Additional Information – PowerShot A1100 IS and PowerShot A2100 IS

Printing

The PowerShot A1100 IS and PowerShot A2100 IS feature a dedicated Print menu for quick access to direct print options. Full PictBridge support means users can print directly to any PictBridge compatible printer without the need for a PC. A Print/Share button allows one-touch printing and easy uploads to Windows or Mac systems.

Language

The PowerShot A1100 IS and PowerShot A2100 IS feature a user interface that supports 26 languages: English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese, Traditional Chinese, Japanese, Russian, Portuguese, Korean, Greek, Polish, Czech, Hungarian, Turkish, Thai, Arabic, Romanian, Ukrainian and Farsi.

Memory Card Support

In addition to SD, SDHC and MMC memory cards, the PowerShot A1100 IS and PowerShot A2100 IS support MMCplus and HC MMCplus card formats. Both cameras are supplied with a memory card.

Software and CANON iMAGE GATEWAY[1]

The PowerShot A1100 IS and PowerShot A2100 IS come bundled with the following Canon Software:

- ZoomBrowser EX 6.3 (Windows), ImageBrowser 6.3 (Macintosh): For organising and editing images, movies and slideshows, or creating and printing digital photo albums.
- PhotoStitch 3.1 (Windows), PhotoStitch 3.2 (Mac): For creating panoramic photos from multiple images.

The bundled software supports Windows Vista (including SP1) / XP SP2-3 and Macintosh OS X v10.4-10.5. Both cameras support PTP for driverless transfer to Windows XP and Macintosh OS X, along with MTP for image and movie transfers to Windows Vista.

[1] CANON iMAGE GATEWAY is not available in all European countries. Please see www.cig.canon-europe.com for available countries. Movie upload requires users to download and install the movie upload task, available after registration.

Purchasers of the PowerShot A1100 IS and PowerShot A2100 IS are eligible for free membership of CANON iMAGE GATEWAY: 100MB of online ‘personal gallery’ space for sharing stills and video with family and friends.

Optional Accessories

The PowerShot A1100 IS and PowerShot A2100 IS can be combined with the following accessories:

- Soft Case (DCC-85)
- High Power Flash (HF-DC1)
- AC Adaptor Kit (ACK800)
- Battery Charger Kit (CBK4-300)
- Ni-MH Batteries (NB4-300)

Technologies Explained

DIGIC 4

Canon's DIGIC 4 (Digital Imaging Core) image processor manages all of the camera's primary functions to optimize operating efficiency. Advanced image processing algorithms deliver superb image detail and colour reproduction with accurate white balance. High-speed processing results in outstanding responsiveness and rapid auto focus. DIGIC 4 also powers advanced Noise Reduction Technology, i-Contrast, Face Detection AF/AE/FE/WB and new Scene Detection Technology.

Scene Detection Technology

Available in Smart Auto and Easy modes, Canon's Scene Detection Technology analyses the shooting scene by taking into account subject brightness, contrast, distance and overall hue. The optimum settings are then automatically selected for each scene from a choice of 18 possible options. In Smart Auto mode, a colour icon indicating the type of scene detected – and the lighting conditions of the scene - is shown on the LCD monitor In Easy mode no icon is displayed, so that Easy mode remains as simple as possible with no distractions for the user.

Both Smart Auto and Easy modes give users the reassurance that the camera will take care of settings and deliver great results - even when shooting moving subjects, backlit scenes, night shots, sunsets, and shots taken at very close range. They also increase image dynamic range to reduce highlight blow-out when shooting bright scenes, reduces dynamic range to improve contrast in low-contrast scenes, and automatically enhances blue saturation for blue skies.

Face Detection AF/AE/FE/WB, Face Select & Track and FaceSelf-Timer

Canon's Face Detection AF/AE/FE/WB system automatically detects up to 35 faces within a frame before adjusting focus, exposure, flash and white balance to ensure optimal results. It is able to determine which faces are intended to be the subject, instantly reverting to the partnering 9-point AiAF system if no face is the primary subject. Thanks to the advancements brought about by DIGIC 4, Face Detection is now able to detect faces at an angle or in profile with enhanced speed and accuracy. Face Select & Track allows the user to select a particular face to be the main subject of a photograph and track it. FaceSelf-Timer allows easy group shots by automatically triggering the shutter shortly after a new face has entered the frame.

i-Contrast

Available in either shooting or playback mode, Canon's i-Contrast function analyses the exposure, dynamic range and other image characteristics of a shot, then adaptively increases the gain in dark areas – to produce heightened detail in darker regions, without blowing out correctly-exposed parts of the image. The noise reduction function of DIGIC 4 ensures minimal noise in the adjusted areas.

iSAPS

iSAPS (intelligent Scene Analysis based on Photographic Space) automatically optimises key camera settings before every shot. Each scene is analysed and cross-referenced against Photographic Space – a vast in-camera library of photographic data. This enables the camera to make optimal adjustments to auto exposure, auto focus and auto white balance before image capture occurs.

Optical Image Stabilizer

The PowerShot A1100 IS and PowerShot A2100 IS use a lens shift type Image Stabilizer (IS) system to detect and correct camera shake that can cause image blur. The IS delivers an approximate 3 stop advantage for improved performance in low-light conditions or when shooting at the telephoto end of the lens and when vibrations are more severe. Minute vibration gyros detect camera movement caused by hand shake. These signals – at 4,000 per second – are processed by a single-chip IS controller, which discriminates between hand shake and intentional camera movements. Shake signals are sent to the IS unit, which moves one of the lens elements accordingly to re-align the light rays and cancel out the effects of camera shake.

For improved accuracy and responsiveness, the moving lens element is supported on tiny ceramic spheres. In addition to minimising friction, ceramic spheres avoid some of the problems that can affect metal systems, such as thermal expansion and magnetism.

Motion Detection Technology

Part of Auto ISO mode, Motion Detection Technology uses several methods to detect movement of both camera and subject:

- Changes in brightness - detected by the Auto Exposure function
- Changes between frames – detected using pixel shift
- Face movement – detected by Face Detection Technology
- Camera shake – detected by the Image Stabilization system

ISO speed and shutter speed are then automatically adjusted to deliver minimum blur and maximum image quality. DIGIC 4 drives a number of new improvements to Motion Detection Technology. When a face is detected, shutter speed is now varied according to the speed at which the face moves. The amount of camera shake is also taken into consideration.