Canon IXUS 510 HS

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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 scenes3 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.

Jump to:

Press Release
Specifications
Additional images
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 class1. 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.

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 modes2. 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 scenes3 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 speed4 – 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

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)

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

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

Dimensions
99 x 59 x 22 mm

Additional images

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 screenand 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

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

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.

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

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

_____
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
SOFTWARE
POWER SOURCE
ACCESSORIES
PHYSICAL SPECIFICATIONS

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

Back To Top

Type
DIGIC 5 with iSAPS technology

LENS

Back To Top

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

Zoom
Optical 12x
ZoomPlus 21x
Digital Approx. 4x (with Digital Tele-Converter Approx. 1.4x or 2.3x and Safety Zoom[1]). 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

Back To Top

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[1], Touch AF

AF Point Selection
Size (Normal, Small)

AF Lock
On/Off Selectable

AF Assist Beam
Yes

Closest Focusing Distance

1 cm (W) from front of lens in macro

EXPOSURE CONTROL

Back To Top

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

Back To Top

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

WHITE BALANCE

Back To Top

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

Back To Top

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

Back To Top

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

Back To Top

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)

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)[12]

RECORDING PIXELS / COMPRESSION

Back To Top

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.[1]
(L) Up to 4 GB or 1 hour[2]
(Movie Digest) Up to 4GB or 29 min. 59 sec.
(Super Slow Motion Movie) 30 sec.

FILE TYPES

Back To Top

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

Back To Top

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

Back To Top

Red-Eye Correction
Yes, during shooting and playback

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

Back To Top

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)[1]

MEMORY CARD

Back To Top

Type
microSD, microSDHC, microSDXC

SUPPORTED OPERATING SYSTEM

Back To Top

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

Back To Top

Browsing & Printing
ImageBrowser EX

Other
PhotoStitch

POWER SOURCE

Back To Top

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

Battery life
Approx. 190 shots[1]
Approx. 180 min. playback

A/C Power Supply
Optional, AC adapter kit ACK-DC70

ACCESSORIES

Back To Top

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

PHYSICAL SPECIFICATIONS

Back To Top

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
[1] Depending on the image size selected.

AF Modes
[1] Some settings limit availability.

Continuous Shooting
[1] Under conditions where the flash does not fire.
[2] Depending on memory card speed / capacity / compression setting.

Movie Length
[1] 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.
[2] Depending on memory card speed / capacity / compression setting.

Other
[1] 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

Battery life
[1] 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.

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.

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.

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.

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.

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

Canon Lens Heritage

Optical Zoom

HS System

Wi-Fi

Intelligent IS

Smart Auto

Touch Screen

Full HD Movies

irista

Manage, access and enjoy your photo library like never before

Find out more

Canon IXUS 510 HS
Características:

Auto enfoque (AF) candado
Auto enfoque (AF) rayo de luz
Auto focusing (AF) modes: Autoenfoque continuo, Face detection, Face tracking, Autoenfoque único
Autodisparador: 2, 10 s

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 imagenes 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: ± 2EV (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
Megapixeles: 10.1 MP
Micrófono incorporado: Si
Modo de auto-enfoque (AF): Autoenfoque continuo, Face detection, Face tracking, Autoenfoque único
Modos de disparo: Auto, Program

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 Pixeles
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 Pixeles
Resolución de la pantalla (numérica): 461000 Pixeles
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

(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: ± 2EV (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 mmMegapixeles: 10.1 MPMicrófono incorporado: SiModo de auto-enfoque (AF): Autoenfoque continuo, Face detection, Face tracking, Autoenfoque 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 PixelesNúmero 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 video: 640 x 480, 1280 x 720, 1920 x 1080 PixelesResolución de la pantalla (numérica): 461000 PixelesSeguro 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