



# Informasjon

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## **PENTAX Optio S10 – A stylish, small, lightweight compact digital camera that pursues higher image quality and realizes 10.0 effective megapixels**

PENTAX Corporation is pleased to announce the new PENTAX Optio S10, the newest model in the "Optio S" series of highly acclaimed compact digital cameras, with a stylish and ultra-compact body and realizing 10.0 effective megapixels and high resolution images. In addition to enabling easy mobility and photography of high resolution images, the Optio S10 comes with enhanced usability by upgrading Shake Reduction and Face Recognition functions.



### **Main Features:**

#### **1. Ultra Compact body with a stylish design**

The Optio S10's compact design makes carrying more comfortable and convenient not only in travel and leisure but also in the daily snapshots and business scenes. The aluminum alloy adopted as outer cover gives a sophisticated texture to the camera, and the front face with glossy spindle finish creates an elegant appearance. Despite a 3X optical zoom lens and a large 2.5 inch LCD monitor, the Optio S10 realizes one of the smallest and the lightest ultra compact camera body with 10.0 megapixels, by miniaturizing circuit board and applying high-density compact mounting technology.

#### **2. 10.0 effective megapixels with high resolution**

With an upgraded 10.0 effective megapixels, the Optio S10 ensures much higher resolution and delivers clear and crisp photo even when images are enlarged to A3 (11.7 x 16.5 inch) size. A large 1/1.8 inch CCD with large sensing area is newly used for the image sensor, so it provides excellent performance for tone reproduction, texture delineation and noise reduction.

#### **3. Digital SR (Shake Reduction)**

Digital SR (Shake Reduction)<sup>\*2</sup> 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.

<sup>\*2</sup> :Recording image is fixed at 5M (2592x1944pixels) when "Digital SR" mode is selected

#### **4. "Face Recognition AF&AE" function that photographs portrait more beautifully with simple operation**

The Optio S10 is equipped with a "Face Recognition AF&AE" function\*<sup>3</sup> that automatically detects and focuses on faces. In addition, the Optio S10 also comes with new functions that apply face recognition technology, such as "Natural Skin Tone" mode, which smoothly presents skin texture based on the detected information, and "Half-length Portrait" mode\*<sup>4</sup>, which automatically takes close-up photograph of the upper body by trimming the people recognized in photo frame.

\*<sup>3</sup>: Available when the picture mode is "Portrait", "Natural Skin Tone", "Kids", or "Half-length Portrait" and the camera is directed at people from the front

\*<sup>4</sup>: Recording size is fixed at 3M (2048x1536 pixels) when "Half-length Portrait" mode is selected

This Camera's Face Recognition AF & AE function use the Face Tracker face-recognition technology from FotoNation.

#### **5. Auto Picture mode automatically determines the best settings for the shooting conditions**

The Auto Picture mode lets the camera automatically determines 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 eliminate the necessity of making a number of individual settings.

#### **6. Bright and easy-to view LCD monitor**

This LCD monitor is a high intensity type equipped with an LCD booster that adjusts the brightness of screen, which users can easily check the screen even at the outdoors. With 2.5-inch and high resolution of 232,000 pixels, it is easy to confirm picture compositions and the focus. Due to its wide viewing angle, the screen can also be easily viewed, since there is little change in brightness and colors even when looking at the monitor diagonally.

#### **7. Video recording function enabling high-quality recording for long period of time**

The Optio S10 smoothly captures movies at 30 fps (frames per second) at sizes up to 640x480 pixels with image quality rivaling camcorders. Since it employs the DivX® (MPEG-4) movie format\*<sup>5</sup>, the Optio S10 can record long, high-quality movies. In addition, Movie SR (Shake reduction) effectively corrects blurring in images through software, so it enables users to easily enjoy movie recording.

\*<sup>5</sup>: The Optio S10 is DivX® certified. Movie playback is not supported on Macintosh operating systems

#### **8. Other features**

- (1) A "Green button" that enables you to assign functions that are frequently used, and recall them in just one touch
- (2) An "Intelligent zoom" function which enables images to be magnified even larger and stored, while maintaining the image quality of optical zoom
- (3) Mode palette provide quick access to 18 shooting modes and 15 playback modes
- (4) Data imprint function for easier image categorizing
- (5) Approximately 22.0 MB of built-in-memory
- (6) Compatible with SD memory cards and SDHC memory cards
- (7) FotoNation's red-eye compensation function for flash shots
- (8) Includes the ACDsee for PENTAX image viewer/image management software
- (9) 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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- 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 S10 Specifications

<b>Lens</b>		smc PENTAX zoom lens, Optical 3X zoom 7 elements in 5 groups (2 dual-sided aspherical elements, 1 single-sided aspherical element)
	<b>Focal Length</b>	7.9mm-23.7mm (equivalent to 38-114mm in 35mm format)
	<b>Aperture</b>	F2.8-F5.4
	<b>Capturing Area</b>	approx. 65.9mmx48.8mm to the fullest of LCD (at super Macro mode)
	<b>Intelligent Zoom</b>	approx. 3.6X at 7M, approx. 4.2X at 5M, approx. 5.3X at 3M, approx. 6.7X at 2M, approx. 10.4X at 1024, approx. 16.3X at 640 (including optical 3X zoom)
	<b>Digital Zoom</b>	1X - approx. 5.4X (up to approx.16.3X with optical 3X zoom)
<b>Shake Reduction</b>	<b>Still</b>	Hi-sensitivity anti-shake mode (Digital SR)
	<b>Movie</b>	Movie anti-shake (Movie SR)
<b>Focus System</b>	<b>Type</b>	TTL contrast detection auto focus system, AF assist lamp available 5-point AF, Spot AF, Tracking AF
	<b>Still</b>	Normal: 0.35m to infinity (whole zoom area) 1.15ft to infinity (whole zoom area) Macro:0.12m to 0.4m (at full wide-angle setting - 11.5mm) 0.39ft to 1.31ft (at full wide-angle setting - 11.5mm) Supermacro:0.06m to 0.15m(at full wide-angle setting) 0.20ft to 0.49ft(at full wide-angle setting) Infinity-landscape, Panfocus, Manual Focus: available
<b>Face recognition</b>		Face priority AF&AE is available at the Natural skin tone, Portrait, Half-length Portrait and Kids mode.
<b>Sensor</b>		10.37 megapixels (total pixels) 1/1.8 inch interline transfer CCD with a primary color filter
<b>Effective pixels</b>		10 megapixels
<b>Recorded pixels</b>	<b>Still</b>	10M(3648x2736), 7M ( 3072 x 2304 ) , 5M(2592x1944), 3M(2048x1536) , 2M(1600x1200), 1024(1024x768), 640(640x480) pixels * During Digital SR mode, the recorded size is fixed to 5M. * During Half-length Portrait and Flame composition mode, the recorded size is fixed to 3M.
	<b>Movie</b>	640(640x480), 320(320x240) pixels
<b>File Formats</b>	<b>Still</b>	JPEG(Exif 2.2),DCF,DPOF,PRINT Image Matching III
	<b>Movie</b>	AVI(DivX® compatible with MPEG-4), 30 fps, with sound, Movie anti-shake (The input image signal at 25fps is recorded as 30fps.)
	<b>Sound</b>	WAV(PCM), monaural
<b>Quality Levels</b>	<b>Still</b>	★★★(Best), ★★(Better), ★(Good)
	<b>Movie</b>	★★★(Best), ★★(Better), ★(Good)
<b>Sensitivity</b>		Auto(ISO64 - 800), Manual (ISO64/100/200/400/800/1600) * The auto and fixed sensitivity can be selected up to 3200 at the Digital SR mode. * The range of auto sensitivity can be changed by the menu.
<b>White Balance</b>		Auto, Daylight, Shade, Tungsten light, Fluorescent light, Manual setting
<b>LCD</b>		2.5 inch, TFT color LCD (with back light), approx. 232,000pixels, field of view:approx.100% Low reflection type, Wide viewing angle
	<b>Brightness level</b>	3 steps (Economy mode, Normal mode and LCD Bright Mode)
<b>Exposure Control</b>	<b>Metering System</b>	TTL metering: Choice of Multi-segment metering, Center-weighted metering, Spot metering
	<b>Exposure mode</b>	Picture mode, Program
	<b>Exposure Compensation</b>	±2EV(1/3EV steps)
<b>Capture modes</b>		Auto Picture, Program, Night Scene, Movie, Voice Recording, Landscape, Flower, Natural skin tone, Portrait, Half-length Portrait, Kids, Digital SR, Sport, Surf&Snow, Pet, Text, Food, Frame Composite
	<b>Auto Picture</b>	Automatically chosen from "Landscape", "Portrait", "Night Scene" and "Normal"
	<b>Date Imprint</b>	*Date Imprint Available (except Green)
<b>Playback modes</b>		Slideshow, Resize, Trimming, Image&Sound Copy, Image Rotation, Color Filter, Digital Filter, Brightness Filter, Movie Edit, Red-eye Compensation, Voice Memo, Protect, DPOF, Start-up Screen, Frame Composite
	<b>Function</b>	One Shot, Index (9 thumb nails), Enlargement (up to 8X, scroll available), Movie Playback, Sound Playback, Histogram, Select&Delete, Calendar
	<b>Digital Effect</b>	Color Filter(13), Digital Filter(5), Brightness Filter
<b>Movie</b>	<b>Shooting Time</b>	Until the memory card becomes full (One file size is up to 2GB)
	<b>Editing Function</b>	Save as still image, Divide movies, Extract movies
<b>Shutter Speed</b>		approx. 1/2000 sec. - approx. 4sec.
<b>Flash</b>	<b>Modes</b>	Flash-on and Flash-off modes. "Red-eye" reduction function employs a pre-discharge. Soft flash
	<b>Effective Range</b>	Wide : approx. 0.06m - approx. 7.1m (Standard Output Sensitivity Auto) approx. 0.20ft - approx. 23ft (Standard Output Sensitivity Auto) Tele : approx. 0.35m - approx. 3.5m (Standard Output Sensitivity Auto) approx. 1.15ft - approx. 11ft (Standard Output Sensitivity Auto)
<b>Drive Modes</b>		One shot, Self-timer (10 sec, 2 sec), Continuous, Remote Control (3 sec, 0 sec) *Remote Control Type is Infrared rays, Optional transmitter available.
<b>Storage Media</b>		Built-in Memory (approx. 22MB), SD Memory Card, SDHC Memory Card
<b>Clock Function</b>	<b>World Time</b>	75 cities (28 time zones)
<b>Power</b>		Rechargeable D-Li68 lithium-ion battery, Optional AC adapter kit is also available
	<b>Battery life</b>	Still*: approx. 250 (Rechargeable Lithium-ion battery) Playback: approx. 240 mins (Rechargeable Lithium-ion battery) Maximum charging time: approx. 115 mins (Rechargeable Lithium-ion battery)
<b>Interfaces</b>		USB2.0(HI-SPEED), AV output terminal, DC input terminal
<b>Video Output</b>		NTSC/PAL
<b>PictBridge</b>	<b>Modes</b>	Single image, All images, DPOF, Paper Size, Paper Type, Paper Quality, Border
<b>Dimensions</b>		87.0(W)x54.0(H)x21.0(D)mm (excluding protrusions)
<b>Weight</b>	<b>Body</b>	110g (without battery and SD memory card), 3.9oz
	<b>With battery &amp; SD card</b>	130g (loaded and ready) 4.6oz
<b>Accessories</b>		Rechargeable D-Li68 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)

<b>OS</b>	Windows Vista™, Windows XP, and Windows 2000
<b>CPU</b>	Intel Pentium3® or higher
<b>Memory capacity</b>	Over 256MB (512MB or higher recommended)
<b>Hard disk capacity</b>	Over 100MB (1GB or higher recommended)
<b>Language</b>	English, French, German, Spanish, Italian, Chinese[Traditional and Simplified], Korean, Russian, Japanese

#### Macintosh (ACDSee for PENTAX)

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

## USB

### Windows

<b>OS</b>	Windows Vista™, Windows XP, and Windows 2000 preinstalled
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### Macintosh

<b>OS</b>	Mac OS 9.2, Mac OS X(Ver.10.1.2 or later) preinstalled
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## Optio S10 Storage

### Still

	10M (3648 x 2736)			7M (3072 x 2304)			5M (2592 x 1944)			3M (2048x1536)			2M (1600x1200)			1024(1024x768)			640(640x480)		
	***	**	*	***	**	*	***	**	*	***	**	*	***	**	*	***	**	*	***	**	*
Built-in memory	5	9	12	8	13	18	12	18	26	19	29	40	28	41	57	52	75	105	96	140	194
<b>64MB</b>	18	26	37	25	37	52	36	53	74	56	81	113	78	114	158	144	208	289	265	383	531
<b>128MB</b>	37	54	76	53	77	107	75	109	151	114	165	229	160	232	322	292	423	586	537	776	1076
<b>256MB</b>	75	109	152	107	155	215	151	218	303	229	331	459	321	464	643	584	845	1170	1072	1550	2146
<b>512MB</b>	147	213	296	208	302	418	293	424	588	444	642	890	623	900	1247	1133	1638	2268	2079	3004	4160
<b>1GB</b>	296	428	594	418	605	838	588	850	1178	891	1287	1783	1247	1802	2496	2269	3278	4540	4161	6012	8324
<b>2GB</b>	604	873	1209	852	1232	1706	1198	1731	2397	1813	2619	3627	2539	3667	5079	4617	6669	9235	8465	10000	10000
<b>4GB</b>	1187	1716	2376	1675	2420	3351	2353	3400	4708	3561	5144	7123	4986	7203	9973	9067	10000	10000	10000	10000	10000

### Movie

	640X480			320X240		
	***	**	*	***	**	*
Built-in memory	1m3s	1m19s	1m35s	4m4s	5m4s	5m50s
<b>64MB</b>	2m55s	3m39s	4m23s	11m17s	14m1s	16m9s
<b>128MB</b>	5m55s	7m25s	8m55s	22m56s	28m29s	32m51s
<b>256MB</b>	11m51s	14m50s	17m49s	45m50s	56m56s	1h5m39s
<b>512MB</b>	22m58s	28m47s	34m33s	1h28m53s	1h50m25s	2h7m18s
<b>1 GB</b>	46m0s	57m38s	1h9m11s	2h57m56s	3h41m3s	4h14m52s
<b>2 GB</b>	1h33m36s	1h57m15s	2h20m46s	6h2m0s	7h29m43s	8h38m30s
<b>4 GB</b>	3h3m49s	3h50m16s	4h36m26s	11h50m54s	14h43m9s	16h58m14s

### Voice recording

Built-in memory	24m3s
<b>64MB</b>	1h5m47s
<b>128MB</b>	2h13m19s
<b>256MB</b>	4h25m59s
<b>512MB</b>	8h35m26s
<b>1 GB</b>	17h11m28s
<b>2 GB</b>	34h58m0s
<b>4 GB</b>	68h39m39s