

Casio Releases EXILIM with Rapid Shutter That Makes It Easier Than Ever to Take Great Pictures

Fastest EXILIM ZR Series camera shoots in as little as 0.26 seconds between photos; HS Night Shot and Art Shot functions open up the range of shooting possibilities



TOKYO, February 8, 2012 — Casio Computer Co., Ltd., today announced the release of the new EXILIM® EX-ZR20 compact digital camera. This newest addition to the EXILIM family of digital cameras boasts a wide-angle 25 mm, 8x optical zoom lens and is packed with features that make taking fun, beautiful photos effortless anywhere, anytime.

In 2011, Casio released the EX-ZR15 and EX-ZR200 cameras powered by the EXILIM Engine HS, which delivers both high-speed shooting and high-speed image processing, enabling users to shoot beautiful pictures in rapid sequence with a single press of the shutter. The cameras have proven popular for their ease of use and advanced shooting functions, which surpass anything that conventional digital cameras have been able to do.

The new EX-ZR20 offers the same ease of use with a Rapid Shutter, which shoots in as little as 0.26 seconds between photos* and has a 0.13-second high-speed auto focus.* The stylish, compact body is also equipped with a wide range of shooting functions that enable anyone to take beautiful, fun photos.

* Values determined using Casio's measurement method.

The EX-ZR20 takes great photos and videos with a single press of the shutter, thanks to Casio's Premium AUTO PRO and Premium Auto Movie technologies. Premium AUTO PRO enables state-of-the-art auto shooting and automatically merges images taken with high-speed continuous shooting according to the shooting conditions, to dramatically improve final image quality in challenging situations such as backlighting, night scenes and zoom shooting. With Premium Auto Movie, the camera automatically analyzes the scene to choose the best settings including for Full High-Definition (HD) movies.

The EX-ZR20 also boasts enhanced functions for shooting fun photos. High-Speed (HS) Night Shot combines images taken with high-speed continuous shooting, producing bright shots of scenes that appear dark to the naked eye—all without using a flash—and delivering sensitivity up to the equivalent of ISO12800. Art Shot offers seven different effects for creating artistic photos, such as miniature and toy camera effects.

Main Features of the EX-ZR20

EXILIM ENGINE HS with high-speed shooting and high-speed image processing

The EX-ZR20 incorporates the EXILIM ENGINE HS for high-speed shooting and high-speed processing. In addition to a dual-CPU configuration that creates two image processing paths, the camera is equipped with a reconfigurable processor that delivers high-performance functions and high-speed processing using Casio's latest technologies. With the engine, the EX-ZR20 features 0.13-second high-speed auto focus* and as little as 0.26 seconds between photos,* making photography effortless from start-up to shooting.

The EXILIM Engine HS also delivers advanced functions such as HDR-ART, which creates artistic images, and HS Night Shot, which captures bright images in minimal light conditions by taking advantage of the camera's high-speed continuous shooting capability at a speed of 30 shots per second.

* Values determined using Casio's measurement method.

Premium AUTO PRO function produces beautiful photos with just a press of the shutter button

The Premium AUTO PRO function automatically analyzes the shooting scene to choose the best settings and perform image processing. It automatically combines images from high-speed continuous shooting according to shooting conditions to create gorgeous photos. Users can easily take sophisticated photos at the press of the shutter button, thanks to the automatic activation of functions such as HDR technology for high-contrast conditions, High Speed Night Scene mode for night shots, and High Speed Anti Shake for high-power zoom shooting.

Premium Auto Movie takes beautiful Full HD movies with a single press of the shutter

The Premium Auto Movie function automatically analyzes the scene to choose the best settings, by detecting people, landscapes, night scenes, macro subjects, blue skies and foliage.

HS Night Shot captures bright images in minimal light conditions

The HS Night Shot function merges images taken with high-speed continuous shooting to produce bright, sharply focused shots of scenes that appear dark to the naked eye, without using a flash. HS Night Shot can deliver images with sensitivity up to the equivalent of ISO12800, through processing that aligns continuous shooting images, reduces noise and combines the images.

Art Shot gives the freedom to create artistic photos

Art Shot offers seven different effects for creating impressively artistic photos, including toy camera, soft focus, light tone, pop art, sepia, black & white and miniature effects. Users can change the processing levels of each effect and color to create artistic photos so good they feel like professional photographers.

HDR technology faithfully reproduces images as they really appear

With Casio's HDR technology, each press of the shutter button actually takes several shots at different exposures and instantly combines them into a single image with a high dynamic range. This minimizes over exposed or under exposed areas in the image, creating a photo that captures all the rich tonal gradation of the scene just as it appears in real life.

HDR-ART creates artistic photos

The EX-ZR200 features Casio's HDR-ART function to create artistic photos, by combining continuous shots with differing exposures and performing highly precise image analysis to locally change levels of contrast and color saturation. Users can select from three different processing levels of art effects. The function can also be applied to movies (only one level of art effect available).

Blurred Background function lets users take impressive photos like a single-lens reflex camera

Casio has employed its high-speed continuous shooting technologies to create an original technique for processing the background scene of a shot like the soft blur effect attainable using a single-lens reflex camera, thereby accentuating the subject of the photo. Users can select from three different processing levels of blur effects.

Scenes come alive in their full expansiveness with the Wide Shot function

The EX-ZR20 combines continuous shots taken with high-speed continuous shooting when the user is moving the camera, enabling powerful super-wide-angle shots. Users can choose wide-angle shooting modes equivalent to 15 mm or 19 mm.

Casio's Multi Frame SR Zoom maintains refined image quality with exceptional clarity to a maximum zoom of 16x

The wide-angle 25 mm, 8x optical zoom lens offers zoom performance equivalent to a maximum of 16x optical zoom with Casio's Multi Frame SR Zoom, which actually combines a number of still images to maintain the image quality needed for high-resolution photography.

EX-ZR20 Specifications

EX-ZR20			
Number of Effective Pixels		16.1 megapixels (/million)	
Image Sensor		1/2.3-inch high-speed CMOS	
	Total Pixels	16.79 megapixels (/million)	
File Format	Still Images	JPEG (Exif Ver.2.3, DCF 2.0, DPOF)	
	Movies	MOV format, H.264/AVC, IMA-ADPCM (stereo)	
Built-in Flash Memory (Image Area)*1		52.2MB	
Recording Media		SD Memory Card, SDHC Memory Card, SDXC Memory Card compatible	
Number of Recorded Pixels	Still Images	16M (4608 x 3456), 3:2 (4608 x 3072), 16:9 (4608 x 2592), 10M (3648 x 2736), 5M (2560 x 1920), 3M (2048 x 1536), VGA (640 x 480)	
	Movies	FHD:1920x1080 (30fps) / HD*:1280x720 (15fps) / STD: 640x480 (30fps) / HS 480 : 224x160 (480fps) / HS 240 : 512x384(240fps) / HS 120 : 640x480 (120fps) / HS 30-240 : 512x384 (30 to 240fps) / HS 30-120 : 640x480 (30 to 120fps)	
Recording Capacity (Maximum Image Size Setting)	Still Images (JPEG)	SD Memory Card 16GB*2	Fine: Approx. 1072 shots Normal: Approx. 1654 shots
		Movies	Recording Time
			SD Memory Card 16GB*2
Continuous Shooting Speed		30 frames per second / 15 frames per second / 10 frames per second / 5 frames per second / 3 frames per second (Image is fixed at 16M pixels)	
Lens	Construction		10 lenses in 8 groups, including aspherical lens
	F-number		F3.3 (W) to F5.9 (T)
	Focal Length	35mm Film Equivalent	f= 4.4 to 35.2mm Approx. 25 to 200mm
Zoom Ratio		8 x optical zoom, 12.0x Single SR Zoom, 16.0x Multi SR Zoom, 4x digital zoom, 127.5x maximum digital zoom (in combination with HD zoom, VGA size)	
Focusing	Focus Type		Contrast Detection Auto Focus
	Focus Modes		Auto Focus, Macro, Super Macro, Manual Focus
	AF Area		Intelligent, Spot, Multi, Tracking
	AF assist lamp		Yes
Focus Range*6 (From Lens Surface)	Auto Focus		Approx. 5cm to infinity (W)
	Macro		Approx. 2cm to 50cm (Seventh step from Widest Setting)
	Super Macro		Approx. 2cm to 50cm
	Manual Focus		Approx. 5cm to infinity (W)
Exposure	Exposure Metering		Multi pattern, Center Weighted, Spot by imaging element
	Exposure Control		Program AE
	Exposure Compensation		-2EV to +2EV (in 1/3EV steps)
Shutter			CMOS electronic shutter and mechanical shutter
	Shutter Speed*7	Auto	1/4 to 1/2000 second
		Premium Auto PRO	4 to 1/10000 second
Aperture*8		F3.3 (W) to F8.0 (W) *9	
White Balance		Auto WB, Daylight, Overcast, Shade, Day White FL, Daylight FL, Tungsten, Manual WB	
Sensitivity (SOS)*10	Still Images	Auto, ISO80, ISO100, ISO200, ISO400, ISO800, ISO1600, ISO3200	
	Movies	Auto	
Self-Timer		10 seconds, 2 seconds, Triple Self-timer	
Built-in Flash	Flash Modes		Auto, Flash off, Flash on, Red eye reduction
	Flash Range*11 (ISO Sensitivity : Auto)		Normal : Approx. 0.4 to 3.8m (W), approx. 0.8 to 2.1m (T)
	Flash Lighting Adjustment		+2,+1,0,-1,-2
	Flash Charge Time		Approximately 5 seconds

		EX-ZR20
Recording Functions		Snapshot (Auto mode/ Premium Auto PRO mode), Snapshot by Super resolution technology, High Speed Continuous shooting, Prerecord(still image), Marco, Super Marco, Self-timer, BEST SHOT, Face Detection, High Speed Movie(with sound only when 30fps of HS30-120 and HS30-240), FHD Movie, STD Movie, HDR-art Moive, Prerecord(movie), YouTube™ Capture Mode, Blurred Background, HDR, HDR-art, Slide Panorama, Wide Shot, Best Selection, HS Night Shot, Art Shot(7 Scenes), CMOS shift stabilization, Wind noise cut, ISO High Limit
Playback Functions		Playback Zoom, Multi-image Screen, Start-up Images, Protect, Date&time Edit, Rotate, Re-size, Trimming, Copy, BGM Slideshow, Brightness, White Balance, MOTION PRINT, Movie Editing, Continuous Shooting Multi Print, Continuous Shooting Frame Edit(DPOF Printing, Protect, Copy, Delete), Divide Group (Dividing Up a Continuous Shutter Group) , DYNAMIC PHOTO, Disabled Deletion
Other Functions		PictBridge, Video Output(NTSC/PAL), Auto Rotate, Create Folder, USB charge
Monitor Screen		3.0-inch TFT color LCD (Super Clear LCD), 460,800 dots (960 x 480)
Timekeeping Functions	Date and Time	Recorded with image data
	With Time Stamp Function	Yes
	Auto Calendar	To 2049
	World Time	162 cities in 32 time zones, City name, date, time, daylight saving time
External connection terminal		USB port (Hi-Speed USB compliance, USB charging) / AV output terminal(NTSC/PAL), HDMI™*12 output(Mini)*13
Microphone		Stereo
Speaker		Monaural
Power Requirements		Rechargeable lithium ion battery (NP-110) x 1
Battery Life	Number of Shots (CIPA Standards)	Approx. 335 shots
	Continuous Playback (Still Images)	Approx. 4 hours
	Continuous Movie Recording Time(FHD movie)	Approx. 1 hours 45 minutes
Dimensions	W × H × D (CIPA Standards)	99.9 (W) x 59.0 (H) x 25.7 (D) mm (excluding projections ; 21.6mm at thinnest point)
Weight (CIPA Standards)		Approximately 166g (Including Battery and Memory Card*2) · Approximately 139g (Excluding Battery and Memory Card)
Bundled Accessories		Rechargeable Lithium Ion Battery (NP-110), USB-AC Adaptor (AD-C53U), AC Power Cord, USB cable,

- 1 Built-in memory capacity after formatting.
- 2 When using SanDisk Corporation 16GB SDHC Memory Card.
- 3 HD movie is only for HDR-Art mode.
- 4 Within limits of memory and battery life.
- 5 Time per time which can be maximum recorded
- 6 Using optical zoom causes the focus range to change.
- 7 Depending on user's setting of Camera.
- 8 Using optical zoom causes the aperture to change.
- 9 ND filter is being used.
- 10 SOS: Standard Output Sensitivity.
- 11 Range is affected by optical zoom.
- 12 HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- 13 1080/50i output is not supported for PAL output using an HDMI™.

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