

PENTAX ► 645D

MEDIUM FORMAT



UNPRECEDENTED IMAGE QUALITY

Images shot by the PENTAX 645D embody a completely new world of visual expression, a world made possible only by medium-format digital cameras.

The PENTAX 645D is the ultimate imaging tool, for those particularly discerning photographers who demand nothing but the highest image quality.

- * **40 Megapixel** CCD sensor designed by Kodak (44x33mm)
- * New PENTAX PRIME II Imaging Engine
- * New **SAFOX IX+** autofocus system with 11 sensor points
- * Advanced **77-segment** multi-pattern metering
- * 14 bit A/D converter
- * **Weather resistant** and dustproof (70 seals)
- * **Dual SD / SDHC slots**
- * **3" LCD** monitor, 921 000 dots
- * Mini-HDMI output





TECHNICAL SPECIFICATIONS

CCD SENSOR

Number of pixels	Approx. 40 megapixels - effective
Sensor type & size	44 x 33mm CCD sensor with primary colour filter
Pixel size	6.0 µm x 6.0 µm
Dynamic range	11.5f - stops
Image size	JPEG: L - 40M (7264x5440), M - 32M (6528x4896), 21M (5376x4032), S - 13M (4224x3168), 7M (3072x2304), RAW: 40M (7264x5440)

LENS

Mount	PENTAX 645AF2 bayonet mount
Usable lenses	PENTAX 645AF2, 645AF and 645A mount lenses

VIEWFINDER

Type	Trapezoid-shaped glass prism
Focusing screen	Natural Bright Matte focusing screen
Field of view	approx. 98%
Magnification	approx. 0.62 x (w. D-FA645 55mm f/2.8 at infinity), approx. 0.85 x (w. FA645 75mm f/2.8 at infinity)
Diopter adjustment	approx. -3.5 +2.0m ⁻¹

LCD SCREEN

Type	3" (7.6cm) colour LCD, approx. 921k dots, wide-angle viewing, adjustable brightness and colours, scratch resistant, reinforced glass with AR coating
Digital preview	for confirming WB and exposure
Other features	Index view (1, 2, 4, 9, 16, 36 or 81 images), Enlarge ment (up to 32X, scroll available), Image Rotation, Folder view, Slideshow, Histogram, Resize, Crop ping, Bright/Dark area, Calendar view

FILE FORMATS

Photo format	RAW (PEF, DNG), JPEG (Exif 2.2), DCF 2.0 3 Quality levels of JPEG (good, better, best) RAW 14bit (PEF, DNG), RAW+JPEG
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MEMORY

External memory	Compatible with SD and SDHC memory cards Dual slot
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FOCUSING

Type	TTL phase difference detection autofocus, 11-point AF system (SAFOX IX+) with indication in finder
Focus mode	AF-Single, AF-Continuous
Focus points	Auto, Select or Center
Superimpose	Available, up to 9 pictures

EXPOSURE CONTROL

Metering system	TTL open-aperture 77-segment metering
Metering mode	Multi-segment, center-weighted or spot metering
Operational range	EV 2 - EV 21 (at Standard ISO 200 with 55mm f/2.8)
Modes	Program, Sensitivity-Priority, Shutter-Priority, Aperture-Priority, Shutter and Aperture-Priority, Metered Manual, Bulb, X speed, User
Shutter type	Electronically controlled vertical-run focal plane
Shutter speeds	Auto and manual: from 1/4000 to 30 sec (1/3 EV steps or 1/2 EV steps), bulb
Sensitivity range	ISO Auto, from 200 to 1000, extended: from 100 to 1600 (1/3, 1/2 or 1EV steps)
Exposure compensation	± 5EV (1/3EV steps)

FLASH

Synchronization	Hot shoe, X-sync socket, sync-speed: 1/125 sec., P-TTL, high-speed-sync, wireless-sync with PENTAX dedicated external flash
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POWER SUPPLY

Battery	Rechargeable D-LI90 Lithium-ion battery
Capacity	Approx. 800 shots and 440 min in play mode
Other sources	Optional AC adapter also available

INTERFACES

Video outputs	Mini-HDMI, Mini-phone type (NTSC or PAL)
USB	USB 2.0 mini-B (Hi-Speed)
Other	Cable switch, X-sync socket, DC power input

RECORDING PARAMETERS

Drive modes	One shot, Self-timer (2 or 12 sec), Continuous shooting, Remote control (0 or 3 sec), Remote continuous shooting, Interval, Exposure bracketing, Multiple exposure, Extended bracketing
Continuous shooting	approx 1.1fps on both Slot 1 and Slot 2 RAW(PEF)+JPEG(40M at ★★★) until 13 frames RAW (PEF or DNG) until approx. 13 frames JPEG (40M at ★★★) until 13 frames
Custom Image	Bright, Natural, Portrait, Landscape, Vibrant, Muted, Reversal Film, Monochrome
Mirror Lock-up	For vibration free shooting. Can be enabled via dedicated dial or infrared remote control
White balance	Auto, Daylight, Shade, Cloudy, Fluorescent light (D, N, W, L), Tungsten light, Flash, CTE, Manual settings 1, 2 or 3, Color temperature setting (3 types) with WB fine adjustment
Dust Removal II	Image sensor cleaning function by supersonic vibration, with dust alert function

OTHER FEATURES

World time	75 cities, 28 time zones
Folder names	Date (100_MMDD...), PENTX (100PENTX...)
File names	Standard, User customize
Digital filters	Monochrome, Extract colour, Colour, Base Tweaking, Soft
HDR	Available (1 composite picture out of 3 images)
Other	Dynamic Range Expansion, Digital level function, Automatic compensation of distortion and lateral chromatic aberration with D-FA645- and FA 645- series, Versatile White Balance control system, including the CTE mode, attachment of copyrights credit on recorded images, compatible with the SDM autofocus mechanism

DIMENSIONS AND WEIGHT

Dimensions	156 × 117 × 119 mm (WxHxD)
Weight	1400 g unloaded 1480 g with battery and 2 SD cards

SYSTEM REQUIREMENTS

Operating systems	PC: Windows XP SP2, Vista™ and 7 Mac: OS X 10.3.9 or above
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SOFTWARE

PENTAX Digital Camera Utility 4 (v 4.20)
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