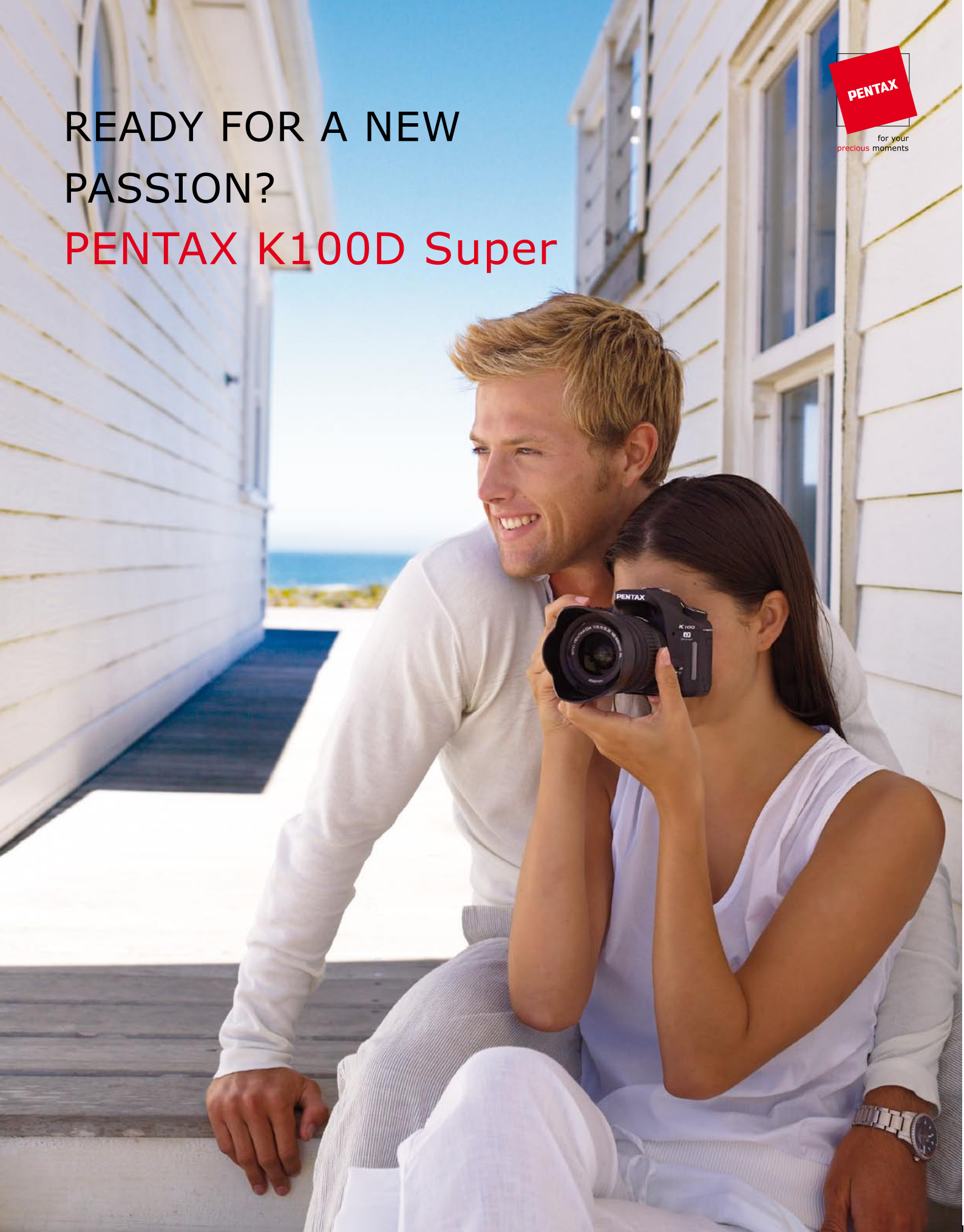


READY FOR A NEW
PASSION?

PENTAX K100D Super



for your
precious moments



PENTAX

ENTHUSIASM CREATES NEW POSSIBILITIES.

See the world with open eyes; discover the special behind the ordinary, seek out the amazing in the inconspicuous: Whoever photographs with passion cannot but help to continually discover something new and exciting in the world around them. Enthusiasm is just as strong as the creative drive. PENTAX users understand their passion for photography and demand a camera that can deliver their vision. That's why PENTAX cameras have for decades been among the leaders in what modern photo technology has to offer.

With the new K100D Super PENTAX has set the new standard for combining low weight, compact design and progressive technology. Experience it for yourself – even the most compact PENTAX DSLR offers all the advantages of digital SLR photography: innovative camera technology, excellent image processing and, naturally, the advantage of being able to use the entire comprehensive spectrum of PENTAX K-mount lenses. In short, everything you need to capture the image exactly as it should be.



K100D Super

CONSISTENTLY BETTER.



Actual size.

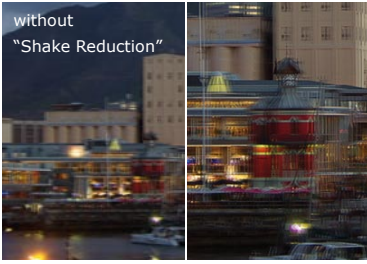
- "Shake Reduction" integrated in the camera body. The result: blur-free pictures are possible with all PENTAX lenses.
- "Dust removal" system: based on nano-technology that uses a fluorine compound on the low pass filter and a vibration function that keeps dust from adhering to the sensor.
- Compatible with SDM lenses (ultrasonic AF).
- Fibre reinforced housing with metal chassis.
- 23.5x15.7mm CCD colour sensor with 6.1 megapixels resolution for high-contrast images with minimal noise. Additional intercarrier noise suppressor for long exposures.
- 14 exposure modes include Picture and Scene Modes.
- Large, high-resolution 2.5" wide angle TFT monitor with 210,000 pixels and a viewing angle of 140°.
- Pentamirror finder with 96% image field and a 0.85 magnification factor.

The predecessor of the K100D Super pursued the goal of packing state-of-the-art technology into the most durable and compact housing possible. The result was a distinctive camera quite ahead of the other DSLRs in its class. The new K100D Super continues this principle with outstanding consistency. With one exception: the technology inside this compact and light design is even more dazzling.

The low pass filter is specially coated to keep dust from settling on it. The mechanical "Dust Removal" function supplements this system by shaking the dust off the sensor so that it falls onto an adhesive strip, thus preventing the dust particles from re-polluting the camera.

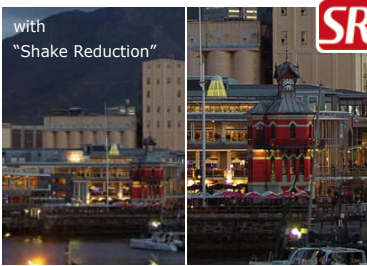
A further critical advantage: the K100D Super is ready to work with the piezo-electronic driven ultrasonic lenses.

SPECIALIZED IN MOVING MOMENTS.



PENTAX "Shake Reduction"

A blurred photo is a lost opportunity and a problem that does not necessarily depend on the abilities of the photographer. There are a number of situations where it just isn't possible to get a sharp picture, even if you are a seasoned pro. At dawn, at night, in a room dimly lit by tungsten bulbs or with a telephoto lens, are just a few. The reason is simple: the longer the shutter speed the greater the risk of not being able to hold the camera sufficiently steady.



The K100D Super, with its opto-mechanical "Shake Reduction", consigns this problem to the past: it reduces camera shake by neutralising any inadvertent camera movements. This system, integrated into the camera body, acts according to a singular principle: sensors recognise if the camera shakes and then rapidly shifts the position recording CCD sensor into a balancing movement. The biggest advantage of the PENTAX system is that since it is integrated in the camera body it works any lens mounted on the camera.

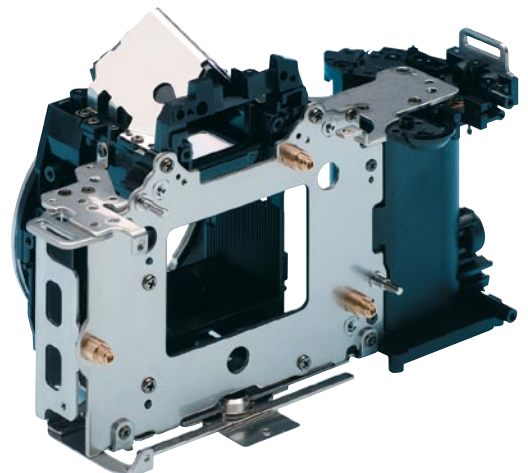
The "Shake Reduction" increases your exposure range by up to four stops. That means that with a 250mm telephoto lens clear photographs are possible with exposure of 1/15sec., or that a 50mm lens can be hand held down to 1/4sec.



- 1 Manual flash button
- 2 Control wheel for shutter speed, aperture, image viewing
- 3 Exposure memory lock
- 4 Menu access button
- 5 Four-way controller
- 6 Function button, i.e. white balance, ISO, flash functions, recording parameters
- 7 Image playback

Well protected

Housing construction is crucial for stability. The fibre reinforced housing and high-grade steel chassis of the PENTAX K100D Super achieves a level of robustness that is far from usual for cameras of this category. The combination of high-quality materials forms the basic structure of this camera so the photographer is ready for any demanding situation.



6 MILLION REASONS FOR PIN-SHARP PICTURES.



6 megapixel resolution offers minimum picture noise and maximum brilliance with high luminous sensitivity.

Every camera has to fight picture noise in a certain way. Higher ISO values mean greater sensitivity and the chance of increased picture noise. This is particularly the case with adverse lighting conditions that can be found at dawn or in a normally lit interiors. With resolutions of 6 megapixels picture noise is decreased in these situations, while the pictures remain excellently sharp. This advantage is further increased by using the "Shake Reduction" of the K100D Super – because it permits you to work in lower light conditions and with lower ISO values that were previously beyond the realm of hand-held photography.

The "limitations" of 6 megapixels resolution lies in the enlargement possibilities of your pictures. Prints up to 17x25cm (7"x10") are fully within reach. Standard print sizes of 10x15 (6"x4") or 13x18cm (5"x7") are well within the "green zone". Even cropped enlargements are possible without any problems.

WHO WANTS DUST SPOTS IN THE PICTURE?

The PENTAX "Dust Removal" system

Just as camera shake is the natural enemy of brilliant pictures, annoying dust marks can cloud the lasting joy of your photos. To combat this the new K100D Super offers here a highly efficient solution: the "Dust Removal" system.

The system is a multi-level one: the Low Pass filter is sealed with a fluorine coating based on nano-technology. This prevents dust particle from adhering to the sensor. Additionally the CCD sensor can be vibrated in order to shake off possible particles. The particles that are shaken off fall down and are drawn to an adhesive strip where they are collected – and out of your life for ever. The result: you have pictures from the start that are free of dust marks, saving yourself the labour-intensive retouching of your photos on the computer.



ADJUST YOURSELF TO THE FACT THAT THE CAMERA ADJUSTS TO YOU.



... sunsets, landscape, backlighting, portraits

Picture and Scene Modes

Creativity needs room to move and because the expressiveness of a good photo is crucially dependent on the selected aperture and shutter speed the K100D Super gives you all options. With 16 segment metering, centre-weighted metering or spot metering, the amount of available light is ideally determined – setting the stage for individual and creative exposure control. Whether you choose problem-free photography by opting for Programmed Automatic or if you want more creative control by setting the shutter and aperture yourself the K100D Super follows your preferences.

There is a lot of ground between full automatic and complete manual shooting, and this camera covers the distance. Numerous Picture Modes permit you boundless spontaneity. Unique modes designed to produce optimum portraits, macro or sports shots. A special capability of the K100D Super: the camera can automatically recognise which of the Picture Modes would yield the best results for the scene that you're focusing on and automatically set it for you. Additionally, there are 8 Scene Modes provided to maximise your picture results of scenes such as night photography, sunsets or even pictures taken by candlelight.

ILLUMINATING MOMENTS TO TAKE WITH YOU.



The new AF-200 FG flash

Light is the basic requirement of photography. You won't have to grope in the dark if the sun isn't shining because your PENTAX K100D Super is equipped with a built-in flash that supplies sufficient lighting for most standard shooting situations. But sometimes – such as group photos and family gatherings – you might need some extra power. This is where the new compact AF-200 FG flash can be of valuable assistance.

- GN 28 (ISO 200)
- Flash angle coverage a 16mm lens (24mm equivalent in 35mm film format), with built-in flash wide-angle flash panel
- Flash compensation for -0.5 EV and -1 EV for natural colour renditions
- Flash range to 5m (ISO 200, f/5.6)
- P-TTL for use with all current PENTAX digital cameras (TTL operation for older cameras)

GOOD HUNTERS ARE QUIET AND FAST.

Ultrasonic drive

The newest generation of PENTAX of DA* lenses are equipped with the SDM (Supersonic Direct-drive Motor) ultrasonic drive. The autofocusing of these new lenses is astonishingly reliable, fast and quiet. Apart from numerous other advantages the DA* lenses are protected against dust and water. Combined with an inner focusing system these lenses achieve a so far unheard of operational comfort.



**smc-DA* 16-50mm
2.8 ED AL [IF] SDM**

**smc-DA* 50-135mm
2.8 ED [IF] SDM**



	GROUPS/ ELEMENTS	ANGLE OF VIEW (°)	SMALLEST APERTURE	MINIMUM FOCUSING DISTANCE	MAGNIFI- CATION	DIAMETER/ LENGTH	WEIGHT	FILTERSIZE
smc-DA 14mm f/2.8 ED (IF)	11/12	90	22	17cm	1:5.3	83.5x69mm	420g	77mm
smc-DA 21mm f/3.2 AL Limited Edition	8/5	68	22	20cm	1:5.9	63x25mm	140g	49mm
smc-DA 40mm f/2.8 Limited Edition	4/5	39	22	40cm	1:7.7	63x15mm	90g	49mm
smc-DA 70mm f/2.4 Limited Edition	6/8	23	22	70cm	1:8.3	63x26mm	130g	49mm
smc-DA 10-17mm f/3.5-4.5 ED (IF) ("Fish-Eye"-Zoom)	8/10	180-100	22-32	14cm	1:4.2	68x71.5mm	320g	-
smc-DA 12-24mm f/4.0 ED AL [IF]	11/13	99-61	22	30cm	1:8.3	87.5x84mm	430g	77mm
smc-DA 16-45mm f/4.0 ED	10/13	83-35	22	28cm	1:3.8	72x92mm	365g	67mm
smc-DA* 16-50mm f/2.8 ED AL [IF] SDM	12/15	83-31,5	22	30cm	1:4.8	84x98.5mm	600g	77mm
smc-DA 18-55mm f/3.5-5.6 AL	9/12	76-29	22-38	25cm	1:3	67.5x68mm	225g	52mm
smc-DA* 50-135mm f/2.8 ED [IF] SDM	14/18	31.5-11.9	22	100cm	1:5.9	76.5x136mm	765g	67mm
smc-DA 50-200mm f/4.0-5.6 ED	10/11	31.5-8.1	22-32	110cm	1:4.2	66.5x78.5mm	255g	52mm

TECHNICAL DATA

Type	Digital SLR camera with interchangeable lenses, TTL metering and integrated P-TTL automatic flash Metal chassis with fibre-reinforced plastic housing			
CCD	23.5x15.7mm Interline Interlace CCD with primary colour filter 6.31 Megapixel – total 6.1 Megapixel – effective Opto-magnetic 3D Sensor with "Shake Reduction"			
Lens Mount	K _{AF} bayonet, compatible with K _{AF2} , K _{AF} , K _A lens mounts, no support for the K _{AF} motor zoom function, K-mount lenses with restrictions, stop-down metering; M42 and medium format lenses with adapters subject to restrictions with exposure metering and control			
Colour Depth	3x12 bit in RAW, 3x8 bit in JPEG			
Image Formats/Resolution	RAW, JPEG (Exif 2.21), DCF			
	RAW	JPEG	JPEG	JPEG
	3,008x2,008	3,008x2,000	2,400x1,600	1,536x1,024
Best	11	34	51	106
Better		70	96	173
Good		117	161	271
	All capacities with 128MB memory card (optionally available)			
Memory	SD Card, SDHC Card			
Monitor	2.5" low-temperature polysilicon TFT colour LCD monitor with 210,000 pixels, brightness adjustable, wide-angle view (approx. 140°), digital picture preview by means of picture preview switch (Depth-of-field preview button)			
Focus	Autofocus system, TTL Phase Matching system with 11 focus points (SAFOX VIII) with viewfinder indications, autofocus switchable between automatic and manual selection of focus point, spot focus			
Exposure Modes	Programmed automatic, Aperture and Shutter Priority Automatic, Manual, 'B' setting, 1/4,000 to 30sec., Picture Modes: Portrait, Landscape, Macro, Sport, Night scene portrait, Flash Off			
Metering System	TTL open-aperture 16-segment metering coupled with lens and AF information, switchable between multi-segment, centre-weighted and spot metering			
Exposure	Exposure compensation: ±2 EV (1/3 or 1/2 EV steps), Sensitivity: automatic, manual selectable (ISO 200, 400, 800, 1,600, 3,200)			
Digital Filters	Black & White, Sepia, various colour and special effect filters and Slim Filter			
Drive Modes	Single, Continuous (2.8fps., max. 5 per series), Auto Bracketing, Self Timer 12 or 2sec. (with mirror lock-up), IR Remote Control			
Flash	Built-in P-TTL Automatic Flash with automatic operation in low light conditions, guide number 15.6 at ISO 200, flash coverage 28mm (equivalent in 35mm format) hotshoe on camera top for system flash, flash sync 1/180sec.			
White Balance	Automatic or manual, Daylight, Shade, Cloudy, Tungsten light, Fluorescent light (W, D, N), Flash, manual			
Print Options	DPOF (Digital Print Order Form), Print Image Matching III, PictBridge			
Menu Languages	11 languages, including GB, GB, F, E, I			
Camera Options	19 individually selectable camera functions "Shake Reduction", "Dust Removal", Supersonic Autofocus			
Power Requirements	2x CR-V3 Lithium batteries or 4x AA batteries (Lithium, Alkaline, Ni-MH), AC mains adapter optionally available			
Dimensions	129,5x92,5x70mm (WxHxD)			
Weight	570g (without batteries and card)			
System Requirements	PC: Windows 2000, XP Home Edition/XP Professional, Windows Vista Mac: OS X 10.2 or higher			
Connectivity	USB 2.0, AV connector (compatible with NTSC or PAL)			
Standard Accessories	AV Cable I-IVC28 USB Cable I-USB17 Shoulder strap O-ST53 Body cap Eyepiece cap M Eye cup Cover for accessory shoe 4x AA batteries Software S-SW74			

WE'VE THOUGHT OF EVERYTHING: PENTAX ACCESSORIES



Crossover Bag

Your equipment is well protected on your back, leaving your hands free for photography – this clever bag gives you a new independence. Naturally a place for camera, 2 lenses, a flash and other accessories.



Camera case

You don't always need all your equipment. Often, just the camera and standard lens are enough. This bag will keep your precious camera and lens well protected during day-to-day use and for protection against the elements.



Aluminium Case

Need a safe place for all your equipment? There's no place better than in an aluminium briefcase. Firm adjustable partitions provide for optimal spacing and guarantees that everything remains safe in its own padded place.



Cable Release

The cable release with a length of 50cm is suitable for blur-free photography when shooting from a tripod.



Viewfinder Loupe

The O-ME53 enlarges the image in the viewfinder by a factor of 1.2x and improves the rendition of details.

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The manufacturer reserves the right to changes in technology, design, equipment and scope of supply without advance notice.

As of June 2007

Your PENTAX dealer

PENTAX