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PENTAX Optio Z10 –A compact digital camera equipped with 7X optical zoom in a small and lightweight body, enabling enjoyment of high-magnification photography

PENTAX Corporation is pleased to announce the PENTAX Optio Z10, a compact digital camera equipped with a high-magnification 7X optical zoom lens that is convenient for various photography scenes.

The Optio Z10 is equipped with 7X optical zoom lens, the highest magnification among current PENTAX compact digital camera models, built in a small and lightweight body of easy mobility. In addition, the Optio Z10 has a high resolution of 8.0 effective megapixels, and features shake reduction that allows stress-free telephoto photography, and face recognition with high-speed detection time. In all, the Optio Z10 is a model that everyone can easily enjoy photography with high magnification and high image quality.

Main Features:
1.   High magnification 7X optical zoom
The Optio Z10 includes a 7X optical zoom lens that covers focal lengths from 6.3 to 44.1mm (equivalent to 38-266mm for 35mm format) and features a refraction lens system so the lens never protrudes from the camera while zooming. This optical zoom covers a broad range, from wide-angle to telephoto zoom, and when used together with digital zoom, ultra high-magnification photography of up to approximately 35.7X is available.

2.   High-speed "Face Recognition AF&AE" function of approximately 0.03 seconds
The Optio Z10 is equipped with the "Face Recognition AF&AE" function[*1] that automatically adjusts the focuses and sets the exposure, so users can take the photos of people easily and beautifully, by letting the camera do the work. In addition, this function can detect the faces of up to 15 peoples at once, and the detection time has been reduced to approximately 0.03 seconds at minimum.
[*1]: Available when the picture mode is "Natural Skin Tone", "Portrait", or "Kid", and the camera is directed at people from the front

3.   Digital SR

Digital SR (Shake Reduction) mode reduces camera shakes and blurring of the subject when photographing still images. The sensitivity is adjusted automatically, to as high as the ultrahigh sensitivity of ISO 3200, to match the brightness of the subjects. This enables photography with fast shutter speeds, and images with less blurs can be obtained. In addition, an electronic shake reduction function corrects blurring in images during image playback.

4. Auto Picture mode automatically determines the best setting for the shooting conditions

The Auto Picture mode lets the camera automatically determine the shooting conditions for Landscape, Portrait, Night Scene, and Normal mode and choose the optimum settings for each subject. This function makes photography a lot easier for users since it eliminates the necessity of making a number of individual settings.

5. Easily viewable LCD monitor with a wide viewing angle

The Optio Z10 comes with a high resolution, a 2.5-inch LCD monitor with approximately 230,000 pixels that enables images and the text to be displayed largely and clearly. The LCD monitor has a wide viewing angle of 170 degrees from all directions, making it easy to confirm images, even when looking at the screen diagonally.

6. 8.0 effective megapixels produces exceptionally fine-detailed photos

Optio Z10 delivers high resolution photos that look sharp even at large magnifications, thanks to its 8.0 effective megapixels and high performance PENTAX lens, which precisely captures images down to the finest details.

7. High quality recording with shake reduction function

The Optio Z10 smoothly captures movies at 30fps (frames per second) at sizes up to 640 x 480 pixels with image quality rivaling camcorders. In addition, Movie SR[*2] (Shake Reduction) function that effectively corrects in images due to camera shakes through software, allowing for movies to be taken more easily and without hassles.

[*2]: Using the "Movie SR" function results in a narrower field of view than that during normal video recording

8.   Other features

(1) Digital wide function converts two images into approximately 28mm wide angle expression (equivalent to 35mm format)
(2) Mode palette provide quick access to 15 shooting modes and 15 playback modes
(3) Data imprint function for easier image categorizing
(4) Approximately 52.1 MB of built-in-memory
(5) Compatible with SD memory cards and SDHC memory cards
(6) FotoNation's red-eye compensation function for flash shots
(7) Includes the ACDsee for PENTAX 3.0 image viewer/image management software that supports Windows Vista
(8) Support PictBridge, DPOF functions, Eixf Print, and PRINT Image Matching III

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   ◆ This product supports PRINT Image Matching III. PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant.

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   ◆ Red Eye software © 2003-2006 FotoNation Inc. Face Tracker software © 2005-2006 FotoNation Inc. In Camera Red Eye—covered by U.S. Patent No.6,407,777 and 7,042,505.

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Optio Z10 Specifications

Lens		PENTAX zoom lens 12 elements in 9 groups (2 single-sided aspherical element and 2 dual-sided aspherical elements)
	Focal Length	6.3mm-44.1mm (equivalent to 38-266 mm in 35mm format)
	Aperture	F3.5-F5.4
	Capturing Area	approx. 44.2 mm× 33.5 mm to the fullest of LCD (Macro mode:at tele setting. Taking a picture distance 0.3m)
	Intelligent Zoom	approx. 8.8X at 5M, approx. 9.9X at 4M, approx. 11.2X at 3M, approx. 14.3X at 2M, approx. 22.3X at 1024, approx. 35.7 at 640 (including optical 7X zoom)
	Digital Zoom	1X - approx. 5.1X(Up to approx. 35.7X with optical 7X zoom)
Shake Reduction	Still	Hi-sensitivity anti-shake mode (Digital SR)
	Movie	Movie anti-shake (Movie SR)
Focus System	Type	TTL contrast detection auto focus system 9-point AF, Spot AF, Auto tracking AF

	Still	Normal: 0.4m to infinity (at wide setting), 0.5m to infinity (at tele setting)
		   1.31ft to infinity (at wide setting), 1.64ft to infinity (at tele setting)
		Macro: 0.08m to 0.5m (at wide setting), 0.3m to 0.6m (at tele setting)
		   0.26ft to 1.64ft (at wide setting), 0.98ft to 1.97ft (at tele setting)
		Infinity-landscape, Panfocus, Manual Focus: available

Face recognition		* Face priority AF&AE is available at the Portorait, Natural skin tone and Kids mode.
Sensor		1/2.5 inch interline transfer CCD with a primary color filter, 8.29 megapixels (total pixels)
Effective pixels		8.0 megapixels
Recorded pixels	Still	8M(3264x2448), 5M(2592x1944), 4M(2304 x 1728), 3M(2048x1536), 2M(1600x1200), 1024(1024x768), 640(640x480) pixels * Frame Composite is fixed at 3M (2048x1536) * Digital Wide is fixed at 5M (2592x1944)
	Movie	640(640x480), 320(320x240) pixels
File Formats	Still	JPEG(Exif 2.2),DCF,DPOF,PRINT Image Matching III
	Movie	AVI (Motion JPEG), approx. 30fps / 15fps with sound Color mode : Full color, Sepia, Monochrome
	Sound	WAV(PCM), monaural
Quality Levels	Still	★★★(Best), ★★(Better), ★(Good)
	Movie	★★★(Best), ★★(Better), ★(Good)
Sensitivity		Auto(64-800),Fixed (ISO 64/100/200/400/800/1600/3200) * The sensitivity is auto selected up to 3200 at the Digital SR mode. * The range of auto sensitivity can be changed by the menu.
White Balance		Auto, Daylight, Shade, Tungsten light, Fluorescent light, Manual setting
LCD		2.5 inch, TFTcolor LCD, Wide viewing angle
		approx. 230,000 pixels
	Brightness level	2 steps (Economy mode and Normal mode)
Exposure Control	Metering System	TTL metering: Choice of Multi-segment metering, Center-weighted metering, Spot metering
	Exposure mode	Picture mode, Program
	Exposure Compensation	±2EV(1/3EV steps)
Capture modes		AUTO Picture, Program, Night Scene, Movie, Voice Recording, Landscape, Flower, Natural Skin Tone, Portrait, Surf&Snow, Sport, Digital SR, Kids, Pet, Food, Frame Composition, Digital Wide
	Auto Picture	Automatically chosen from "Landscape", "Portrait", "Night Scene" and "Normal"
	Date Imprint	*Date Imprint Available (except Green)
Playback modes		Digital SR, Slideshow, Resize, Trimming, Image&Sound Copy, Image Rotation, Digital Filter, Movie Edit, Frame Composite, Red-eye Compensation, Voice Memo, Protect, DPOF, Image Recovery, Start-up Image Setting
	Function	One Shot, Index (9 thumb nails), Enlargement (up to 8X, scroll available), Movie Playback, Sound Playback, Histogram, Bright and Dark portion, Folder display, Select&Delete, Calendar
	Digital Effect	B&W, Sepia, Color Filter (6 colors), Color extract (B&W with Red, B&W with Green, B&W with Blue), Soft, Fish Eye Filter, Brightness Filter
Movie	Shooting Time	Until the memory card becomes full (up to 2GB)
	Editing Function	Save as still image, Dividing Movies, Stitch Movies
Shutter Speed		approx. 1/1440 sec.- approx. 4sec.
Flash	Modes	Flash-on and Flash-off modes. "Red-eye" compensation function employs a pre-discharge

	Effective Range	Wide : approx. 0.16m to approx. 5.4m (ISO Auto)
		          approx. 0.52ft to approx. 17.7ft (ISO Auto)
		Tele : approx. 0.3m to approx. 4.0m (ISO Auto)
		          approx. 0.98ft to approx. 13.1ft (ISO Auto)

Drive Modes		One shot, Self-timer (10 sec, 2 sec), Continuous (Standard, Hi speed)
Storage Media		Built-in Memory (approx. 52.1MB), SD Memory Card, SDHC Memory Card
Clock Function	World Time	75 cities (28 time zones)
	Alarm clock	Available
	Style watch	Available
Power		Rechargeable D-LI72 lithium-ion battery, Optional AC adapter kit is also available
	Battery life	Still*: Approx. 180shots to be taken. (Rechargeable Lithium-ion battery)
Interfaces		USB (2.0 Hi-Speed)/AV, DC Input terminal
Video Output		NTSC/PAL
PictBridge	Modes	Single image, All images, DPOF, Paper Size, Paper Type, Paper Quality, Border
Dimensions		94(W)×58(H)×25.5(D)mm (excluding protrusions. 22mm at thinnest part)
Weight	Body	125 g (4.4oz.):without battery and SD memory card
	With battery & SD card	145 g (5.1oz.):loaded and ready
Accessories		Rechargeable D-LI72 lithium-ion battery, Charger, AC cable, USB cable, AV cable, Software (CD-ROM), Strap

*Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary according to operating conditions.

System requirements

ACDSee for PENTAX

Windows (ACDSee for PENTAX 3.0)

OS	Windows Vista ™, Windows XP,and Windows 2000
CPU	Intel Pentium3® or higher

Memory capacity	Over 256MB (512MB or higher recommended)
Hard disk capacity	Over 100MB (1GB or higher recommended)
Language	English, French, German, Spanish, Italian,Chinese[Traditional and Simplified], Korean, Russian, Japanese

Macintosh (ACDSee for PENTAX)

OS	Mac OS 9.2 (with the latest CarbonLib) , Mac OS X(Ver.10.1.2 or later)
CPU	Power Macintosh machines of 266MHz or higher
Memory capacity	8MB minimum
Hard disk capacity	6MB minimum
Language	English, French, German, Spanish, Italian, Japanese

USB

Windows

OS	Windows Vista ^{TM}, Windows XP,and Windows 2000 preinstalled

Macintosh

OS	Mac OS 9.2, Mac OS X(Ver.10.1.2 or later) preinstalled

Optio Z10 Storage

Still

	8M (3264x2448)			5M (2592x1944)			4M (2304x1728)			3M (2048X1536)			2M (1600X1200)			1024 (1024X768)			640 (640X480)		
	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
Built-in Memory*	13	26	40	21	40	58	26	52	75	33	65	95	52	87	128	104	175	222	208	303	416
64MB	15	30	47	24	47	67	30	61	88	38	75	110	61	101	149	121	203	258	242	352	484
128MB	32	62	95	49	95	137	62	124	178	77	153	223	124	206	301	244	412	522	489	712	979
256MB	62	121	186	97	186	267	121	242	346	151	299	435	242	401	586	476	802	1016	953	1386	1906
512MB	123	239	368	192	368	530	239	479	686	299	592	863	479	795	1162	944	1590	2014	1888	2747	3777
1GB	247	479	737	385	737	1060	479	956	1374	598	1185	1727	959	1591	2325	1889	3182	4030	3778	5496	7557
2GB	503	975	1499	778	1499	2119	975	1921	2794	1205	2364	3415	1921	3235	4728	3842	6147	7684	7684	10245	15368
4GB	989	1915	2943	1527	2943	4161	1915	3770	5484	2366	4641	6703	3770	6351	9282	7541	12066	15083	15083	20111	30167

* Approximately 52.1 MB

Movie

	640X480						320X240					
	30fps			15fps			30fps			15fps		
	★★★	★★	★	★★★	★★	★	★★★	★★	★	★★★	★★	★
Built-in Memory	49s	1m06s	1m41s	1m38s	2m13s	3m16s	1m19s	1m47s	2m31s	2m31s	3m28s	5m03s
64MB	57s	1m17s	1m57s	1m53s	2m34s	3m47s	1m32s	2m04s	2m56s	2m56s	4m02s	5m52s
128MB	1m56s	2m36s	3m57s	3m50s	5m13s	7m40s	3m06s	4m12s	5m55s	5m55s	8m09s	11m51s
256MB	3m47s	5m05s	7m42s	7m28s	10m10s	14m57s	6m03s	8m12s	11m33s	11m33s	15m53s	23m06s
512MB	7m31s	10m04s	15m15s	14m48s	20m08s	29m37s	11m59s	16m14s	22m53s	22m53s	31m28s	45m47s
1GB	15m02s	20m09s	30m32s	29m38s	40m18s	59m16s	23m59s	32m30s	45m48s	45m48s	1h02m58s	1h31m36s
2GB	30m08s	40m58s	1h00m16s	1h00m16s	1h18m48s	1h53m50s	48m47s	1h04m02s	1h33m08s	1h33m08s	2h08m04s	2h50m45s
4GB	59m09s	1h20m26s	1h58m18s	1h58m18s	2h34m42s	3h43m27s	1h35m46s	2h05m41s	3h02m49s	3h02m49s	4h11m23s	5h35m11s

The limitation of the record time becomes it up to 2GB (one file).

Voice recording

Built-in Memory	41m17s
64MB	47m58s
128MB	1h36m58s
256MB	3h08m53s
512MB	6h14m15s
1GB	12h28m41s
2GB	25h22m33s
4GB	49h49m27s

*The continuous voice recording time is 24 hours.