

PENTAX

**istD*



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The Digital perfectionist combining quality with portability



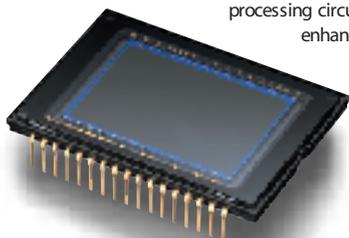
Presenting the *istD — A digital

Introducing the *istD from PENTAX. An SLR combining traditional PENTAX quality and compatibility with the very latest digital technologies, it brings you the best of both photographic genres and takes your creativity to a whole new level.

Enhanced creativity through cutting-edge technology

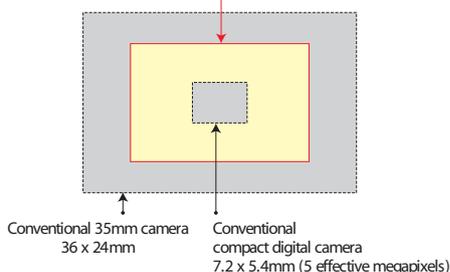
Clear, comprehensive imaging with 6.1 effective megapixels and a large-format CCD.

With expansive 23.5 x 15.7mm dimensions, the CCD of the *istD achieves amazingly high definition, maximum gradations, and reduced interference with the power of 6.1 large, effective megapixels. What's more, such performance is taken even further still with an image processing circuit specifically designed to enhance overall quality and increase response time for fast-disappearing opportunities.



Comparison of image dimensions

*istD 23.5 x 15.7mm (6.1 effective megapixels)



Work with quality you know you can trust

The advantage of PENTAX lens compatibility

Your choice of lens is every bit as important as it is with conventional photography. That's why the *istD has been designed for compatibility with existing PENTAX 35mm lenses*. This allows you to achieve winning shots with anything from a wide-angle lens to a super-telephoto and imparts a sense of confidence that comes from working with quality you can trust. The *istD is also compatible with high-performance FA lenses, allowing you to make use of the same range of precision autofocus features that have made them so popular in conventional SLR photography. And what's more, the *istD can even be used with our top-of-the-line FA* lenses too.



*All PENTAX FA J lenses and lenses featuring an "A" position are compatible with the *istD.

The exclusive *istD lens lineup

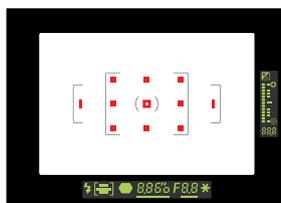
At PENTAX, we've already begun development of the smc PENTAX DA series of portable, compact, interchangeable lenses. Indeed the first of the series — the smc PENTAX DA 16-45mm F4ED AL* (equivalent to 23.54 - 69mm in 35mm format) — is scheduled to reach the market in the very near future. *Tentative name

Note: Focal length equivalence in 35mm format can be determined by multiplying that of a lens mounted on the *istD by 1.5.

Superior functions for SLR performance

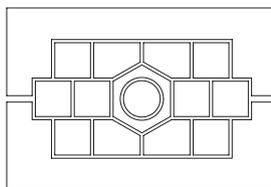
11 selectable AF points, with highlighting for greater assistance

With an impressive 11 AF points covering a surprisingly wide area, the *istD combines high-precision focusing with step-ahead compositional freedom. Cross-type sensors ensure accurate readings for each and every point, while sets of points can be manually selected to suit your subject and highlighted in red in the viewfinder for greater assistance.



16-segment multi-pattern metering

Advanced 16-segment multi-pattern metering lets you take satisfying shots in even the most complex lighting situations. The *istD also offers a choice of center-weighted or spot metering, allowing you to give the main subject more impact or capture all elements with balanced exposure.



Hyper program mode offers auto exposure and manual control

Hyper program mode combines the ease of auto exposure with the versatility of manual control. Beginning with program auto exposure, it automatically puts you in Shutter-Priority AE should you turn the Tv dial located at the front, or in Aperture-Priority AE if you adjust the Av dial at the back. Whichever you choose, the *istD responds with satisfying speed, and should you wish to return to the original auto exposure settings, all you have to do is push the green button.

Hyper Manual for greater control over manual exposure

Hyper Manual mode assesses the optimum exposure settings for your subject. You can then shoot with totally automatic exposure, or press the AE lock button to maintain that exact exposure automatically while adjusting aperture or shutter speed as you please. Just a press of the green button is all it takes to return you to the default exposure settings.

The accuracy of digital auto bracketing

Exposure really can be a matter of personal taste. For this reason, the *istD offers auto bracketing. Allowing you to take three shots of the same subject across a preset range of exposures, it gives you the freedom to select the one you like best.

Consecutive shots, multiple exposure, and so much more

The *istD offers so much shooting versatility. Selection of high-speed consecutive shooting allows you to record up to 6* frames at approximately 2.6 frames per second. Multiple exposure allows you to take experimental shots for creative results. There's also a self-timer, which offers a 12-second delay in normal use, a 2-second delay through use of the Custom Function, and even allows remote operation through use of an optional unit.

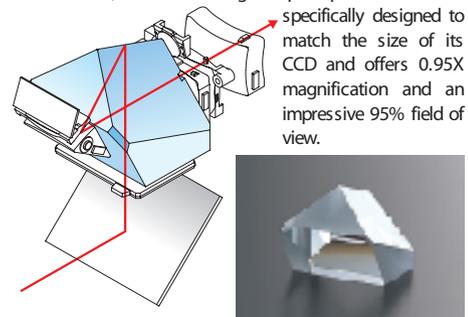
* When the noise reduction function is switched off.

Electronic preview for depth-of-field confirmation

A handy preview lever exclusively developed for the *istD allows you to check depth of focus prior to shooting. And because the lever is located conveniently close to the shutter, you're free to shoot practically as soon as you achieve the depth you're looking for.

A superior, specially designed glass pentaprism viewfinder

A key advantage of conventional SLR photography is the avoidance of parallax error via through-the-lens viewing. The *istD, however, confers the same exact advantage. Replacing the viewfinders found in film cameras, it features a glass pentaprism viewfinder



specifically designed to match the size of its CCD and offers 0.95X magnification and an impressive 95% field of view.

Built-in and external flash functionality

The *istD comes complete with a built-in flash that broadens the scope of shooting. Featuring P-TTL functionality, it pre-discharges to achieve greater precision and offers a separate pre-discharge for "red-eye" reduction*. There's also a range of advanced features that become available when the built-in flash is used in combination with the AF360FGZ external auto flash unit. These comprise quantitative control in relation to built-in flash discharge, wireless operation, trailing shutter sync, and high-speed sync.

* This feature does not eliminate "red eyes" in all instances.

Stainless steel chassis for increased rigidity, minimal weight, and compact dimensions

Employing a chassis that's only 1-1.2mm thick, the *istD has a truly lightweight design. Yet, thanks to the use of low-temperature pressurized stainless steel reinforced through reheating, it retains admirable torsional rigidity. Additionally the space within the chassis has been used in the most efficient manner possible, allowing ultra-compact dimensions to be achieved without a sacrifice in functionality.



revolution in self-expression

An impressive array of digital shooting modes

A choice of auto, preset, and manual settings for white balance

With the convenience of automatic white balance, the *istD assures pleasing color recording across a range of different lighting circumstances. What's more, it also offers the ability to preset 8 types of light source, and manual settings are also available — allowing you to select the desired color temperature values for each situation or memorize the color temperature values of the conditions at hand.

Three-step control over sharpness, contrast, and intensity

In order to produce images that emphasize clarity, differences in shade, and general saturation, the *istD gives you the ability to alter sharpness, contrast, and color intensity in three steps. Such functionality gives you a surprising amount of leeway in creating shots that really satisfy.

Expressive histogram display

With histogram display of color saturation distribution on the LCD monitor, the *istD gives you the necessary exposure level information to evaluate each shot and make adjustments where necessary.

22 custom functions that enhance your individuality

At PENTAX, we know photography is all about individuality. That's why we made operation customizable — allowing you to tailor an impressive 22 functions to suit your specific tastes, ranging from the program line to the steps involved in exposure selection.

Quality that extends from composition through to playback

Crystal clear display

The *istD is equipped with a 1.8-inch, low-temperature, polysilicon TFT LCD monitor. Featuring approximately 1.18 million pixels, it allows you to check closely for focusing with confidence. It makes recorded images easy to see in all kinds of circumstances, and offers display functions including 1 frame, 9-frame multiple, zooming to 12X, slide show, and image rotation.

Exclusive PENTAX PHOTO Browser software*1

The *istD can be easily connected to a PC via the USB cable included. The camera is also bundled with PENTAX PHOTO Browser, which can be found on the PENTAX Software S-SW10 CD-ROM. Used together, these allow images to be transferred for greater viewing ease.

PENTAX PHOTO Browser™

PENTAX

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A selection of image formats; a choice of sizes

Because digital photographers make different uses of their shots, the *istD offers a choice of image recording qualities and sizes. In addition to three different JPEG modes, it also offers the choice of non-compressed TIFF format — all of which are available in small, medium, and large sizes. There's even the option of RAW format too, which records all the information available from the CCD.

Recording format	Image size (pixels)	Approx. no. of recordable frames				
		128MB	256MB	512MB	1GB	
JPEG	★ Good	Large 3008 x 2008	346	701	1412	2832
		Middle 2400 x 1600	163	335	676	1350
		Small 1536 x 1024	106	222	452	908
	★★ Better	Large 3008 x 2008	196	401	812	1636
		Middle 2400 x 1600	80	172	354	716
		Small 1536 x 1024	50	111	232	473
	★★★ Best	Large 3008 x 2008	106	222	452	908
		Middle 2400 x 1600	38	87	185	382
		Small 1536 x 1024	25	57	119	243
TIFF (Non compressed)	Large 3008 x 2008	26	52	104	209	
	Middle 2400 x 1600	10	21	43	87	
	Small 1536 x 1024	6	14	27	55	
RAW (Non compressed)	Large 3008 x 2008	7	16	34	70	

Note: A choice of 1,152 x 768-pixel or 960 x 640-pixel recording is available for "small" size when using the Custom Function. Your selection will determine the total number of recordable images.

Exclusive software*2 for RAW data

PENTAX PHOTO Laboratory is included on the *istD's accompanying CD-ROM. This useful software makes RAW data exceptionally easy to process and gives you the freedom not only to specify image format and size, but also to fine tune white balance, color tone, contrast, color saturation, sharpness, and color balance.

PENTAX PHOTO Laboratory™



*1*2 System requirements

PCs running Windows Me/2000/XP (home and professional editions) with a Pentium III CPU or higher, over 70MB of available hard disk capacity, and a standard USB port.

Macintosh machines running Mac OS 9.0 or higher (CarbonLib 1.5 or later), Mac OS X 10.1.3 or higher with a Power PC G3 CPU or higher, over 70MB of available hard disk capacity, and a standard USB. Compliance with the aforementioned system requirements does not guarantee all operations.

A choice of power sources

With the *istD, you have the freedom to choose the source of power. Just select whichever you find most convenient from the two included CR-V3 lithium batteries, four AA batteries, or an optional AC adapter. AA Ni-MH batteries can also be used, which can be conveniently recharged.

A versatile grip that extends shooting life

The D-BG1 grip enhances versatility and extends operation. Easily attached to the *istD without removing the camera's batteries, its ergonomic design gives you a better grip. It also houses four AA batteries that supply additional power and features a shutter release, Av/Tv dials, a preview button, and an AE lock — all ideally located for vertical compositions.



Specifications

Type	TTL autofocus, auto-exposure SLR digital-still camera with built-in retractable P-TTL auto flash
Effective Pixels	6.1 megapixels
Sensor	6.31 megapixels Interline interlace CCD
Size	23.5 x 15.7mm
Color Depth	8 bit (JPEG, TIFF) or 12 bit (RAW)
Recording pixels	[Large] 3008 x 2008, [Middle] 2400 x 1600, [Small*] 1536 x 1024 *A choice of 1152 x 768 or 960 x 640 is possible with Custom Function.
Sensitivity	Equivalent to ISO 200 ~ 1600 (ISO 3200 is possible with Custom Function)
Recording Formats	Exif 2.2, DCF (Design rule of Camera File system), DPOF (Digital Print Order-Format)
Image Formats	Compressed JPEG - Baseline (★★★: Best, ★★: Better, ★: Good) Non-compressed TIFF Ver.6.0 RAW
Storage Media	CompactFlash™ (Type I / Type II) and Microdrive™
Card Format	Unified standard of PCMCIA/EIDA (PC Card Standard - 1995)
Lens Mount	PENTAX K _w bayonet mount (with AF adapter)
Usable Lenses	PENTAX K _w , K _w , and K _w -mount lenses. Note: Power zoom function not available. K-mount lenses usable with restrictions. S-mount lenses usable with adapter. 67 / 645 lenses usable with adapter and with restrictions.
Focusing System	
Type	TTL Phase-matching 11-point autofocus system (SAFOX VIII)
Applicable illumination range	0-19EV (at Sensitivity 200 with 50mm F1.4 lens)
Mode	(1) AF-single (with focus lock); (2) AF-Continuous (with Predictive AF mode); (3) Manual focus
Exposure Control	
Metering System	TTL open-aperture 16-segment metering (coupled with lens and AF information)
Metering Mode	(1) Multi-segment metering (2) Center-weighted metering (3) Spot metering

Metering Range	1- 21EV (at Sensitivity 200 with 50mm F1.4 lens)
Modes	(1) Program AE; (2) Hyper Program; (3) Shutter-Priority AE; (4) Aperture-Priority AE; (5) Hyper Manual; (6) Bulb; (7) TTL Program Auto Flash (8) High-speed syncro mode
Exposure Compensation	±2 EV (1/3 steps) or ±3 EV (1/2 steps)
AE Lock	20-second AE lock with AE lock button (AE lock extendable)
Auto-bracketing	3 frames within range of ±0.3EV, ±0.7EV, ±1.0EV (0.3EV steps) or ±0.5EV, ±1.0EV, ±1.5EV (0.5EV steps)
Multiple Exposure	Unrestraint
White Balance	Auto, Daylight, Shade, Tungsten Light, Fluorescent Light (W, D, N), Manual setting (3 kinds of settings can be manually registered)
Shutter	
Type	Electronically controlled vertical-run focal plane shutter
Speed	1/4000 ~ 30 sec. and bulb
Drive Modes	Single-frame advance, continuous advance, self-timer, and remote control
Viewfinder	
Type	Pentaprism
Focusing screen	Natural-Bright-Matte focusing screen
Field of view	95%
Magnification	0.95X (with 50mm F1.4 lens at infinity, -1m ⁻¹)
Dioptr adjustment	-2.5 - +1.5m ⁻¹
Viewfinder Indication	(1) AF frame; (2) Spot AF frame
Viewfinder LCD Indication	(1) In focus; (2) Flash information; (3) Shutter speed; (4) Aperture value; (5) Focus point indication (Lighted in red); (6) Exposure compensation factor; (7) Bar graph; (8) Auto-Exposure lock signal
Mode Dial Indication	(1) Sensitivity setting; (2) Image format and quality setting; (3) White balance setting; (4) Program AE; (5) Hyper Program; (6) Shutter-Priority AE; (7) Aperture-Priority AE; (8) Hyper Manual; (9) Bulb
External LCD Panel Indication	(1) Image storage capacity; (2) Data format; (3) Tv direct dial; (4) Av direct dial; (5) Shutter speed; (6) Aperture value; (7) Exposure compensation factor;

	(8) Exposure frame number; (9) Battery information; (10) Flash information; (11) Auto flash function; (12) Red-eye reduction flash; (13) Wireless flash mode; (14) High-speed flash sync; (15) Remote control; (16) Self-timer; (17) Single-frame advance / Continuous advance; (18) Multiple exposure; (19) Auto bracketing; (20) Auto white balance; (21) Preset white balance; (22) Manual white balance
LCD Monitor	
Type	1.8inch TFT color LCD monitor
Pixels	118,000 pixels
Play back function	Single-image, Nine-image, Zoom-in, Zoom-out, Slide show, Quick view (quick playback after shooting), single-image with data, Rotating image
Protect and delete function	
Protect	A single frame or all frames can be protected or unprotected
Delete	A single frame, all frames, card format
Built-in Flash	
Type	Series-control retractable P-TTL pop-up flash
Guide number	36 (Sensitivity 100.ft.), 51 (Sensitivity 200.ft.)
Angle of view coverage	28mm wide-angle (equivalent to 35mm)
Flash Synchronization	With RTF and via hot shoe Sync speed: 1/150 sec. set automatically with RTF or PENTAX dedicated flash unit at recharge completion
Self-timer	Electronically controlled type with 12-second delay. (Two-second delay available with Custom Function.) Cancellation possible
Custom Function	22 custom-programmable functions available
Main switch	(1) ON (2) OFF; (3) Depth of field preview
Interfaces	USB 1.1
Video Output	Compatible with NTSC and PAL formats
Power Sources	Two CR-V3 lithium batteries, four AA (lithium, rechargeable Ni-MH, and alkaline) batteries. Optional AC adapter also available.
Dimensions	5.1 x 3.7 x 2.4 inches (129(W) x 94.5(H) x 60(D)mm)
Weight	19.4 oz. (550g) without battery and storage media.

Compatible AF lenses

Lens name Focal length (mm) / F-stop	35mm format-equivalent focal length*	Lens construction (groups/elements)	Built-in flash compatibility
Wide-angle			
smc PENTAX-FA20mm F2.8	30.5mm	9-10	○
smc PENTAX-FA*24mm F2.8 AL [IF]	37mm	9-11	○
smc PENTAX-FA28mm F2.8 AL	43mm	5-5	○
smc PENTAX-FA31mm F1.8AL Limited	47.5mm	7-9	○
smc PENTAX-FA35mm F2 AL	53.5mm	5-6	○
Standard			
smc PENTAX-FA43mm F1.9 Limited	66mm	6-7	○
smc PENTAX-FA50mm F1.4	76.5mm	6-7	○
smc PENTAX-FA50mm F1.7	76.5mm	5-6	○
Telephoto			
smc PENTAX-FA77mm F1.8 Limited	118mm	6-7	○
smc PENTAX-FA*85mm F1.4 [IF]	130.5mm	7-8	○
smc PENTAX-FA135mm F2.8 [IF]	207mm	7-8	○
smc PENTAX-FA*200mm F2.8 ED [IF]	307mm	8-9	○
smc PENTAX-FA*300mm F2.8 ED [IF]	460mm	7-10	×
smc PENTAX-FA*300mm F4.5 ED [IF]	460mm	7-9	×
smc PENTAX-FA*400mm F5.6 ED [IF]	613.5mm	8-9	○
smc PENTAX-FA*600mm F4 ED [IF]*	920.5mm	7-9	×
Zoom			
smc PENTAX-FA J Zoom 18mm-35mm F4-F5.6 AL	27.5-53.5mm	10-12	△
smc PENTAX-FA Zoom 20mm-35mm F4 AL	30.5-53.5mm	8-10	○
smc PENTAX-FA Zoom 24mm-90mm F3.5-F4.5 AL [IF]	37-138mm	11-13	○

Lens name Focal length (mm) / F-stop	35mm format-equivalent focal length	Lens construction (groups/elements)	Built-in flash compatibility
ZOOM			
smc PENTAX-FA* Zoom 28mm-70mm F2.8 AL	43-107.5mm	11-14	△
smc PENTAX-FA Zoom 28mm-70mm F4 AL	43-107.5mm	7-9	○
smc PENTAX-FA J Zoom 28mm-80mm F3.5-F5.6 AL	43-122.5mm	8-8	○
smc PENTAX-FA Zoom 28mm-80mm F3.5-F5.6	43-122.5mm	8-8	○
smc PENTAX-FA Zoom 28mm-90mm F3.5-F5.6	43-138mm	8-10	○
smc PENTAX-FA Zoom 28mm-105mm F3.2-F4.5 AL [IF]	43-161mm	11-12	○
smc PENTAX-FA Zoom 28mm-105mm F4-F5.6 [IF]	43-161mm	12-15	○
smc PENTAX-FA Zoom 28mm-105mm F4-F5.6	43-161mm	11-13	○
smc PENTAX-FA Zoom 35mm-80mm F4-F5.6	53.5-122.5mm	6-7	○
smc PENTAX-FA J Zoom 75mm-300mm F4.5-F5.8 AL	115-460mm	10-12	○
smc PENTAX-FA* Zoom 80mm-200mm F2.8 ED [IF]	122.5-307mm	13-16	○
smc PENTAX-FA Zoom 80mm-200mm F4.7-F5.6	122.5-307mm	7-11	○
smc PENTAX-FA Zoom 80mm-320mm F4.5-F5.6	122.5-491mm	10-13	○
smc PENTAX-FA Zoom 100mm-300mm F4.7-F5.8	153.5-460mm	9-11	○
smc PENTAX-FA* Zoom 250mm-600mm F5.6 ED [IF]*	383.5-920.5mm	16-18	×
Macro			
smc PENTAX-FA Macro 50mm F2.8	76.5mm	7-8	○
smc PENTAX-FA Macro 100mm F2.8	153.5mm	8-9	○
smc PENTAX-FA Macro 100mm F3.5	153.5mm	4-5	○
smc PENTAX-FA* Macro 200mm F4 ED [IF]	307mm	9-12	○
Fish-eye zoom			
smc PENTAX-F Fish eye zoom 17mm-28mm F3.5-F4.5	-	7-9	△

Note: All PENTAX lenses featuring an "A" position (auto aperture) are compatible with the *ist D. Lenses without an "A" position may be made compatible through use of the *ist D's Custom Function, however this may restrict aperture availability. Regarding built-in flash use, lenses marked with an ○ can be used with the built-in flash, provided there is no hood and a filter is

* 35mm format equivalent based on 1.53 conversion factor.

incorporated. The △ mark indicates that a lens may be used with the built-in flash, however quality of exposure at frame edges may be compromised due to selected focal length or shadows cast by the lens cylinder. An × mark indicates that a lens should not be used with the built-in flash due to insufficient exposure at frame edges or shadows cast by the lens cylinder.

* Manufactured upon receipt of order.

Items included with ***istD** Two CR-V3 lithium batteries / Video Cable / Software (CD-ROM) / Strap / USB cable **Optional accessories** Camera case / AC Adapter kit / Battery Grip D-BG1 / AF360FGZ / AF500FTZ / Cable switch CS-205 / Remote control F

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- It is strongly recommended that you read the entire operation manual before operating this digital camera.
- LCD image are simulated.
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