

Decades of technical innovations to the highest standard

With innovative and outstanding products PENTAX makes every effort to contribute to the valuable moments in daily life. To consumers this means performance and simplicity combined with the professional's standards of reliability, precision and quality. The corporate slogan – "for your precious moments" – underlines this philosophy and commitment to quality.

PENTAX is known world-wide for technologically advanced products in diverse business fields including imaging systems (photo/optics), medical instruments such as video and fibre endoscopes, industrial products for monitoring and surveying, spectacle lenses, mobile printers and internet cameras.

For years PENTAX has been a leading product innovator. In the photo range for example: 1952 the first Japanese 35mm SLR camera. 1986: the world's first zoom compact camera. 1997: the first medium format interchangeable lens Autofocus SLR. 2001: the smallest 4.0 megapixel digital camera. 2002: the world's first binocular with integrated digital camera and TFT screen. 2003: the patented "Sliding Lens" system, allowing for a 3x optical zoom lens to be accommodated in a digital camera measuring a mere 2cm thick. The innovation of 2005: The Optio WP, the first digital compact camera that is suitable for under water usage to a depth of 1.5m.

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

Photography is as easy as clicking your fingers.



**istDL*

**istDs*

PENTAX

PENTAX



How do you attain perfection? With perfect tools

Photography is a question of perspective. A good photo is a matter of taste. There are no doubts, however, with the question of what is the best tool: SLR cameras are the ultimate for excellent results. We continue with a standard that has applied for decades in a similar range into the digital age with our two newest digital SLR cameras: PENTAX *ist DS and *ist DL.

The reputation of the SLR is not by chance. The ability to view through the lens is the only certain way to exactly capture the scene you want.

- > Precision optics
- > Interchangeable lenses
- > The viewfinder image is the same as the resulting photograph
- > Excellent focus control
- > Exact metering and lighting control
- > Precision shutter speeds and apertures
- > All controls can be set manually

Practice makes perfect

Digital SLRs have a lot to do with electronics but more to do with optics. Ultimately there is the precision lens system that delivers brilliant images to the CCD chip. For over 80 years PENTAX has developed and sold optical devices. Since 1999 we have included digital cameras in our family of products to which the *ist DS and *ist DL have been added as our newest developments. As they are compatible with older PENTAX lenses you can increase their versatility and can even use the entire range of existing accessories.



The perfect moment is too valuable for a snapshot

The world is full of detail. Every holiday, every celebration, every occasion has a thousand moments that are worth a brilliant photograph. With digital SLRs like the PENTAX *ist DS and *ist DL you can exhaust all photographic possibilities. Both cameras unite the best of both worlds: facilities of digital photography with the quality that can only be produced by an SLR camera.

With compact sizes and lightweight metal chassis both models are among the smallest and lightest digital SLRs in the world. They are also very simple to use. Both are operational in a fraction of a second, the exact shot can be seen in the optical viewfinder and both offer many program functions. In short, both cameras ensure that you can go from taking a mere snapshot to capturing a creative, extraordinary photograph.

PENTAX offers the right camera regardless of the level of the photographer – from the SLR beginner to the most advanced serious hobbyist. The *ist DS is at your disposal. If you decide on a lower-priced model the *ist DL can be your introduction to the world of digital SLR.





Easy to use, simple to understand:
The controls

- | | |
|--------------------------------|---|
| 1. Mode dial | 11. Flash |
| 2. Manual flash button | 12. Lens information contacts |
| 3. Playback button | 13. Pentaprism (*ist DS) |
| 4. Info button | 14. Focus mode lever |
| 5. Erase button | 15. On/Off switch |
| 6. Menu button | 16. Lens release button |
| 7. Exposure value adjust wheel | 17. Lens hood ring |
| 8. Exposure lock button | 18. Focusing ring |
| 9. TFT screen | 19. Zoom control |
| 10. 4-Way controller | 20. Mirror with shutter and CCD protection lens |

The Stainless steel chassis developed by PENTAX allows enormous weight reduction and provides maximum stability in daily use – even with long and heavy lenses.





From light come pictures. You can control it

Depending upon the situation you can decide what is needed. Perhaps you want to stop the action by controlling the shutter speed and let the camera select the best aperture. Alternatively you can set the aperture to control the depth of field and then let the camera determine the exact shutter speed. You can even set everything manually for those really tricky situations.

Do you prefer fully automatic? PENTAX digital SLRs offers a variety of Picture Modes. Action packed shots are as easy as impressive portraits or highly detailed landscapes simply by pushing a button. Thanks to the sophisticated PENTAX electronics, the cameras can even recognize the scene being shot and automatically adjusts the settings for the best result.

The name for Sharpness: SAFOX 8

The focusing system of the *ist DS consists of 11-cross sensors. The specific arrangement of the sensors means fast and precise focusing of your scene under even the most difficult conditions.



Automatic Bracketing

Sometimes the best exposure can only be found by trial-and-error: by over or under-exposing the shot and then selecting the best result. With Auto-Bracketing the camera takes three consecutive shots with different exposures. Then you can review each shot to determine which offers the most impressive result.



Do you have the shot? We have the right camera

Photographic opportunities are as varied as the world we live in. To manage the various situations accurately the cameras offer different options – action photography, for example. The Action Picture Mode program provides for fast shutter speed, the autofocus is constantly redefined and the series exposure function makes shooting possible up to 2.8 frames per second.

The SLRs really come into their own in extreme situations. Making a shot in areas or times of darkness offers a special challenge. However, with the optical viewfinders you'll always have an accurate view. Mount the camera on a tripod and use a remote release and you're ready. Capture the scene with exposures of up to 30 seconds in Auto-automatic mode or exposures of any length in Manual mode – all perfectly and cleanly thanks to the intercarrier noise suppressor.

These are but two examples of the many situations that the *ist DS and *ist DL supply the perfect solution.





No film, no developing. Just brilliant images

Digital photos differ from analogue photos in one significant point: they can be viewed and manipulated on your computer screen. You can perfect the final image without having to print it.

Then you can add that special final touch to your shot by choosing a favourite photo paper. For the highest quality prints we recommend professional quality paper – or you can opt for the print service offered by your local photo lab or even via the Internet. You can even get fine results with a quality colour printer at home.

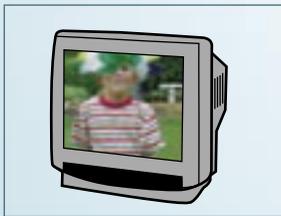
A photo is just a photo – until you make it more

Did you get the perfect shot? Perhaps you want to increase the contrast, get a slightly different crop or see the result as a moody black and white? A number of options are open for enhancing your shots. They begin with the colour filters in the camera. For more extensive changes to the RAW- or JPEG files there are a number of different programs at your disposal.



Image manipulation on the computer

After shooting you can change the pictures at will. A variety of exciting programs are available from various companies.

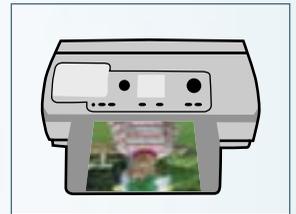


Slide show on TV

Photograph a mountain tour during the day and see the results on television the same evening – not a problem for the *ist DS or *ist DL. With the appropriate software you can create a slide show to show your most beautiful holiday pictures with cross fading and musical background.

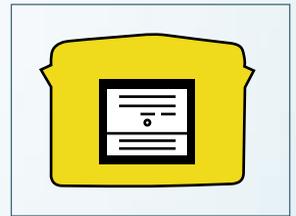
Photo printer

Transfer the pictures via USB cable to your computer and use your photo printer. Alternatively you can use a printer with the PictBridge function and connect the camera directly to the printer.



On-line ordering

Send your images directly from your computer via the Internet to an on-line photo lab. In just a few days your prints will be posted directly to your home.



Digital station

The camera stores the pictures automatically in the DPOF format. Decide how many prints you want of which shot and then just insert the SD card in the digital station at your appropriate photo specialist shop.



It's good to have dreams

The PENTAX *ist DS and *ist DL deliver everything you need for perfect photos. Is there something else that you need? Then take a look at the PENTAX accessories program. Perhaps a more powerful external flash for when natural lighting is insufficient. With a remote control or cable release (see p17) you can fire the shutter without blur when the camera is on a tripod. Remember – your valuable equipment should be safely stowed away and PENTAX offers the right bags.



AF-360 FGZ flash



Flash	AF-360 FGZ with automatic zoom function
Guide number	36 at 85mm, 30 at 50mm
Flash range	0.7–5.4m at f/5.6 (ISO 100/50mm)
Output steps	Manual 1/1, 1/2, 1/4, 1/8, 1/16, 1/32
Working aperture	Selectable
Modes	A- and P-TTL automatic flash and manual, servo (manual), strobe flash
Power	4x AA Alkali manganese or rechargeable batteries
Dimension	70x110x115.5mm (WxHxD)
Weight	270g (without batteries)
Functions	Contrast control for up to 4 flashes, modelling and test flash function, 10 flashes per second, second-curtain synchronisation, cableless operation with appropriate cameras, auto-matic zoom coverage for a 20mm lens (35mm format), bounce light capability with catchlight panel

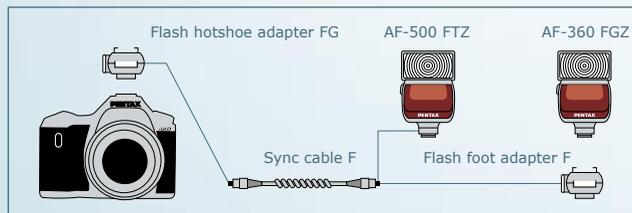
Always with you: the Multicase

Its good looks hide its real value: the Multicase safely stores and protects your SLR body, lenses and accessories. Flexible separating elements offer maximum flexibility and practical handling. Internal dimensions: 23x17x12cm (WxHxD).



For the photo Safari: the Backpack

With abundant space and large storage compartments your SLR system is well accommodated. Additionally, a laptop can be safely stored in a protected inner bag. You'll always have all your equipment handy. Internal dimensions: Backpack 35x40x18cm, photo compartment: 35x10x18cm (WxHxD).



Flash System

The flash shoe adapter FG allows the connection for the simultaneous use of multiple flashes. The sync cable F (50cm or 3m length) connects to a flash shoe adapter F or to a flash hotshoe. The flash shoe adapter has upper and lower electrical contacts to accommodate a 5-pin connector cable for the connection to additional flash adapters or flashes (i.e., AF-500 FTZ). The flash shoe adapter has a tripod mount at the bottom instead of the lower contacts. Another possibility for fastening a flash is the flash shoe adapter with clamp.

The secret of longevity: interchangeable lenses from PENTAX

The right lens for any situation – wide angle, zoom, telephoto... whatever the requirement. For the *ist DS and the *ist DL there is a great selection of the latest lenses and technology available. If you already own PENTAX SLR equipment and lenses, you can continue to use them without problem: the PENTAX *ist DS and *ist DL are compatible with older PENTAX lenses. Not only can you continue to shoot with your favourite old lens, but also the whole range of PENTAX lenses are available to you.



smc-DA 50-200mm/
4,0-5,6 ED



smc-DA 18-55mm/3,5-5,6



smc-DFA 100mm/2,8 macro



smc-DA 16-45mm/4,0



smc-DFA 50mm/2,8 macro



smc-DA 40mm/2,8 limited



smc-DA 14mm/2,8 ED

Lenses – optionally available

Lens type	Groups/ elements	Angle of view (°)	Smallest aperture	Min. focusing distance	Mag. ratio	Diameter/ length	Weight	Filter size	
Special lenses for digital cameras									
smc-DA 14mm 2.8 ED (IF) (21mm)	11/12	90	22	17cm	1:5.3	83.5x69mm	420g	77mm	
smc-DA 40mm 2.8 AL (60mm)	5/5	39	22	40cm	1:7.7	63x15mm	85g	49mm	
smc-DA 16-45mm 4.0 ED (24-67mm)	10/13	83-35	22	28cm	1:3.8	72x92mm	365g	67mm	
smc-DA 18-55mm 4.0-5.6 AL (28-83mm)	9/12	76-29	22~38	25cm	1:3	67.5x68mm	225g	52mm	
smc-DA 50-200mm 4.0-5.6 ED (75-300mm)	10/11	31.5-8.1	22~32	110cm	1:4.2	66.5x78.5mm	255g	52mm	
Digital lenses for all cameras (digital/analogue)									
smc-DFA 50mm 2.8 macro (75mm)	7/8	47	32	19.5cm	1:1	67.5x60mm	265g	49mm	
smc-DFA 100mm 2.8 macro (150mm)	8/9	24.5	32	30.3cm	1:1	67.5x80.5mm	345g	49mm	
Analogue lenses usable on all cameras (digital/analogue)									
smc-FA 31mm 1.8 AL (47mm)	7/9	70	22	30cm	1:6.3	65x68.5mm	345g	58mm	
smc-FA 77mm 1.8 (115mm)	6/7	31.5	22	70cm	1:7.1	64x48mm	270g	49mm	
smc-FA 20-35mm 4.0 AL (10-53mm)	8/10	94-63	22	30cm	1:6.3	69.5x68mm	245g	58mm	
smc-FA 28-105mm 3.2-4.5 (42-158mm)	11/12	75-23.5	22~38	50cm	1:5.3	65.5x66mm	255g	58mm	
smc-FA 35-80mm 4.0-5.6 (53-120mm)	7/6	63-30.5	22~32	40cm	1:4	65x58.2mm	160g	49mm	
For all cameras with aperture control in the camera body (digital/analogue)									
smc-FAJ 18-35mm 4.0-5.6 AL (28-53mm)	10/12	100-63	22~32	28cm	1:5.5	72x68.5mm	190g	67mm	
smc-FAJ 28-80mm 3.5-5.6 (42-120mm)	8/8	75-30.5	22~38	40cm	1:4	63x67mm	180g	58mm	
smc-FAJ 75-300mm 4.8-5.8 (113-450mm)	10/12	32-8.2	32~38	130cm	1:3.3	69x116mm	385g	58mm	
Converters for all cameras without AF (digital/analogue)									
smc-A 1.4x S	4/5	-	-	-	-	64.5x21.5mm	145g	-	
smc-A 2x S	6/7	-	-	-	-	64.5x39mm	210g	-	
smc-A 1.4x L	5/5	-	-	-	-	65.5x28.5mm	175g	-	
smc-A 2x L	5/6	-	-	-	-	65.5x63mm	255g	-	
smc-F 1.7x Autofocus adapter	4/6	-	-	-	-	64x26mm	135g	-	

Data in parentheses correspond to the focal length with *ist DS and *ist DL

Technical Data *ist DS

Type	Digital SLR camera with interchangeable lenses, TTL metering and integrated TTL Flash, Stainless steel chassis with plastic housing			
CCD	6.31 Megapixel – total 6.1 Megapixel – effective 23.5x15.7mm Interline-Interlace CCD			
Lens Mount	KAF-Bayonet, compatible with K _{AF2} -, K _{AF} -, K _s -lenses. K- and M42-lenses (with K-mount adapter) with some limitations			
Colour Depth	12 Bit in RAW, 8 bit in JPEG			
File Formats/ Resolution	RAW	JPEG	JPEG	JPEG
	3.008x2.008	3.008x2.000	2.400x1.600	1.536x1.024
	Best	11	34	51
	Better	70	96	173
	Good	117	161	271
	All capacity data with 128MB memory card (optionally available)			
Memory	SD-Card			
Screen/Viewfinder	Permanent prism finder with 95% field-of-view and 0.95x magnification and with dioptre correction 2.0" TFT screen with 210,000 pixels, Changeable focusing screen			
Focus	11-Point TTL autofocus system (SAFOX VIII), switchable to Spot-AF (AF Spot Field selectable), single shot and servo-AF, manual focus and infinity (∞) Range: EV0-EV19			
Exposure Modes	Programmed automatic, Shutter- and Aperture-Priority, Manual, 1/4, 000–30sec., Picture Modes: Landscape, Flowers, Portrait, Night scene, Sports			
Metering Method	16-Field TTL metering, switchable between multi-field, centre-weighted and spot			
Exposure	Exposure compensation: ±2 EV (1/3 EV steps) Sensitivity: Automatic, manual selectable (ISO 200, 400, 800, 1,600, 3,200)			
Digital Filters	Black & White, Sepia, Soft and Trick for "Slim" or "Wide"			
Drive Modes	Single, series (2.8fps., maximum 8 exposures), self-timer 12 or 2sec. (mirror lock-up), auto bracketing, IR remote control			
Flash	Built-in flash with automatic function in poor lighting conditions, manual On and Off, Guide No. 15.6/ISO 200, coverage to 28mm lens field-of-view (35mm format), hot shoe for external flash, sync speed 1/180sec.			
White Balance	Automatic or manual, daylight, shade, cloudy, tungsten light, fluorescent light (W, D, N), manual			
Print Options	Print Image Matching III and PictBridge compatible			
Menu Languages	9 languages incl. GB, D, F, ES, I			
Camera Options	18 custom-programmable functions available for best possible performance			

Power Sources	2x CR-V3 battery or 4x AA batteries (rechargeable batteries useable) or AC adapter (optional)
Dimensions	125x92.5x66mm (WxHxD)
Weight	505g (without battery or card) 605g (operational)
System Requirements	PC: Windows Me, 2000, XP Mac: OS 9.2 or higher with QuickTime 6.0
Connectivity	USB 2.0, AV (NTSC or PAL)
Standard Accessories	USB cable I-USB17 AV cable I-IVC28 2x CR-V3 battery Strap O-ST10 Image viewing and manipulation software

System accessories for *ist DS and *ist DL

Cable release CS-205	Code No. 37248
Remote Control F	Code No. 37377
AC Adapter Set K-AC10H	Code No. 39216
Case O-CC28 (for *ist DS)	Code No. 39274
AF-360 FGZ Flash	Code No. 30333
Flash shoe adapter FG (camera side)	Code No. 31045
Flash shoe adapter F (flash side)	Code No. 31022
Flash shoe adapter (flash side with tripod mount)	Code No. 31046
Flash shoe adapter with clamp	Code No. 30336
Sync cable F (50cm)	Code No. 37347
Sync cable F (3m)	Code No. 37349
Focus screen LF-60, Standard (for *ist DS)	Code No. 38571
Focus screen LL-60, Grid (for *ist DS)	Code No. 38572
Focus screen LI-60,	
Matte screen with scales (for *ist DS)	Code No. 38573



Remote Control F



Cable release CS-205

Technical Data *ist DL

Type	Digital SLR camera with interchangeable lenses, TTL metering and integrated TTL Flash, Stainless steel chassis with plastic housing			
CCD	6.31 Megapixel – total 6.1 Megapixel – effective 23.5x15.7mm Interline-Interlace CCD			
Lens Mount	KAF-Bayonet, compatible with K_{AF2} -, K_{AF} -, K_A -lenses. K- and M42-lenses (with K-mount adapter) with some limitations			
Colour Depth	12 Bit in RAW, 8 bit in JPEG			
File Formats/ Resolution	RAW	JPEG	JPEG	JPEG
	3.008x2.008	3.008x2.000	2.400x1.600	1.536x1.024
	Best	11	34	51
	Better	70	96	173
	Good	117	161	271
	All capacity data with 128MB memory card (optionally available)			
Memory	SD-Card			
Screen/Viewfinder	Non interchangeable penta-mirror viewfinder with 96% field-of-view and 0.85x magnification and with dioptre correction, 2.5" TFT monitor with 210,000 pixels			
Focus	3-Point TTL autofocus system (SAFOX VIII), switchable to Spot-AF, single shot and servo-AF, manual focus and infinity (∞) Range: EV1-EV19			
Exposure Modes	Programmed automatic, Shutter- and Aperture-Priority, Manual, 1/4,000-30sec., Picture Modes: Landscape, Flowers, Portrait, Night scene, Sports			
Metering Method	16-Field TTL metering, switchable between multi-field, centre-weighted and spot			
Exposure	Exposure compensation: ± 2 EV (1/3 EV steps) Sensitivity: Automatic, manual selectable (ISO 200, 400, 800, 1,600, 3,200)			
Digital Filters	Black & White, Sepia, Soft and Trick for "Slim" or "Wide"			
Drive Modes	Single, series (2.8fps., maximum 5 exposures), self-timer 12 or 2sec. (mirror lock-up), auto bracketing, IR remote control			
Flash	Built-in flash with automatic function in poor lighting conditions, manual On and Off, Guide No. 15.6/ISO 200, coverage to 28mm lens field-of-view (35mm format), hot shoe for external flash, sync speed 1/180sec.			
White Balance	Automatic or manual, daylight, shade, cloudy, tungsten light, fluorescent light (W, D, N), manual			
Print Options	Print Image Matching III and PictBridge compatible			
Menu Languages	11 languages incl. GB, D, F, ES, I			
Camera Options	18 custom-programmable functions available for best possible performance			

Power Sources	2x CR-V3 battery or 4x AA batteries (rechargeable batteries useable) or AC adapter (optional)
Dimensions	125x92.5x67mm (WxHxD)
Weight	470g (without battery or card)
System Requirements	PC: Windows Me, 2000, XP Mac: OS 9.2 or higher with QuickTime 6.0
Connectivity	USB 2.0, AV (NTSC or PAL)
Standard Accessories	USB cable I-USB17 AV cable I-IVC28 2x CR-V3 battery Strap O-ST10 Image viewing and manipulation software

Technical abbreviations

DA	Lenses with Autofocus for digital SLR cameras
DFA	Lenses with Autofocus optimised for digital SLR cameras, compatible with analogue SLR cameras
F, FA	Lenses with Autofocus, useable with all PENTAX cameras with bayonet mount (compatible with analogue and digital SLR)
FAJ	Lenses with Autofocus, useable with all PENTAX cameras with bayonet mount featuring aperture control on camera body (compatible with analogue and digital SLR)
A	Lenses without Autofocus with automatic aperture, useable with all PENTAX cameras with bayonet mount (compatible with analogue and digital SLR)
K, M	Lenses without Autofocus and without automatic aperture, useable with all PENTAX cameras with bayonet mount (compatible with analogue and digital SLR with restrictions)
AL	Aspherical lens element
ED	Special low dispersion glass
IF	Inner focusing
smc	Super Multi Coating
LH	Lens hood
MH	Metal hood
PH	Plastic hood
RH	Rubber hood
E	Thread in mm