

Information

PENTAX

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Embargo: October 2, 2007

PENTAX Optio A40 – A top class, compact digital camera with 12.0 effective megapixels

PENTAX Corporation is pleased to announce the PENTAX Optio A40, the latest model in the "Optio A" series- PENTAX's top class compact digital cameras that purse high image quality and high performance. The Optio A40 has an increased 12.0 effective megapixels and high image quality rivaling that of SLR cameras.



Main Features:

1. 12.0 effective megapixels for higher image quality and enhanced performance

The Optio A40 is PENTAX's first digital camera with 12.0 effective megapixels, which enables for ultra high-definition images. It is newly equipped with a large, 1/1.7-inch CCD that has a wide light receiving area that is superior in tone reproduction. Through the incorporation of a new image engine that has excellent color reproducibility and smc PENTAX lens, which has a reputation as having high resolving power, the Optio A40 pursues even higher image quality and further enhanced performance.

2. Three types of anti-shake functions to suit any photography situation

(1) SR(Shake Reduction) mechanism

The SR mechanism is unique to PENTAX, and corrects camera shakes when photographing still images by shifting the image sensor (CCD) horizontally and vertically in relation to the amount of shaking that the high-accuracy gyro sensor detects. The shake reduction technology used in PENTAX's digital SLR cameras is applied to the Optio A40 as well, and highly corrective effects that are equivalent to shutter speeds of approximately 2.5 to 3.5 steps can be achieved.

(2) "Digital SR" (Shake Reduction) *1

Digital SR (Shake Reduction) mode automatically adjusts sensitivity, to as high as the ultrahigh sensitivity of ISO 3200 according to the brightness of the subjet, and effectively reduces camera shakes and subject blurring when photographing still images. With fast shutter speeds, photography with reduced blurring is available.

(3) "Movie SR" (Shake Reduction) *2

The Movie SR function electronically reduces camera shakes exclusively during the shooting of movies. This function uses software to effectively correct distortions in images caused by camera shakes during the capturing of movies.

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

The Optio A40 is equipped with a "Face Recognition AF&AE" function*3 that automatically detects and focuses on faces. In addition, the Optio A40 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*4, which automatically takes a close-up photograph of the bust by trimming the people recognized in photo frame.

4. New "Dynamic Range Adjustment" function to prevent white outs and black outs

The Optio A40 is newly equipped with a "Dynamic Range Adjustment" to prevent white outs and black outs by correcting the tones for the highlighted areas or the shadowed areas of a subject with significant differences in contrast. When photographing people against the sun, it is possible to deposit subjects brightly while keeping the tones of the background

5. 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 approximately 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.

6. 3X optical zoom and 6X digital zoom for a maximum of 17.9X magnification The Optio A40 features a 3X optical zoom lens with a focal range covering angles of view equivalent to those of a 37-111mm lens in 35mm format, which is ideal for a broad spectrum of subjects from landscapes, through memorial photographs,

^{*1:} Recording size is fixed at 5M(2592x1944 pixels) when "Digital SR" is selected

^{*2:} When using "Movie SR", the field of view is narrower than that during normal recording

^{*3:} This Camera's "Face Recognition AF&AE" function uses the Face Tracker face recognition technology from FotoNation.

^{*4:} Recording size is fixed at 3M (2048x1536 pixels) when "Half-length Portrait" is selected

to portraits. Such zooming power can also be combined with 6X digital zoom to achieve a total of approximately 17.9X zoom capability.

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

The Optio A40 smoothly captures movies at 30fps (frames per second) at sizes up to 640x480 pixels with image quality rivaling camcorders. Since it employs the DivX® (MPEG-4) movie format*5, the Optio A40 can record long, high-quality movies.

*5:The Optio A40 is DivX® certified. Movie playback is not supported on Macintosh operating system

8. Others

Users can freely choose "Shutter-Priority AE" mode and "Manual Exposure" mode, depending on the effect they are aiming to achieve

An "Intelligent zoom" function enables images to be magnified shooting, while maintaining the image quality of optical zoom

"Auto Picture" mode automatically determines the best settings for the shooting conditions

Mode palette provide quick access of 18 shooting modes and 15 playback modes

Approximately 21.0 MB of built-in-memory

Compatible with SD memory cards and SDHC memory cards

FotoNation's red eye compensation function for flash shots

Includes the ACDSee for PENTAX 3.0 image viewer/image management software that support Windows VistaTM

Support PictBridge, DPOF functions, Exif 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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Lens		smcPENTAX zoom lens					
Lens	f=	7 elements in 5 groups (2 dual-sided aspherical elements, 1 single-sided aspherical element					
	Focal Length	7.9mm-23.7mm (equivalent to 37-111mm in 35mm format)					
	Aperture	F2.8-F5.4					
	Intelligent Zoom	approx. 3.3X at 10M, approx. 3.9X at 7M, approx. 4.6X at 5M, approx. 5.7X at 3M					
	D: 11.7	approx. 11.4X at 1024, approx. 17.9X at 640 (including optical 3X zoom)					
	Digital Zoom	1X - approx. 6X(Up to approx. 17.9X with optical 3X zoom)					
Shake Reduction	Still	CCD-Shift-Type (SR: Shake Reduction) approx. 2.5 - 3.5 Shutter-speed steps					
		Hi-sensitivity anti-shake mode (Digital SR)					
	Movie	Movie anti-shake (Movie SR)					
Focus System	Туре	TTL contrast detection auto focus system, AF assist lamp available					
		5-point AF, Spot AF, Auto tracking AF					
	Still	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					
Face recognition		Face priority AF&AE is available at all mode.					
Sensor		1/1.7 inch interline transfer CCD with a primary color filter, 12.4 megapixels (total pixels)					
Effective pixels		12 megapixels					
		12M(4000x3000), 10M(3648x2736), 7M (3072x2304), 5M(2592x1944), 3M(2048x1536),					
December 1 - 1 - 1 - 1 -	C4:11	1024(1024x768), 640(640x480) pixels					
Recorded pixels	Still	* During Digital SR mode and Multi-exposure mode, the recorded size is fixed to 5M.					
		* During Half-length Portrait and Flame composition mode, the recorded size is fixed to 3N					
	Movie	640(640×480), 320(320x240) pixels					
File Formats	Still	JPEG(Exif 2.2),DCF,DPOF,PRINT Image Matching III					
	Movie	AVI(DivX® compatible with MPEG-4), 30 fps, with sound, Movie anti-shake					
	MICAIG	(The input image signal at 25fps is recorded as 30fps.)					
	Sound	WAV(PCM), monaural					
Quality Levels	Still	$\star\star\star$ (Best), $\star\star$ (Better), \star (Good)					
	Movie	$\star\star\star$ (Best), $\star\star$ (Better), \star (Good)					
		Auto(ISO50 - 800), Manual (ISO50/100/200/400/800/1600)					
Sensitivity		* 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					
Dynamic-Range Ad	justment	Dynamic-Range Adjustment available (Auto and Manual Adjustments at Capture mode)					
White Balance		Auto, Daylight, Shade, Tungsten light, Fluorescent light, Manual setting					
LCD		2.5 inch, TFT color LCD (with back light), approx. 232,000pixels					
		Low reflection type, Wide viewing angle					
	Brightness level	3 steps (Economy mode, Normal mode and LCD Bright Mode)					
Exposure Control	Metering System	TTL metering: Choice of Multi-segment metering, Center-weighted metering, Spot metering					
	Exposure mode	Picture mode, Program, Shutter priority, Manua					
	Exposure Compensation						
		Auto Picture, Program, Shutter-priority, Manual, Night Scene, Movie, Voice Recording, Landscape					
Capture modes		Flower, Natural Skin Tone, Portrait, Half-length Portrait, Kids, Digital SR, Sport, Surf&Snow, Pet,					
	·	Text, Food, Frame Composite					
	Auto Picture	Automatically chosen from "Landscape", "Portrait", "Night Scene" and "Normal"					
	Date Imprint	*Date Imprint Available (except Green)					
Playback modes		Slideshow, Resize, Trimming, Image&Sound Copy, Image Rotation, Color Filter, Digital Filte					
. ,		Brightness Filter, Movie Edit, Red-eye Compensation, Voice Memo, Protect, DPOF, Start-up Scre					
	Function	One Shot, Index (9 thumb nails), Enlargement (up to 8X, scroll available), Movie Playback, Soun					
	Digital Effect	Playback, Histogram, Select&Delete, Calenda Color Filter(13), Digital Filter(5), Brightness Filter					
Movie	Shooting Time	Until the memory card becomes full (One file size is up to 2GB)					
Shutter Speed	Shouling Tillle	approx. 1/2000 sec approx. 4sec.					
	Modes						
Flash	Modes	Flash-on and Flash-off modes. "Red-eye" reduction function employs a pre-discharge. Soft flash					
	Effective Range	Wide: approx. 0.06m to approx. 7.1m (ISO Auto) approx. 0.20ft to approx. 23ft (ISO Auto)					
		Tele: approx. 0.35m to approx.3.5m (ISO Auto)					
		approx. 1.15ft to approx. 11ft (ISO Auto)					
	1	One shot, Self-timer (10 sec, 2 sec), Continuous, Remote Control (3 sec, 0 sec), Multi-exposure					
Drive Modes		*Remote Control Type is Infrared rays, Optional transmitter available					
Storage Media		Built-in Memory (approx. 21MB), SD Memory Card, SDHC Memory Card					
Clock Function	World Time	75 cities (28 time zones)					
Power	,	Rechargeable D-LI68 lithium-ion battery, Optional AC adapter kit is also available					
. 54101	Battery life						
	Dattery me	Still*: Approx. 240shots to be taken. (Rechargeable Lithium-ion battery)					
		Playback**: Approx. 250min. to be taken. (Rechargeable Lithium-ion battery)					
		Maximum charging time: approx. 115 min. (Rechargeable Lithium-ion battery)					
Interfaces		USB (2.0 Hi-Speed)/AV output terminal, DC Input terminal					
Video Output		NTSC/PAL					
PictBridge	Modes	Single image, All images, DPOF, Paper Size, Paper Type, Paper Quality, Border					
Dimensions		91.0(W)×56.5(H)×23.5(D)mm (excluding protrusions.)					
Weight	Body	130 g (4.6 oz.):without battery and SD memory card					
-	\	150 g (5.3 oz.):loaded and ready					
	, , , , , , , , , , , , , , , , , , , ,	Rechargeable D-Ll68 lithium-ion battery, Charger, AC cable, USB cable, AV cable, Software (CD-					
Accessories		ROM), Strap					
The number of recordable	e images are based on the CII	PA standard measurement, but it may vary with the conditions under which the camera is used.					

^{*}The number of recordable images are based on the CIPA standard measurement, but it may vary with the conditions under which the camera is used.

**Measured based on PENTAX standard and may vary depending on the condition of use.

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)

	200 ioi i =::::: u j					
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

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

 $[\]ensuremath{^{\star}}$ Operation is not guaranteed on all PCs meeting the system requirements.

Optio A40 Storage

Still

	12M (400	00x3000)		10M (3648	x2736)		7M 3072	x2304)		5M (2592	2x1944)		3M (2048	X1536)		1024 (1	024X768)	640 (640	X480)	
	***	**	*	***	**	*	***	**	*	***	**	*	***	**	*	***	**	*	***	**	*
Built-in Memory*	3	5	8	4	6	9	6	10	14	9	14	20	15	22	31	40	58	81	74	108	150
64MB	11	17	24	14	21	30	20	30	42	29	43	60	45	66	92	117	170	236	216	313	434
128MB	25	36	51	30	44	62	43	63	87	61	89	123	93	135	187	239	346	479	439	635	880
256MB	50	72	101	60	87	121	85	124	172	120	174	242	183	264	367	467	675	935	857	1239	1716
512MB	100	145	201	120	174	242	170	246	342	240	347	481	363	525	728	927	1340	1856	1701	2457	3403
1GB	201	291	404	242	350	486	342	495	685	481	695	963	728	1053	1458	1856	2682	3714	3405	4918	6811
2GB	410	594	822	494	714	989	697	1007	1396	980	1416	1961	1483	2143	2967	3777	5456	7556	6926	10000	10000
4GB	807	1167	1616	971	1403	1944	1370	1980	2742	1925	2781	3852	2913	4209	5828	7418	10000	10000	10000	10000	10000

^{*} Approximately 21 MB

Movie

	640X480			320X240		
	***	**	*	***	**	*
Built-in Memory	1m3s	1m19s	1m35s	4m5s	5m5s	5m51s
64MB	2m55s	3m39s	4m23s	11m17s	14m1s	16m9s
128MB	5m55s	7m25s	8m55s	22m56s	28m29s	32m51s
256MB	11m35s	14m30s	17m25s	44m47s	55m39s	64m10s
512MB	22m58s	28m47s	34m33s	1h28m53s	1h50m25s	2h7m18s
1GB	46m0s	57m38s	1h9m11s	2h57m56s	3h41m3s	4h14m52s
2GB	93m36s	1h57m15s	2h20m46s	6h2m0s	7h29m43s	8h38m30s
4GB	183m49s	3h50m16s	4h36m26s	1h50m54s	14h43m9s	6h58m14s

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

Voice recording

Built-in Memory	24m7s
64MB	1h5m47s
128MB	2h13m19s
256MB	4h19m59s
512MB	8h35m26s
1GB	17h11m28s
2GB	34h58m0s
4GB	68h39m39s

s *The continuous voice recording time is 24 hours.