159440

### Black K-x + 18-55 DAL + 50-200 DAL

Code No. 16201 EAN 0027075159457

### White K-x + White 18-55 DAL

Code No. 16302 EAN 0027075159617

### Navy Blue K-x + Black 18-55 DAL

Code No. 16394 EAN 0027075160538

### Red K-x + Red 18-55 DAL

Code No. 16303 EAN 0027075159624

These are European Codes (excl. UK)

## SUPPLIED ACCESSORIES

USB CABLE I-USB7  
4 X LITHIUM AA BATTERIES  
STRAP O-ST53  
SOFTWARE: S-SW99 : PENTAX DIGITAL CAMERA UTILITY 4.0

## OPTIONAL ACCESSORIES No.

DA 55-300MM TELE-LENS	21720
AF200-FG FLASH	30465
O-ME53 MAGNIFYING EYECUP (1.2X)	30150
NEOPRENE CAMERA CASE	50207
LADYS CAMERA BAG	50198
SLR MULTIBAG	50099
KHAKI SLR BAG	50228
CROSSOVER BAG X-LARGE	50199
REMOTE CONTROL F	37377
NEOPRENE STRAP	50151
2.7" PROTECTION FILMS	50121
AC ADAPTER KIT K-AC84H	39761
D-DC84 COUPLER	39693
AV CABLE I-VC28	39262



21720



30465



30150



37377



39761

# TECHNICAL SPECIFICATION — PENTAX K-x

## TYPE

<b>Type</b>	TTL autofocus, auto-exposure digital SLR with built-in retractable P-TTL auto pop-up flash
<b>Lens mount</b>	PENTAX KAF2 bayonet mount
<b>Compatible lenses</b>	Compatible with bayonet mount lenses KAF3, KAF2, KAF, KAF, with power zoom KAF2, K-mount - with restrictions, M42 and medium-format with an adapter with certain restrictions* Compatible with the new generation of ultrasonic lenses (SDM, Super-Direct-drive Motor)

## IMAGE SENSOR

<b>Sensor</b>	CMOS sensor
<b>Sensor size</b>	23.6 x 15.8 mm CMOS sensor with a primary colour filter
<b>Number of pixels</b>	12.9 megapixels (total) - 12.4 megapixels (effective)
<b>Stabilisation system</b>	Sensor shift system (4-stop shutter speed benefit when hand held)
<b>Dust protection</b>	Sensor cleaning by vibration coupled with anti-dust Super-Protect (SP) sensor coating Dust detection system (Dust Alert)
<b>Colour depth</b>	3 x 12 bits in RAW, 3 x 8 bits in JPEG
<b>A/D converter</b>	Image : 12 bits - Video : 10 bits

## RECORDING AND IMAGE FORMATS

<b>Image formats</b>	RAW (Original PEF, DNG) JPEG (Exif 2.21), DCF 2.0 RAW+JPEG simultaneously recordable Possible to convert from RAW to JPEG with in the camera (several image parameters can be changed during conversion)
<b>Image size</b>	Photo : in JPEG : 12M (4288x2848 pixels), 10M (3936x2624), 6M (3072x2048), 2M (1728x1152). Quality levels : compressed JPEG (Good, Better, Best), in RAW : 12M (4288x2848)
<b>Support</b>	Compatible with SD and SDHC (high capacity) memory cards

## VIEWFINDER

<b>Type</b>	Fixed molded penta-mirror
<b>Coverage</b>	96%
<b>Magnification</b>	0.85x (with a 50mm F1.4 lens, infinity, -1m-1)
<b>Eye relief</b>	21.5mm
<b>Dioptr adjustment</b>	-2.5 to 1.5 dioptre
<b>Focussing screen</b>	Natural Bright Matt II focussing screen

## LCD SCREEN

<b>Type</b>	2.7 inch (6.91cm diagonal), 230 000 dots, base colour temperature polysilicone TFT, calibratable screen
<b>Angle of view</b>	Extra-wide angle viewing 170° horizontally and vertically
<b>Coverage</b>	98%
<b>Brightness range</b>	14 settings
<b>Display</b>	Single frame or index screen (4, 9, 16, 36 images), zoom display (max 16x magnification with scroll possible), image comparison, rotating, folder, calendar, slideshow, histogram, file naming option (first 4 letters of file name), Bright/Dark area, resizing, trimming, real-time white-balance setting and preview, histogram

## LIVEVIEW

<b>Enlargement</b>	In AF mode : 2X, 4X, 6X In manual mode : 2X, 4X, 6X, 8X, 10X
<b>Autofocus</b>	Contrast detection, face detection, phase difference detection
<b>Options</b>	Grid pattern, histogram display, blackout/whiteout exposure warning

## VIDEO

<b>Video format</b>	AVI (Motion JPEG)
<b>Video resolution</b>	HD 1280 x 720 pixels—24 frames/sec. Video : 0.9M (1280x720, 16:9), 0.3M (640x416, 3:2)

## EXPOSURE CONTROL

<b>Metering modes</b>	TTL 16 segment metering Choice of multi-zones, centre weighted or spot metering
<b>Metering Range</b>	EV0-20 (Standard output sensitivity ISO100 with 50mm F1.4 lens)
<b>Exposure modes</b>	Program AE, Sensitivity priority AE (Sv), Shutter priority AE (Tv), Aperture priority AE (Av), Metered Manual, Bulb, Video
<b>Picture modes</b>	AutoPicture*, Portrait, Landscape, Macro, Sport, Night Portrait, Flash off
<b>Scene modes</b>	Night scene, Surf & snow, Food, Sunset, Kids, Pets, Candle light, Museum, Concert, Night snapshot
<b>Exposure compensation</b>	+/- 3EV (in increments of 1/2 EV or 1/3 EV)
<b>Exposure bracketing</b>	3 images (in increments of 1/2 EV or 1/3 EV)
<b>Auto exposure lock</b>	This function can be allocated to AF button in Menu
<b>Sensitivity</b>	Auto, Manual: ISO 200-6400 (1EV or 1/2EV steps or 1/3EV steps) Extension to ISO 100 to 12800 possible. Bulb mode: up to ISO1600 .

\* The AutoPicture mode automatically selects the scene mode from : Standard, Landscape, Portrait, Night Portrait, Night scene, Sport, Flower, Candle light

## FOCUSING SYSTEM

<b>Autofocus</b>	SAFOX VIII with TTL phase detection
<b>AF points</b>	11 AF points individually selectable, automatic or centre
<b>AF modes</b>	A: Auto; AF-S: single, with focus-lock; AF-C: continuous; manual available via built-in flash
<b>AF assist</b>	

## SHUTTER

<b>Type</b>	Electronically controlled vertical-run focal plane shutter
<b>Shutter speeds</b>	1/6000 sec. to 30 seconds and Bulb
<b>Flash Synchronization</b>	1/180 sec., P-TTL, high-speed-sync, wireless-sync

## FLASH

<b>Built-in flash</b>	Manual opening, guide number 12 (at 100 ISO/m)
<b>Metering system</b>	Auto P-TTL retractable pop-up flash (RTF)
<b>Flash coverage</b>	Wide-angle lens (equivalent 28mm in 35mm format)
<b>Modes flash</b>	Auto, manual (On/Off), rear curtain sync, slow sync, red eye reduction, high speed sync (with external flash)
<b>Synchronisation flash</b>	1/180 sec, high speed, P-TTL, wireless
<b>Exposure correction</b>	+/- 2EV to +/- 1EV (in increments of 1/2)
<b>External flash</b>	Hot-shoe flash, P-TTL flash sync available with dedicated wireless system, (Wireless, controlled by flash) with dedicated flash.

## INTERFACES

<b>USB</b>	USB 2.0 High-speed,
<b>Video output</b>	AV compatible with NTSC and PAL format
<b>Other</b>	Mains power input (optional AC adapter)

## DRIVE MODES

<b>Modes</b>	Single, continuous (Hi, Lo), Self-timer (2, 12 sec.), Remote control (0, 3 sec.), Auto bracketing, Over-impression
<b>Continuous shooting</b>	High speed: 4.7 fps for 17 images in JPEG or for 5 frames in RAW Low speed: (2 fps in JPEG until the memory card is full, for 11 frames in RAW)
<b>Image tone</b>	Setting to control the rendition of colour (Natural, Bright, Vibrant). Other appropriate options for landscape and portraits . Black and white function with different filter settings and a wide range of colours
<b>Image processing</b>	DRE (Dynamic Range Enlargement) which greatly increases the contrast range of the image for maximum highlight and shadow detail. Noise reduction for long exposures. Noise reduction in high ISO sRVB or Adobe RVB

## WHITE BALANCE

<b>Parameters</b>	Auto, Day, Shade, Cloud, Tungsten, Fluorescent (white, day, neutral, L), Flash, CTE, Manual, Colour temperature (fine tuning available for specific control)
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## OTHERS

<b>Languages</b>	GB, F, D, ES, P, I, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkish, Greek, Russian, Korean, Chinese (Trad./ Simpl.), Japanese
<b>World time</b>	75 cities, 28 time zones
<b>PRIMEII</b>	(Pentax real Image Engine) increases the number of shades of colour and contrast range to better manage the RAW data stored in the pre viewed image.
<b>DDR2 memory</b>	To optimise the processing and transfer of image data (800 MB/s)
<b>Pixels mapping</b>	To control each pixel and store each pixel defects to prevent them damaging the image quality
<b>AF adjustment</b>	To correct the K-x on the optical plane to prevent front and back focusing issues. This adjustment can be made for a specific lens or for all lenses.
<b>Customisation of the RAW button</b>	22 Custom functions
<b>Digital filters</b>	Rec. mode: Toy camera, High contrast, Soft, Star burst, Retro, Extract colour, Fish eye, Custom Playback: Toy camera, High contrast, Soft, Star burst, Retro, Extract colour, Illustration (Pastel, Water colour), Fish Eye, HDR, B&W, Sepia, Colour, Slim, Miniature, Brightness, Base Tweaking, Custom
<b>Other functions</b>	Correction of lens features (distortion and chromatic aberration). Copy right information

## SPECIFICATIONS

<b>Construction</b>	Stainless steel chassis
<b>Dimensions</b>	122.5 (L) X 91.5 (H) X 67.5 (P) mm
<b>Weight</b>	515g body only, 580g loaded and ready (with Lithium batteries)

## POWER SUPPLY

<b>Battery</b>	4 x AA batteries (lithium, alkaline, rechargeable Ni-MH )
<b>Performance</b>	approx 1100 images (with 4 Lithium batteries) or 420 images (with 4 Ni-MH 1900mAh batteries) (shooting with 50% flash) approx 25 min in video mode
<b>Other sources</b>	Optional AC adapter

## SYSTEM'S REQUIREMENTS

<b>PC</b>	Windows XP Home Edition/ Professional or Vista
<b>Macintosh</b>	Mac : OS x 10.3 or more recent

## SOFTWARE

PENTAX Digital Camera Utility 4.0 (PENTAX Photo Browser 3 & PENTAX Photo Laboratory 3)