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## Canon IXUS 510 HS

Autor:

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**The IXUS 510 HS helps you to take the perfect picture anytime, anywhere, making it easier than ever to capture every moment with enviable results. The inclusion of Canon's HS System – a combination of a 12.1 Megapixel back-illuminated CMOS BSI sensor and proprietary DIGIC 4 image processing – helps to capture the natural ambiance of a scene, producing crisp, low-noise images without having to use the flash or a tripod. Enhanced Smart Auto mode also removes much of the uncertainty from recording special moments, using Advanced Subject Detection to detect up to 32 different scenes<sup>3</sup> and adjust the camera settings accordingly to ensure every subject is well-exposed and in-focus.**

Canon has unveiled the ELPH 510 HS (IXUS 1100 HS) - a super-slim compact superzoom in the ELPH/IXUS family. Despite its small size, it manages to fit a 28-336mm equivalent, image stabilized lens in front of its 12.1MP back-illuminated CMOS BSI sensor. It also has a 460k dot 3.2" (8.8cm) touchscreen LCD on its reverse. Unlike most previous Canon ELPHs, it includes the ability to shoot in 16:9, 3:2 and 1:1 image ratios. Beyond that there are the usual Digic 4-powered creative effects such as Miniature and Toy Camera, the ability to shoot high-speed bursts, slow-motion movies and 1080p24 HD capture. The 510 HS is also compatible with a new optional external flash.

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<http://www.cnet.com/uk/products/canon-ixus-510-hs/>

The slimmest 12x optical zoom in its class - Canon unveils the stylish IXUS 1100 HS

London, UK, 23rd August 2011 – Canon today unveils the incredible IXUS 1100 HS – the ultimate touchscreen IXUS with an amazing 28mm wide-angle 12x optical zoom lens which retracts fully into a compact, stainless steel body, making it the slimmest camera in its class<sup>1</sup>. This new flagship IXUS is the latest model to offer Canon's advanced HS System for beautiful, low-noise images in all conditions. The IXUS 1100 HS also features a new Intelligent IS system to ensure any subject is captured in crisp detail, whether up-close, in low light, or at the fullest extent of the zoom.

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Combining the latest imaging technologies with Canon's premium IXUS styling, the IXUS 1100 HS is one of the most advanced IXUS models to date – allowing photographers of all levels to capture breath-taking stills and Full HD movies. A huge 8.0 cm (3.2") touchscreen provides exceptional fingertip control, making it easy to frame and play back images and movies, whilst Full HD video with high quality stereo sound makes the camera the ideal companion on holidays and nights out.

#### Capture the perfect shot with ease

Ensuring even the most distant subject can be viewed with fantastic clarity, the 12x zoom lens features Canon's precision optics and a 4-stop optical Image Stabilizer - providing outstanding image quality and detail at all focal lengths, from the wide-angle to the extreme telephoto. The new Intelligent IS system also offers greater detail in stills and movies, automatically identifying the shooting situation and selecting the most appropriate image stabilization from seven possible modes<sup>2</sup>. For example, the camera will automatically switch to Macro IS with Hybrid IS technology when capturing a close up shot of a flower, or to Powered IS to improve movie stability when filming far subjects with the long zoom.

The IXUS 1100 HS helps you to take the perfect picture anytime, anywhere, making it easier than ever to capture every moment with enviable results. The inclusion of Canon's HS System – a combination of a 12.1 Megapixel back-illuminated CMOS BSI sensor and proprietary DIGIC 4 image processing – helps to capture the natural ambiance of a scene, producing crisp, low-noise images without having to use the flash or a tripod. Enhanced Smart Auto mode also removes much of the uncertainty from recording special moments, using Advanced Subject Detection to detect up to 32 different scenes<sup>3</sup> and adjust the camera settings accordingly to ensure every subject is well-exposed and in-focus.

The high-sensitivity CMOS BSI sensor also enables a series of high-speed shooting functions. Handheld Night Scene combines the image data from a sequence of high-speed shots into a single image for the best possible exposure with the least amount of blur, whilst Best Image Selection records the best shot from a high-speed sequence of five images. Capture split-second action with High-speed Burst mode, which records 3.0MP resolution images at 7.8 shots/sec. or shoot continuously at full resolution up to 3.3 shots/sec. For more fun with video, Super Slow Motion Movie mode slows down fast-moving subjects, shooting VGA resolution video at 120fps (QVGA resolution at 240fps) and playing it back at a fraction of the real speed<sup>4</sup> – perfect for analysing a golf swing or catching the dramatic conclusion to a 100m sprint.

#### Full HD movies – sit in the director's chair

The IXUS 1100 HS has everything you need to record great movies of friends and family. With Full HD (1080p) resolution, optical zoom and high-quality stereo sound, you can easily switch between still images and movies with one sleek, pocketable camera. With Movie Digest mode, you can even create a VGA-quality film telling the story behind the images you've shot that day. It automatically records the four seconds preceding every still image captured and merges the clips into one show reel which can then be used as bonus footage or shared online.

#### The world at your fingertips

Allowing you to frame and review your stills and movies with crisp detail and fantastic contrast and colour, the IXUS 1100 HS features a vast 8.0 cm (3.2") PureColor II Touch LCD screen with a sharp 460k-dot resolution which fills the rear of the camera. With everything at your fingertips you can control different settings with a swipe of a finger; simply touch to focus on the subject with Touch AF or instantly capture the scene with new Touch Shutter.

Taking advantage of the increased flexibility offered by touchscreen technology, how you use the camera and access the settings that matter most is entirely up to you. Shortcuts to the most common menu settings are pre-set to the interface but can be repositioned and customised according to personal preference – making the touch interface quick and easy to navigate.

#### Share your creativity

In addition to providing the ultimate stylish high-zoom compact for capturing the scene as you see it, the IXUS 1100 HS also features a number of creative modes to explore for fun and interesting results. These include Miniature Effect, Super Vivid and Poster Effect (which are also available when recording Full HD video) as well as Fish-eye Effect, which distorts the image to offer a unique view on a more traditional scene. With Toy Camera Effect or Monochrome you can achieve high-contrast, colourful shots in the style of early pinhole cameras or more atmospheric black and white, sepia or blue monochromatic tones.

Multi-aspect shooting means you can produce images of different shapes and sizes, from perfectly square, to widescreen 16:9 format. A new Photobook Setup mode helps you to select images for photobooks to keep or give to friends and family, or use the IXUS 1100 HS with associated Canon printers to create highly personal gifts and albums. Alternatively, instantly share your favourite shots and video direct from the camera on HDTVs and monitors through the

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HDMI port5; sit back and browse through your images using the remote of your HDMI-CEC compatible TV.

In addition, the IXUS 1100 HS will also be compatible with the HF-DC2 – a new high power external flash unit that can be used to supplement the on-board flash.

Share stories with CANON iMAGE GATEWAY

Owners of the IXUS 1100 HS can also join the CANON iMAGE GATEWAY, an online facility for sharing photos and video.

The CANON iMAGE GATEWAY Online Photo Album provides up to 2GB of personal storage capacity - enough room for hundreds of high-quality images.

IXUS 1100 HS – key features:

12x zoom, wide 28mm. Intelligent IS  
HS System (12.1 MP)  
Ultra compact metal body  
8.0cm (3.2") PureColor II Touch LCD  
Full HD, Powered IS  
Smart Auto (32 scenes)  
High-speed Burst & Super Slow Motion Movie  
iFrame movie. Movie Digest  
Creative modes  
Hints & Tips

1 World's slimmest 12x zoom camera according to Canon research as of 23rd August 2011 and in accordance with CIPA standards

2 Normal IS, Dynamic IS, Powered IS, Panning IS, Macro IS, Tripod mode, Dynamic Macro IS

3 21 scenes detected in Movie mode

4 QVGA movies (320x240) play back at 1/8 of real speed, VGA movies (640x480) play back at 1/4 of real speed

5 Cable sold separately

Canon IXUS 1100 HS specifications

BSI sensor

- 1/2.3" type back-illuminated CMOS
- 12.1 million effective pixels

Image sizes

4:3

- 4000 x 3000
- 2816 x 2112
- 1600 x 1200
- 640 x 480

16:9

- 4000 x 2248
- 2816 x 1584
- 1920 x 1080
- 640 x 360

3:2

- 4000 x 2664
- 2816 x 1880
- 1600 x 1064

- 
- 640 x 424

1:1

- 2992 x 2992
- 2112 x 2112
- 1200 x 1200
- 480 x 480

Movie clips

- 1920 x 1080 @ 24 fps HD
- 1280 x 720 @ 30 fps HD
- 640 x 480 @ 30 fps
- Super Slow Motion movies @ 120, 240fps
- Miniature Effect (HD, L) 6fps, 3fps, 1.5 fpS
- iFrame Movie (HD)

Maximum clip length

- (Full HD & HD) Up to 4 GB or 10 min. 00 sec.
- (L and M) Up to 4 GB or 1 hour

File formats

- Still: JPEG (Exif v2.3)
- Movie: MOV [H.264 + Linear PCM (stereo) ]

Lens

- 28-336mm (35mm equiv)
- f = 5.0 - 60 mm
- 12x optical zoom
- F3.4-5.9
- Construction: 14 elements in 12 groups (1 UD lens, 1 double-sided aspherical lens, 1 single-sided aspherical UA lens, 1 light-folding prism)

Image stabilization

Yes (Lens-Shift)

Digital zoom

up to 4x

Focus

- Auto focus :TTL
- Face Detection / 9-point AiAF
- 1-point AF (fixed to centre)

AF modes

- Single
- Servo AF/AE
- Touch AF

AF lock

Yes (on/off selectable)

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AF assist lamp

Yes

Focus distance

Closest focus distance 1 cm

Metering

- Evaluative (linked to Face Detection AF frame)
- Center-weighted average
- Spot (Center or Touch)

ISO sensitivity

- Auto
- ISO 100
- ISO 200
- ISO 400
- ISO 800
- ISO 1600
- ISO 3200

AE lock

Yes

Exposure compensation

+/- 2EV in 1/3 stop increments

Shutter speed

- Auto (1 - 1/4000 sec)
- 15-1/4000 sec

Modes

- Smart Auto (32 scenes detected)
- Program
- Movie Digest
- Portrait
- Kids & Pets
- Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Time)
- High-speed Burst (3.0MP)
- Best Image Selection (3.0MP)
- Handheld Night Scene
- Low Light (3.0MP)
- Fish-eye Effect
- Miniature Effect
- Toy Camera Effect
- Monochrome
- Super Vivid
- Poster Effect
- Color Accent
- Color Swap Beach
- Foliage
- Snow
- Fireworks
- Long Shutter

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#### White balance

- Auto (including Face Detection WB)
- Daylight
- Cloudy
- Tungsten
- Fluorescent
- Fluorescent H
- Flash
- Custom

#### Self timer

- 2 or 10 sec, Custom

#### Continuous shooting

- Approx. 3.3 shots/sec , High-speed Burst (3.0MP)
- Approx. 7.8 shots/sec (until memory card becomes full)

#### Image parameters

My Colors (My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color)

#### Flash

- Auto, Flash On, Flash Off, Slow Sync, Red-eye reduction
- Slow Sync Speed : Fastest speed 1/2000 sec
- Face Detection FE compensation
- Range: 30cm – 3.1 m (W) / 1.0 m – 1.7 m (T)
- Flash exposure lock

#### LCD monitor

- 3.2 inch PureColor II Touch
- 461,000 dots
- 100% coverage
- Adjustable

#### Connectivity

- USB 2.0 Hi-Speed
- HDMI mini connector
- AV out (PAL / NTSC switchable)

#### Print compliance

PictBridge

#### Storage

SD, SDHC, SDXC

#### Power

Rechargeable Li-ion Battery NB-9L

#### Weight (inc. batt)

206 g

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Dimensions  
99 x 59 x 22 mm

Additional images

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## Canon IXUS 510 HS REVIEW

### Introduction

The Canon IXUS brand goes from strength to strength with the release of the snazzy 510 HS (also known as the ELPH 530 HS). It's sharp exterior is complemented by the hardcore interior of a 12x optical zoom with a focal range of 28-336mm, modest 10 megapixel resolution CMOS BSI sensor, stylish metal body, built-in WiFi, large 3.2 inch touch-screen, Full HD video capture with stereo sound and a HDMI port, 2.7 inch LCD screen and a Digic 5 processor. The Canon IXUS 510 HS / ELPH 530 HS is available in in black or white priced at £349 / €399 / \$350.

### Ease of use

Canon IXUS and Powershot cameras have come a little bit closer to one another these days. Gone are the definite lines of separation with technology so to make sure that the consumer has something that looks completely different to its cousin, Canon make the IXUS models look extremely sexy. The IXUS 510 HS is no exception. The black version we tested has a high gloss face with a large lens bezel that - despite the 12x optical zoom - sits flush with the rest of the body. On a Powershot, it would stick out slightly.

The top of the Canon IXUS 510 HS holds the indented power button, shutter release and a small playback button. The inclusion of the playback button here is a little confusing. After all, it's normally found on the back towards the bottom. That's not to say it's unwelcome or even a hindrance, although admittedly, we did sometimes go into playback instead of turning the camera off.

Turning to the back of the camera and it's immediately obvious why the playback button has been placed where it is. The large 3.2 inch screen takes up the whole amount of space on the back. This is necessary to retain a degree of smallness about the camera. This is a problem posed to all manufacturers. Consumers want smaller models but with bigger resolution, bigger zoom and bigger screens. It's not physically possible and so they do what they can. Canon appear to have got around a problem quite creatively.

Front

Rear

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On the bottom of the Canon IXUS 510 HS is a metal tripod bush. We're always happy to see a metal version and our only grumble is that it's too far to the side. This could incur some camera shake when using a tripod. The battery compartment is situated directly next to the tripod bush but it doesn't take the card as well. The MicroSD card is found at the other side of the camera. The clip is only small and a fingernail is necessary to open it.

Switching the Canon IXUS 510 HS on you will see that the camera doesn't use all the frame for picture taking. This is a trick that Sony started a few years ago. The screen used for taking pictures is a lot smaller than would normally be used by the photographer. The reason is because the sides of the screen are reserved for the menu systems of the touch-screen. This is around half an inch on both sides which makes the width of the camera 2.7 inches from diagonal corner to corner. Despite this loss in size of screen compared to cameras that have a 3 inch non-touch sensitive screen, Canon still market it as 3.2 inches to illustrate the physical size and not the actual shooting area.

A point of interest on the IXUS 510 HS is how the lens is compacted into such a small body. To see what Canon have done, all you have to do is look at the lens of the camera when you switch it on. The shutters open, a small lens flips over from the side and the lens telescopes out. When switching off, it all happens in reverse so Canon use an element shift system similar to what Pentax developed years ago to house larger zooms in small bodies.

Top  
Front

One of the most interesting developments with the release of the 510 HS is the lower than expected resolution. At 10 megapixels, the BSI sensor is at the same level of compact cameras from four or five years ago. This move echoes what they did with the Canon Powershot G10. The sensor is also a BSI CMOS type which means it's more fuel efficient - to the detriment of sharpness, and better under low illumination scenes. However, it's likely that the new Digic 5 processor will be able to overcome that hurdle. Something that we'll see later in the review.

The Canon IXUS 510 HS is exceptionally well built. The metal casing not only looks good but feels great. There's a solidness to the casing that only IXUS cameras have. The previously mentioned metal tripod bush will last a lot longer than a plastic variety and the compartment lids are strong. Except for the HDMI/USB port cover. This crucial port is covered by some rubber for some reason. It's logical that it makes it a little more weatherproof but a snapping lid and a little rubber on the inside would be just as effective and look a lot nicer.

The main menu of the IXUS 510 HS digital compact camera is relatively straightforward. It has large icons that anyone can understand. The large boxes have easily recognisable icons and the size of them makes them a breeze to select even with the biggest fingers. There's nothing new on the menu systems, the usual pre-programmed modes are there along with some digital effects such as miniature and soft focus. All the usual buttons are available on the back screen of the camera. The direct video record button is signified by a large red spot. The function menu is still present for quick access to most used features such as white-balance, ISO and resolution.

Front  
Side



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The speed of the IXUS 510 is impressive thanks to the HS (Hi-Speed) facility. In the continuous burst mode, we got 15 shots in a ten second period which averages to 1.5 frames per second (fps). However, this wasn't a steady run of 1.5 fps. The camera will rattle off 4 frames in the first second before slowing to allow the buffer to cope. Focusing is ultra fast. Start up time is around the same as any other digital compact camera but shutter lag is great at 0.04sec. The average digital camera has a lag of around 0.08sec.

The playback screen is an array of buttons and options just on the main viewing screen. The image is brought up in the centre of the frame with several options in the corners while the sides are reserved for scrolling left or right. In the top left corner, the Wi-Fi options are available. The options are to a camera. Phone, computer or to the internet. The function menu is available as well as display options. The function menu brings up options such as delete, protect, rate and some search options.

Playback can be operated by pressing the review button on top of the Canon IXUS 510 HS whether it's switched on or not. In fact, it's best for it to be off so that the lens isn't sticking out although it does retract after a minute or so. Pressing the display button will scroll through a couple of options. The first is shoot information. It gives photo details such as film speed, aperture and shutter speed. There's also a histogram for the more adventurous out there to check exposure. The second alternative displays a focus square in the bottom right corner of the screen. It shows if the picture is sharp which is useful if you have the opportunity to shoot again.

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## Canon IXUS 510 HS

### Stylish and well connected

An amazingly chic, tiny 12x optical zoom camera with Wi-Fi for easy sharing, effortless touch screen control and HS System for incredible photos and Full HD movies even in low light.

12x optical zoom in tiny, chic metal body  
HS System: 10.1 MP CMOS and DIGIC 5  
Intelligent IS  
Wi-Fi for easy image sharing  
8.0 cm (3.2") touch screen with Touch Shutter  
Full HD movies, HDMI  
Smart Auto (58 scenes)  
Face ID  
High-speed shooting  
Movie Digest (720p)

Great low-light shots  
12x optical zoom with wide-angle  
Zoom to 21x without losing quality  
Share images wirelessly  
10.1 Megapixel CMOS  
Powerful DIGIC processing

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Steady shots in every situation  
Large touchscreen  
Touch and release LCD to shoot  
1080p movies  
Auto mode with 58-scene detection  
Recognises your favourite people  
High-speed shooting  
Automatic movie summary of your day  
View stills and videos on TV

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## Product specification

IMAGE BSI sensor  
IMAGE PROCESSOR  
LENS  
FOCUSING  
EXPOSURE CONTROL  
SHUTTER  
WHITE BALANCE  
LCD MONITOR  
FLASH  
SHOOTING  
RECORDING PIXELS / COMPRESSION  
FILE TYPES  
DIRECT PRINT  
OTHER FEATURES  
INTERFACE  
MEMORY CARD  
SUPPORTED OPERATING SYSTEM  
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PHYSICAL SPECIFICATIONS

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## IMAGE BSI sensor

### Type

1/2.3 type back-illuminated CMOS

### Effective Pixels

Approx. 10.1M (Total Pixels approx. 16.8M)

### Colour Filter Type

Primary Colour

## IMAGE PROCESSOR

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### Type

DIGIC 5 with iSAPS technology

## LENS

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### Focal Length

4.0 - 48.0 mm (35 mm equivalent: 28 - 336 mm)

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## Zoom

Optical 12x

ZoomPlus 21x

Digital Approx. 4x (with Digital Tele-Converter Approx. 1.4x or 2.3x and Safety Zoom<sup>1</sup>). Combined Approx. 48x

## Maximum f/number

f/3.4 - f/5.6

## Construction

14 elements in 12 groups (1 double sided aspherical lens, 1 single sided aspherical UA lens and 1 single sided aspherical lens)

## Image Stabilisation

Yes (lens shift-type). Intelligent IS

## FOCUSING

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## Type

TTL

## AF System/ Points

AiAF (Face Detection / 9-point), 1-point AF (fixed frame) or Touch AF with Object and Face Select and Track

## AF Modes

Single, Continuous, Servo AF/AE<sup>1</sup>, Touch AF

## AF Point Selection

Size (Normal, Small)

## AF Lock

On/Off Selectable

## AF Assist Beam

Yes

## Closest Focusing Distance

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1 cm (W) from front of lens in macro

## EXPOSURE CONTROL

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Metering modes

Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (centre or Touch AF frame)

AE Lock

On/Off Selectable

Exposure Compensation

+/- 2 EV in 1/3 stop increments

Enhanced i-Contrast for automatic dynamic range correction

ISO sensitivity\*

AUTO, 100, 200, 400, 800, 1600, 3200

## SHUTTER

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Speed

1 - 1/4000 sec. (factory default)

15 - 1/4000 sec. (total range – varies by shooting mode)

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## WHITE BALANCE

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Type  
TTL

### Settings

Auto (including Face Detection WB), Daylight, Cloudy, Tungsten, Fluorescent, Fluorescent H, Custom. Multi-area WB correction available in Smart Auto

## LCD MONITOR

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### Monitor

8.0 cm (3.2") PureColor II Touch (TFT), 16:9 aspect ratio, Approx. 461,000 dots

### Coverage

Approx. 100%

### Brightness

Adjustable to one of five levels

## FLASH

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## Modes

Auto, Manual Flash On / Off, Slow Synchro

## Slow Sync Speed

Yes. Fastest speed 1/2000 sec.

## Red-Eye Reduction

Yes

## Flash Exposure Compensation

Face Detection FE, Smart Flash Exposure

## Flash Exposure Lock

Yes

## Built-in Flash Range

50 cm - 2.5 m (W) / 1.0 m - 1.5 m (T)

## External Flash

Canon High Power Flash HF-DC1,  
Canon High Power Flash HF-DC2

## SHOOTING

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## Modes

Smart Auto (58 scenes detected), P, Movie Digest, Portrait, Smooth Skin, Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Timer), High-speed Burst (2.5MP), Handheld Night Scene, Low Light (2.5MP), Fish-eye Effect, Miniature Effect, Toy Camera Effect, Soft Focus, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap, Snow, Fireworks, Long Shutter

## Modes in Movie

Smart Auto (21 scenes detected), P, Portrait, Miniature Effect, Monochrome, Super Vivid, Poster Effect, Color Accent, Color Swap, Snow, Fireworks, iFrame Movie, Super Slow Motion Movie

## Photo Effects

My Colors (My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color)

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## Drive modes

Single, Continuous, Auto Drive, Self-Timer

## Continuous Shooting

Approx. 2.6 shots/sec., AF: Approx. 0.8 shots/sec., LV: Approx. 0.8 shots/sec. High-speed Burst (2.5MP): Approx. 6.1 shots/sec., (until memory card becomes full)<sup>12</sup>

## RECORDING PIXELS / COMPRESSION

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## Image Size

4:3 - (L) 3648 x 2736, (M1) 2816 x 2112, (M2) 1600 x 1200, (S) 640 x 480

16:9 - (L) 3648 x 2048, (M1) 2816 x 1584, (M2) 1920 x 1080, (S) 640 x 360

3:2 - (L) 3648 x 2423, (M1) 2816 x 1880, (M2) 1600 x 1064, (S) 640 x 424

1:1 - (L) 2736 x 2736, (M1) 2112 x 2112, (M2) 1200 x 1200, (S) 480 x 480

Resize in playback (M2, S, XS)\*

\*XS is half the length and width of S

## Compression

Superfine, Fine

## Movies

(Full HD) 1920 x 1080, 24 fps, (HD) 1280 x 720, 30 fps, (L) 640 x 480, 30 fps

Super Slow Motion Movie (L) 640 x 480, 120fps, (M) 320 x 240, 240fps

Miniature Effect (HD, L) 6fps, 3fps, 1.5 fps

iFrame Movie (HD)

## Movie Length

(Full HD & HD) Up to 4 GB or 10 min. 00 sec.<sup>1</sup>

(L) Up to 4 GB or 1 hour<sup>2</sup>

(Movie Digest) Up to 4GB or 29 min. 59 sec.

(Super Slow Motion Movie) 30 sec.

## FILE TYPES



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#### Still Image Type

JPEG compression, (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system, Digital Print Order Format [DPOF] Version 1.1 compliant

#### Movies

MOV [H.264 + Linear PCM (stereo)]

iFrame

### DIRECT PRINT

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#### Canon Printers

Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge (ID Photo Print, Fixed Size Print and Movie Print supported on SELPHY CP & ES printers only)

#### PictBridge

Yes

### OTHER FEATURES

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#### Red-Eye Correction

Yes, during shooting and playback

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## My Camera / My Menu

Start-up image and camera sounds customisation

### My Category

Image tagging feature

### Intelligent Orientation BSI sensor

Yes

### Histogram

Yes

### Playback zoom

Approx. 2x - 10x

### Self Timer

Approx. 2 or 10 sec., Custom

### Menu Languages

English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Chinese (traditional), Japanese, Russian, Portuguese, Korean, Greek, Polish, Czech, Hungarian, Turkish, Thai, Arabic, Ukrainian, Romanian, Farsi, Malaysian, Hindi, Indonesian, Vietnamese

## INTERFACE

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### Computer

Hi-Speed USB (MTP, PTP) dedicated connector (Mini-B compatible)

### Other

HDMI Mini Connector (HDMI-CEC compatible) A/V output (PAL/NTSC)

Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only)<sup>1</sup>

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## MEMORY CARD

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### Type

microSD, microSDHC, microSDXC

## SUPPORTED OPERATING SYSTEM

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### PC & Macintosh

Windows 7 SP1 / Vista SP2 / XP SP3

Mac OS X v10.6 – 10.7

For Ad-hoc Wireless LAN connection to a PC:

Windows 7 SP1 only

Mac OS X v10.6.8 or later

## SOFTWARE

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### Browsing & Printing

ImageBrowser EX

### Other

PhotoStitch

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## POWER SOURCE

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### Batteries

Rechargeable Li-ion Battery NB-9L (battery and charger supplied)

### Battery life

Approx. 190 shots<sup>1</sup>

Approx. 180 min. playback

### A/C Power Supply

Optional, AC adapter kit ACK-DC70

## ACCESSORIES

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### Cases / Straps

Soft Leather Case DCC-65, IXUS Metal or Leather Strap

### Flash

Canon High Power Flash HF-DC1,

Canon High Power Flash HF-DC2

### Power Supply & Battery Chargers

AC Adapter kit ACK-DC70, Battery Charger CB-2LBE

### Other

Canon HDMI Cable HTC-100

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## PHYSICAL SPECIFICATIONS

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### Operating Environment

0 - 40 °C, 10 - 90% humidity

### Dimensions (WxHxD)

85.8 x 53.5 x 19.8 mm

### Weight

Approx. 163 g (including battery/batteries and memory card)

### Zoom

<sup>1</sup> Depending on the image size selected.

### AF Modes

<sup>1</sup> Some settings limit availability.

### Continuous Shooting

<sup>1</sup> Under conditions where the flash does not fire.

<sup>2</sup> Depending on memory card speed / capacity / compression setting.

### Movie Length

<sup>1</sup> The following Speed Class memory cards are required for maximum record time: (HD) 1280 x 720 Speed Class 4 or above. (Full HD) 1920 x 1080 Speed Class 6 or above. (iFrame) 1280 x 720 Speed Class 6 or above.

<sup>2</sup> Depending on memory card speed / capacity / compression setting.

### Other

<sup>1</sup> Wi-Fi use may be restricted in certain countries or regions. Wi-Fi support varies by device and region. For more information visit [www.canon-europe.com/wirelesscompacts](http://www.canon-europe.com/wirelesscompacts)

### Battery life

<sup>1</sup> Using the batteries and memory card format supplied with the camera (where included), except where indicated.

All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated.

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Subject to change without notice.

\* Standard Output Sensitivity / Recommended Exposure Index.

According to ISO 12232:2006 (20th April 2006) which specifies the method for assigning and reporting ISO speed ratings for digital still cameras.

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#### Power

Trust Canon for guaranteed power performance. Extra batteries, battery chargers and AC adapter kits let you shoot photos and video for longer and review images without worrying about fading battery life.

#### NB-9L

A spare or replacement battery for your Canon digital compact camera. Genuine Canon batteries offer 100% compatibility, safety and performance.

#### CB-2LBE

A spare or replacement battery charger, perfect for travelling.

#### ACK-DC70

Power your Canon compact camera directly from a mains electricity supply. Ideal for shooting longer projects and powering the camera while it's connected to a computer.

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## Softcases & Straps

Carry your compact camera comfortably and protect it from dust and scratches.

### DCC-60

Protect your IXUS camera with a soft leather case when you are out and about.

### DCC-65

Protect your IXUS camera with a soft leather case when you are out and about.

### DCC-1250

Protect your IXUS camera with a soft leather case when you are out and about.

### Leather Neckstrap

Carry your Canon Compact Camera comfortably and safely.

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## Flashes

Get creative with your lighting and explore new and exciting types of photography. Canon Speedlites deliver accurate flash exposures time after time, and is quick and simple to use.

### High Power Flash HF-DC1

Boost the range of your camera's flash with a portable high-power flash unit. Includes a bracket that attaches to the camera. Can also be used remotely for creative lighting options.

### High Power Flash HF-DC2

Boost the range of your camera's flash with a portable high-power flash unit. Includes a bracket that attaches to the camera. Can also be used remotely for creative lighting options.

## Cables & Other Accessories

Stay connected with the correct interface cable.

### AV Cable AVC-DC400 ST

Show photos and movies on TVs and displays that have composite video connections. Carries picture and stereo sound.



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#### HDMI Cable HTC-100

Show photos and movies on TVs and displays that have an HDMI connection. Carries picture and stereo sound, and features gold-plated contacts to ensure a reliable connection.

#### Interface Cable IFC-400PCU

Transfer photos and movies from your camera to a PC or Mac computer via USB. 1.5m (5ft) cable length.

#### IXUS 510 HS

Full HD Movies

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Canon Lens Heritage

Optical Zoom

HS System

Wi-Fi

Intelligent IS

Smart Auto

Touch Screen

Full HD Movies

Manage, access and enjoy your photo library like never before

Find out more

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Canon IXUS 510 HS

Características:

Auto enfoque (AF) candado

Auto enfoque (AF) rayo de luz

Auto focusing (AF) modes: Autoenfoco continuo, Face detection, Face tracking, Autoenfoco único

Autodisparador: 2, 10 s

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Campo de visión: 100 %  
Exposure flash cierre  
Flash integrado

Flash, alcance (ancho): 0.5 - 2.5 m  
Flash, alcance (tele): 1 - 1.5 m  
Full HD  
Histograma  
Light metering: Centrado, Evaluative (Multi-pattern), Spot  
Micrófono incorporado  
PictBridge  
Playback  
Resolución de captura de imágenes fijas: 480 x 480, 1200 x 1200, 1600 x 1064, 1600 x 1200, 1920 x 1080, 2112 x 2112, 2736 x 2736, 2816 x 1584, 2816 x 1880, 2816 x 2112, 3648 x 2048, 3648 x 2736  
Scene modes: Playa, Fuegos artificiales, Noche, Retrato, Nieve, Puesta del sol  
Seguro de autoexposición (AE)

#### Otras características:

Ajustes de enfoque: Auto  
Alcance de flash (amplio): 0.5 - 2.5 m  
Alcance de flash (tele): 1 - 1.5 m  
Alimentación: Batería  
Altura: 19.8 mm  
Ancho: 85.8 mm  
Apertura máxima: 3.4  
Apertura mínima: 5.6  
Autodisparador: 2, 10 s  
Autonomía: 190 h  
Balance de blancos: Auto, Nublado, Luz de día, Fluorescente, Tungsteno  
Bloqueo de Auto Focus (AF): Si  
Bloqueo de exposición a flash: Si  
Campo de visión: 100 %  
Cantidad de puertos USB 2.0: 1  
Color del producto: Negro  
Corrección de exposición a la luz:  $\pm 2\text{EV}$  (1/3EV step)  
Diagonal de la pantalla: 81.3 mm (3.2 ")  
Distancia focal mínima (equivalente a película de 35mm): 28 mm  
Distancia más cercana de enfoque: 0.01 m  
Efectos fotográficos: Blanco y Negro, Neutral, Película positiva, Sepia, SLI, Vivo  
Enfoque: TTL  
Estabilizador de imagen: Si  
Flash integrado: Si  
Formatos de vídeo compatibles: MOV  
Fotometría: Centrado, Evaluative (Multi-pattern), Spot  
Full HD: Si  
Histograma: Si  
Intervalo de longitud focal: 4 - 48 mm  
Megapíxeles: 10.1 MP  
Micrófono incorporado: Si  
Modo de auto-enfoque (AF): Autoenfoco continuo, Face detection, Face tracking, Autoenfoco único  
Modos de disparo: Auto, Program

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Modos de flash: Auto, Flash desactivado, Flash on, Manual, Reducción de ojos rojos, Sincronización lenta  
Modos escénicos: Playa, Fuegos artificiales, Noche, Retrato, Nieve, Puesta del sol  
Máxima distancia de enfoque (equivalente a película 35mm): 336 mm  
Máxima resolución de imagen: 3648 x 2736 Píxeles  
Número de puertos HDMI: 1  
Pantalla: TFT  
Peso: 163 g  
PictBridge: Si  
Profundidad: 53.5 mm  
Rayo guía de Auto Focus (AF): Si  
Relaciones de aspecto compatibles: 3:2, 4:3, 16:9  
Reproducción: Movie  
Resoluciones de video: 640 x 480, 1280 x 720, 1920 x 1080 Píxeles  
Resolución de la pantalla (numérica): 461000 Píxeles  
Seguro de autoexposición (AE): Si  
Tamaño del BSI sensor óptico: 1/0.0906 mm (1/2.3 ")  
Tarjetas de memoria compatibles: microSD (TransFlash), microSDHC, microSDXC  
Tecnología de batería: Ión de litio  
Tipo de batería: NB-9L  
Tipo de cámara: compacto  
Tipo de BSI sensor: CMOS  
Velocidad de cuadro de JPEG animado: 30 fps  
Velocidad de disparador de la cámara (max): 15 s  
Velocidad de disparador de la cámara (min): 0.00025 s  
Zoom combinado: 48 x  
Zoom digital: 4 x  
Zoom óptico: 12 x

??? 12x ??????

???????????????

??? 870mAh ??

??? microSD ?????

?????????

???? Wi-Fi

Otras características: Ajustes de enfoque: AutoAlcance de flash (amplio): 0.5 - 2.5 mAlcance de flash (tele): 1 - 1.5 mAlimentación: BateríaAltura: 19.8 mmAncho: 85.8 mmApertura máxima: 3.4Apertura mínima: 5.6Autodisparador: 2, 10 sAutonomía: 190 hBalance de blancos: Auto, Nublado, Luz de día, Fluorescente, TungstenoBloqueo de Auto Focus

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(AF): SiBloqueo de exposición a flash: SiCampo de visión: 100 %Cantidad de puertos USB 2.0: 1Color del producto: NegroCorrección de exposición a la luz:  $\pm 2\text{EV}$  (1/3EV step)Diagonal de la pantalla: 81.3 mm (3.2 ")Distancia focal mínima (equivalente a película de 35mm): 28 mmDistancia más cercana de enfoque: 0.01 mEfectos fotográficos: Blanco y Negro, Neutral, Película positiva, Sepia, SLI, VivoEnfoque: TTLEstabilizador de imagen: SiFlash integrado: SiFormatos de vídeo compatibles: MOVFotometría: Centrado, Evaluative (Multi-pattern), SpotFull HD: SiHistograma: SiIntervalo de longitud focal: 4 - 48 mmMegapíxeles: 10.1 MPMicrófono incorporado: SiModo de auto-enfoque (AF): Autoenfoco continuo, Face detection, Face tracking, Autoenfoco únicoModos de disparo: Auto, ProgramModos de flash: Auto, Flash desactivado, Flash on, Manual, Reducción de ojos rojos, Sincronización lentaModos escénicos: Playa, Fuegos artificiales, Noche, Retrato, Nieve, Puesta del solMáxima distancia de enfoque (equivalente a película 35mm): 336 mmMáxima resolución de imagen: 3648 x 2736 PíxelesNúmero de puertos HDMI: 1Pantalla: TFTPeso: 163 gPictBridge: SiProfundidad: 53.5 mmRayo guía de Auto Focus (AF): SiRelaciones de aspecto compatibles: 3:2, 4:3, 16:9Reproducción: MovieResoluciones de vídeo: 640 x 480, 1280 x 720, 1920 x 1080 PíxelesResolución de la pantalla (numérica): 461000 PíxelesSeguro de autoexposición (AE): SiTamaño del BSI sensor óptico: 1/0.0906 mm (1/2.3 ")Tarjetas de memoria compatibles: microSD (TransFlash), microSDHC, microSDXCTecnología de batería: Ión de litioTipo de batería: NB-9LTipo de cámara: compactoTipo de BSI sensor: CMOSVelocidad de cuadro de JPEG animado: 30 fpsVelocidad de disparador de la cámara (max): 15 sVelocidad de disparador de la cámara (min): 0.00025 sZoom combinado: 48 xZoom digital: 4 xZoom óptico: 12 x