GENERAL DESCRIPTION OF PRODUCT

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1 Development Background

1-1 Development Objectives

The PowerShot A series was designed based on the concept of affordable pricing and simple operation but with image quality and features to match high-end models, and is characterized by its orthodox design similar to conventional 35mm cameras, its handy size for superb operability, and its versatility in being able to take AA batteries. In addition, with superb image quality, advanced features, and stylish design that outstrip all other products in the popular price bracket, the PowerShot A series, from the PowerShot A20/ A10 released in spring 2001 to the PowerShot A70/A60 released in spring 2003, has consistently won popular acclaim from the market and carved out a stable share.

However, competitors have begun offering their own affordable digital cameras using 4.0 million pixel CCDs, threatening Canon's lead in the market. Consequently, Canon plans to release its new Powershot A80 in autumn 2003, taking the design ideals of the PowerShot A70/A60 to the next level to outdo the competition in the same class by producing a 4.0 megapixel CCD camera with even more functions. The PowerShot A80 was developed as the flagship model of the PowerShot A series with the aim of enhancing the overall image of the PowerShot A series and expanding its market.

1-2 Product Concept

The concept behind the PowerShot A80 was to achieve a stylish and powerful digital camera distinct from competing models and from the PowerShot A70 in the highly competitive popular price bracket, with the aim of establishing the PowerShot A80 as the "PowerShot A series flag-ship model with features above and beyond the standard specifications."

Specifically, the PowerShot A80 is based on the PowerShot A70 with the following additional specifications.



- ★ New features unique to the PS A80 (Fall 2003 model)
- Improved features from the PS A70 (Features already provided on other spring 2003 models) Red characters indicate elements the development section would especially like to promote. PS: PowerShot

O Features carried over from the PS A70

Higher Image Quality / More Pixels

★New high resolution 3x zoom lens (38 - 114mm (35mm film equivalent), F2.8 - 4.9, Retractable)

- Approx. 4.0 million camera effective pixel 1/1.8 inch type CCD (Total number of pixel: approx. 4.1 million)
- Maximum recording pixels of still image: 2272 X 1704
- AF/AE/AWB that relies on an Intelligent Orientation Sensor to detect vertical / horizontal orientation
- High-definition and fast processing with the Digital Imaging Processor "DIGIC"
- O High-speed AF and high-definition AE/AWB based on iSAPS technology
- Fine color reproduction owing to primary color filters
- O Iris-type aperture enables multi-stop iris control and elegant blur
- Wide range of ISO-equivalent speed settings, including the high-image-quality ISO 50 (AUTO/ISO 50/100/200/400 equivalent)
- \circ (Auto + Five preset positions + Custom)
- \circ Total of 12 image quality modes (recording pixels (4) x compression (3))
- O Exif 2.2 (Exif Print) compliant

Advanced Functions

★ Supports PictBridge, which enables direct printing to other-vendor printers

• 9-point AiAF and 1-point AF selectable

- 14 shooting modes (with two customizable modes)
- Digital zoom function with continuously changing angle of view (Approx. 3.6x. Approx. 11x when used in combination with the optical zoom)
- Automatic detection of vertical/horizontal shooting by Intelligent Orientation Sensor
- Histogram display (during rec-review/playback)
- O Macro function focuses close to 5 cm (wide-end) and 25 cm (telephoto-end)
- Real image type 3x optical viewfinder
- O On/Off selection of AF-assist beam available
- Three metering functions (Evaluative metering, Center-weighted average metering and Spot metering)
- From 15-second to 1/2000-second shutter speeds
- O Built-in flash with 3 flashing modes (Auto, On and Off) with combination of red-eye reduction (Flash range: 45 cm - 4.4 m (W), 45 cm - 2.5 m (T), 25 - 45 cm (macro))
- O Use of power-saving LED for emitter of red-eye reduction
- Flash strength can be adjusted manually
- 5 photo effect modes
- O Noise reduction function reduces noise with slow shutter speed
- Settable display times for rec review (Off, 2 to 10 seconds)(Images can be erased during display)
- Self-timer function for approximately 2 or approximately 10 seconds

- Manual settings functions designed to meet user needs (Focus, Shutter speed, Aperture value, Exposure compensation)
- **O** Two types of recording pixels for movie mode (QVGA/QQVGA)
- O Long movie recording with audio (internal microphone and speaker, max. of 3 minutes)
- **O** Sound memos of up to 60 seconds can be appended during replay
- **O** Supports DPOF format image transfer
- O Canon Direct Print function compatible (Card Photo printers (CP Series) and Bubble Jet printers)
- Selectable video output format (NTSC/PAL)
- **O** UI can be displayed in twelve languages
- O My Camera function (Start-up image, start-up sound, shutter sound, operation sound and selftimer sound can be customized; on-camera contents can also be created)

Ease of Operation

- ★ Vari-angle LCD monitor that can disable mirror imaging
- \star Mute mode disabling all sounds except the warning sound
- \star Display Off mode that switches off the LCD monitor after a certain time
- Large buttons for easier operation (including zoom lever, shooting mode dial)
- Omni Selector provides easy operation
- Choice of High speed mode (approx. 2.4 shots/sec) or Normal mode (approx. 1.6 shots/sec.) in continuous shooting (Under Large/Fine conditions and LCD monitor off)
- Switchable MF zoom display
- O Mode switch toggles instantly between shooting and replay
- **O** Easy operation with a function button
- O Reset all settings with one-touch operation
- O Volume of each operation sound can be adjusted manually
- Magnified playback at approx. 2x to 10x zoom for convenient image viewing (Also available during rec-review)
- **O** High-speed image transfer during replay
- O Index replay (9-images)
- First frame, Last frame, Next frame, Previous frame, Fast forward and Rewind available during movie replay
- O Unwanted scenes can be deleted in movie replay mode (image and audio)
- O USB Interface with multi-use connector (mini-B jack)
- O Computer connections with Picture Transfer Protocol (PTP) support
- **O** Use of widely available size AA batteries (4 cells) (Primary: alkaline; secondary: NiMH)

Compact

★ Compact, new high resolution 3x optical zoom lens

• Space-saving 2-blade lens cover inside the lens barrel

O Thin 1.5 inch amorphous silicon TFT LCD monitor with low power consumption back light

O Small highly reliable and highly efficient light-guide flash

High Quality Design

Note: See "1-3 Design Concept"

★ High-grade design suitable for the flagship model of the PowerShot A series

O Large size grip with high-quality metallic-finish zoom lever on the tip

System Accessories

- ★ New Tele-Convertor for shooting of 200 mm telephoto angle (35mm film equivalent)*1
- Waterproof case submersible to 40 m (Equipped with double glass and flash light diffusion plate)
- New Wide Convertor for shooting of 26.6 mm wide angle (35mm film equivalent)*1 (Adopted from PowerShot A70/A60, A40/A30)
- O Close-up lens for improved macro shooting
- **O** Size AA NiMH rechargeable batteries and charger
 - *1 The Tele-Convertor / Wide Convertor 35mm equivalent focusing range are the values when a bayonet type conversion lens adapter*² is also used.
 - *2 The Tele-Convertor and conversion lens adapter are both new designs.

Application Software

Win: Windows, Mac: Macintosh

 Full Featured Application Software*¹ Digital Camera Solution Disk ArcSoft Camera Suite

- ZoomBrowser EX (Win) / ImageBrowser (Mac), with it's proven image control and display functionality, improved by integrating RemoteCapture.
- PhotoRecord (Win) for easy layout and printing of many pictures (using the new UI of ZoomBrowser EX)
- PhotoStitch (Win/Mac) for creating panoramic pictures with precision
- TWAIN Driver/WIA Driver (Win)
- Adobe Acrobat Reader (Win/Mac) for reading manual
- Proven third-party software
 - ArcSoft PhotoImpression (Win/Mac) for processing/editing still images
 - ArcSoft VideoImpression (Win/Mac) for processing/editing movies
 - Apple QuickTime (Win) for replaying movies
- *1 For more information on application software, see the Software Configuration Guide scheduled for future release.

1-3 Design Concept

The concept was to give the PowerShot A80 a fresh, elegant look that would mark it as a higher-end model to the PowerShot A70. We planned to achieve this by using gently curved surfaces, a fine balance between the interwoven parts, and inspirational two-tone coloring.

- Design points

- High quality look of the leading model in the PowerShot A series

While retaining the simplicity of low-end models, the PowerShot A80 also exudes an elegance associated with quality.

Since both the front and top covers are made from aluminum, the product name can be diamond-cut into the top surface. This aluminum finish gives the product a robust feel and high-grade appearance. The plated ring around the lens is also a sophisticated-looking design feature.

- Larger buttons for easier use

The tilted zoom lever and shutter button and the user-friendly mode dial were all designed for easy operation. The operation buttons stand in relief against the gently concave surrounding surface, making the buttons easy to locate and also a design feature. The large-size grip aims to make the PowerShot A80 easy to hold.

- Compact design

The crosswise ridged R was made as large as possible to make it appear thinner and smaller. The coloring also adds to the compact appearance of the PowerShot A80.

- Two-tone silver

The elegant appearance of the PowerShot A80 comes from its sophisticated two-tone coloring, which emphasizes the simple design lines of the camera by giving the grip and buttons a dark silver sheen, and the lens barrel a light silver sheen.

1-4 Product Specification Comparison

Comparison of the main features of the PowerShot A80 and the PowerShot A70

Note) Highlighted table items show changes from the PowerShot A70.

			PowerShot A80	PowerShot A70		
				Camera effective pixels :		
Image Sensor (CCD)		CCD)	Camera effective pixels : Approx. 4.0 million, 1/1.8 inch	Approx. 3.2 million, 1/2.7 inch		
	. .	, i	(Total pixels: Approx. 4.1 million)	(Total pixels: Approx. 3.3 million)		
C	olor Filter		Primary color filter (Bayer type)	ـــــــــــــــــــــــــــــــــــــ		
	Focal Length	1				
	(35mm film equivalent)		38 – 114 mm	35 – 105 mm		
	f/number		f/2.8 – 4.9	f/2.8 – 4.8		
s	Optical Zoon	1	3x	÷		
Ŀ	Shooting			· · · ·		
	Distance (from	Normal	45 cm – infinity	46 cm – infinity		
	the front of the					
	lens)	Macro	5 – 45 cm (W), 25 – 45 cm (T)	5 – 46 cm (W), 26 – 46 cm (T)		
		Type	Real-image zoom viewfinder	\		
0	otical	Dioptric		-		
VI	ewfinder	Adjustment	_	÷		
		, ,	1.5 inch amorphous silicon TFT color LCD	1.5 inch low-temperature polycrystalline silicon		
	CD Monitor		(Approx, 67000 pixels) with variable-angle function	TFT color LCD (Approx. 78000 pixels)		
5	Focusing Fra	ame	9-point AiAF/1-point AF (center-point)	5-point AiAF/1-point AF (center-point)		
2i	Manual Focu	IS	O	←		
ΒÖ	AF Lock		0	\leftarrow		
ĿС	AF-assist Be	am On/Off	0	\leftarrow		
F			Evaluative/center-weighted average/spot			
ntr	Light Meterir	ig System	(Spot metering: Metering is center-pointed)	←		
ပိ	Exposure Co	ntrol System	Program AF/Manual	<u>ل</u>		
e e	AF Lock	introl oyotom		`````````````````````````````````````		
Sol		monsation	+/ 2 stops in 1/2 stop incroments	х С		
18	Sensitivity	mpensation		с.		
۳	Censitivity		Auto, ISO 50/100/200/400 equivalent	Υ		
W	hite Balance		Flueroscont/Elueroscont H) + Custom	←		
		Tuno	Mochanical chutter + cleatronic chutter	<u> </u>		
Sł	nutter	Spood		С. С		
		Туро	13 - 1/2000 sec.	<u> </u>		
A	perture	f/number	f/2 = 8 - 8 0 (1/1) f/4 = 8 0 (T)	f/2 8 – 8 0 (\\/) f/4 8 – 8 0 (T)		
	1	Infumber	1/2.0 - 0.0 (W), 1/4.3 - 0.0 (T)	1/2.0 - 0.0 (1)		
	Operation Modes		* Red-eve reduction is available	←		
			45 cm $4.4 m$ (M) $45 cm$ $2.5 m$ (T) $25 - 45 cm$ (Macro)	46 cm = 4.2 m (M) + 46 cm = 2.5 m (T) + 26 + 46 cm		
	Flash Range		(1SO equivalent speed: Auto)	(Macro) (ISO equivalent speed: Auto)		
چ	Elash Expos	ure				
las	Compensatio	n	_	~		
ľ	Manual Flas		3 stops	6		
	FELock	TOulput		<u> </u>		
	Slow Sync			<u>`</u>		
	Second Curt	ain		ς 		
		am	Auto/Croative Zana (Dragram/Shutter anad	Auto/Croative Zone (Drogrom/Shutter anod		
			Auto/Creative Zone (Program/Shutter speed	Auto/Creative Zone (Program/Shutter speed		
	Shooting Mo	dee	Custom 2)/Programmed image control zone	Custom 2)/Programmed image control zone		
	Shooting Mo	ues	(Portrait/Landscape/Night Scene/East shutter/Slow	(Portrait/Landscape/Night Scene/East		
			(1 Ortrail/Landscape/Night Scene/Last Shutter/Slow	shutter/Slow shutter/Stitch Assist (Movie)		
	Digital Zoom					
s ا	Digital 200m		Approx. 5.0x			
fio	Image Qualit	y Adjustment		<u> </u>		
<u>S</u>	Noise Reduc	tion		с. 		
Scif	Focus Brack	oting		۲ ۲		
S	AFR (Auto F	xnosure				
p	Bracketing)		-	←		
<u>e</u>	Review		0	—		
, Po			High Speed (Approx, 2.4 shots/sec.) /	• · ·		
100	Continuous S	Shooting	Normal (Approx. 1.6 shots/sec.)	Approx. 2.2 shots/sec.		
			<pre><large and="" fine="" lcd="" mode="" monitor="" off=""></large></pre>	<large and="" fine="" lcd="" mode="" monitor="" off=""></large>		
	Interval Shoo	otina	_	←		
	Self-timer		Activates shutter after an approx. 2 sec./an approx. 10 sec. delay	←		
	Wireless Cor	ntrol		←		
	PC-controlled Shooting		0	<u> </u>		

			PowerShot A80	PowerShot A70		
	Recording M	edia	CompactFlash card (Type I)	~		
	File Format	Still Images	Design rule for camera file system, DPOF (Ver. 1.1) compliant	÷		
ရ		Movies	AVI	~		
tio	Recording	Still Images	JPEG (Exif 2.2 compliant)	+		
fica	Format	Movies	Image: Motion JPEG Audio: WAVE (Monaural)	+		
Recording Speci		Still Images	(L) 2272 x 1704, (M1) 1600 x 1200 (M2) 1024 x 768, (S) 640 x 480	(L) 2048 x 1536 (M1) 1600 x 1200 (M2) 1024 x 768 (S) 640 x 480		
	Number of Recording Pixels	Movies	(QVGA) 320 x 240 Approx. 3 min. at 15 fps (QQVGA) 160 x 120 Approx. 3 min. at 15 fps	(VGA) 640 x 480 Approx. 30 sec. at 15 fps (QVGA) 320 x 240 Approx. 3 min. at 15 fps (QQVGA) 160 x 120 Approx. 3 min. at 15 fps		
	Playback Mo	des	Single/Index (9 thumbnail images)/ Magnification/Movie	←		
		Magnification	2 – 10x	+		
ations		Automatic V/H Detection	O (by Intelligent Orientation Sensor)	~		
ific		Histogram	0	+		
lõ	Still Images	Sound Memos	The max. record/play time is approx. 60 sec.	+		
ŝ		DPOF	Print order/Image transfer	~		
Jayback		Direct Print	CP-300/CP-200/CP-100/CP-10, BJ printers with direct print support (free trimming) Supports PictBridge	CP-100/CP-10, BJ printers with direct print support (free trimming)		
	Movies	Special Playback	Next frame, Previous frame, Fast forward, Rewind, First frame, and Last frame	÷		
		Editing	Unnecessary scenes can be erased.	+		
Languages			12 languages (English, German, French, Dutch, Danish, Finnish, Italian, Norwegian, Swedish, Spanish, Simplified Chinese and Japanese)	←		
M	y Camera Set	tings	Start-up image, Start-up sound, Shutter sound, Operation sound, and Self-timer sound (Creation of new my camara content is possible.)	(
Int	terface	:	USB (mini-B), Audio / Video output	÷		
		Primary batteries	Size AA Alkaline battery (x4)	÷		
	Power	Secondary batteries	Size AA NiMH battery (type: NB-1AH recommended) (x4)	÷		
es		AC Adapter	Compact power adapter (CA-PS500)	~		
Suppli		Car Battery Adapter	_	←		
Power S	Battery Performance	Number of Shots	Approx. 250/350 shots (LCD monitor ON) Approx. 800/1000 shots (LCD monitor OFF) <size aa="" alkaline="" battery="" nb-1ah=""></size>	Approx. 250/350 shots (LCD monitor ON) Approx. 800/1000 shots (LCD monitor OFF) <size aa="" alkaline="" battery="" nb-1ah=""></size>		
		Playback Time	Approx. 280/280 min. <size aa="" alkaline="" battery="" nb-1ah=""></size>	Approx. 280 / 280 min. <size aa="" alkaline="" battery="" nb-1ah=""></size>		
Di	mensions		103.1 × 64.6 × 34.7 mm (4.06 x 2.54 x 1.37 in.) (excluding protrusions)	101.0 x 64.0 x 31.5 mm (3.98 x 2.52 x 1.24 in.) (excluding protrusions)		
Weight			Approx. 250 g (8.8 oz.)	Approx. 215 g (7.59 oz.)		

2 Features

2-1 Higher Image Quality/More Pixels

- New high resolution 3x optical zoom lens

The PowerShot A80 has a 3x zoom lens with focal length of 7.8 - 23.4 mm (35mm film equivalent: 38 - 114mm) for shooting everything from landscapes to close-up portraits. While the PowerShot A80 demonstrates the high resolution expected of a 4.0 million-pixel CCD, we optimized the positions of the lenses in the lens groups and reviewed the shapes of the lenses in order to reduce the radius of the foremost lens and the overall retraction length. The result was a compact configuration of 6 lenses in 5 groups including 2 aspherical lenses, which is 3 lenses fewer than in the PowerShot A70/A60. As a result, though the CCD itself is larger than in the PowerShot A70/60 (1/2.7 inch vs 1/1.8 inch), the lenses are smaller. By adopting a rear-focus technique that moves only 1 lens in group 3, it was possible to minimize the number of focusing lenses.

The compact lens configuration made more room for accommodating the open lens cover, and the conventional 4-blade lens cover inside the lens barrel was replaced by a simpler 2-blade lens cover.

- Approx. 4.0 million camera effective pixel 1/1.8 inch CCD

(Total number of pixels: Approx. 4.1 million; Max. recording pixels of still image: 2272 x 1704)

The PowerShot A80 uses the CCD sensor with approx. 4.0 million camera effective pixels (approx. 4.1 million total pixels) that was featured in the PowerShot S45 and the IXY DIGITAL 400. This CCD sensor allows the PowerShot A80 to capture still images with a recording pixel as large as 2272 x 1704. (The user can select from four recording pixel settings and three compression settings.)

	W x H (Pixel)
Large	2272 x 1704
Medium 1	1600 x 1200
Medium 2	1024 x 768
Small	640 x 480

Table 2-1 Number of recordingpixels in the PowerShot A80

- AF/AE/AWB that relies on an Intelligent Orientation Sensor to detect vertical/horizontal orientation

The PowerShot A80 uses the same Intelligent Orientation Sensor as the PowerShot G series and S series.

- Benefits for AF:

Weighting the AF frame differently for horizontal and vertical shooting reduces the incidence of incorrect selected measurement zone, which tends to occur during vertical shooting where the focal point is often the ground.

- Benefits for AE/AWB control:

When the sky takes up a significant portion of the upper half of a shot, the entire picture can look dim because of the brightness of the sky or can take on a yellowish tinge because of the blueness of the sky. In such cases, the high-precision control of the PowerShot A80 minimizes the effect of the sky on the rest of the shot thanks to the Intelligent Orientation Sensor, which can detect the orientation of the shot.

2-2 Advanced Functions

- Supports PictBridge, which enables direct printing from other-vendor printers

In order to make the PowerShot A80 compliant with the PictBridge standard*¹, enacted in February 2003, the camera was designed to allow direct printing even from non-Canon printers*².

- *1 The PictBridge standard enables connection between any camera and any printer regardless of the manufacturers.See the PictBridge Technical Guidance for details.
- *2 The connected printer must support the PictBridge standard.

- 9-point AiAF and 1-point AF selectable

The PowerShot A80 increases the number of AiAF measurement zones, based on which the camera automatically selects the appropriate AF frame, from the 5 available on the PowerShot A70 to 9. *This improved AiAF system makes focusing even more precise regardless of the position of the subject or the shooting orientation (vertical or horizontal).

The camera is also equipped with standard single center-point AF, enabling users to select the easiest AF function to suit the shooting conditions.

- * Features shared with the PowerShot A70:
 - When focusing, the positions of the focused measurement zones are displayed in green (when two or more positions are in focus, all focused measurement zones are displayed).

- 14 shooting modes (with two custom modes)

The PowerShot A80 has additional custom shooting modes. Using these custom modes, the user can save their shooting settings, the parameters of the shot such as focus and exposure. By saving often-used settings, the user can automatically recall those settings with a simple turn of the shooting mode dial. Two different shot settings can be saved.

(Savable parameters are shown on page 30, in 4-3 Functions Available in Each Shooting Mode)



Figure 2-1 Shooting mode dial

- Digital zoom function with continuously changing angle of view (Approx. 3.6x. Approx. 11x when used in combination with the optical zoom)

The PowerShot A80 uses a 4.0 million pixel CCD, thereby increasing the digital zoom magnification from the approx. 3.2x employed on the PowerShot A70 to approx. 3.6x. The field of view can be adjusted to a maximum of approximately 11x (35mm film equivalent: 35 - 383 mm) by combining the 3.6x digital zoom magnification with the 3x optical zoom.

In addition, because it is essential that the image displays smoothly on the LCD monitor when the digital zoom feature is used, there are several dozen image fetch positions for the monitor display.

The functions provided by the "DIGIC" imaging engine allow digital zoom and optical zoom to be performed at equivalent zoom speeds, so that there is no noticeable difference between the two during actual use.

Magnification	Focal length					
(Optical*	(35 mm film	Capturing pixels				
×Digital)	equivalent)					
3x	102 mm	2272 x 1704				
Capturing im	ages with several	positions for display				
4.3x	145 mm	1600 x 1200				
Capturing im	ages with several	positions for display				
5.3x	181 mm	1280 x 960				
Capturing im	ages with several	positions for display				
6.7x	226 mm	1024 x 768				
Capturing im	Capturing images with several positions for display					
8.2x 279 mm 832 x 62						
Capturing im	Capturing images with several positions for display					
11x	362 mm	640 x 480				

* Optical zoom is always set to telephoto-end when using digital zoom.

Table 2-2 Digital zoom focal length andcapture pixel resolution

- Automatic detection of vertical/horizontal shooting by Intelligent Orientation Sensor

During playback, images shot vertically or horizontally are so displayed on the LCD monitor. The Card Photo printer (CP-series) will automatically determine the orientation of a shot, and allow the user to add a date to the lower right corner of the image during printout. ZoomBrowser EX (ImageBrowser) also detects the picture orientation and lays out the pictures accordingly.

- Histogram display (during rec-review/playback)

The PowerShot A80 includes a histogram display function.

A histogram is a graph indicating brightness along its horizontal axis and the number of pixels of brightness along its vertical axis, with brighter images distributed towards the right side of the graph. The histogram

allows the user to check the brightness distribution of an image, making it possible to know the approximate degree of exposure.



Figure 2-2 Example of histogram display

2-3 Ease of Operation

- Vari-angle LCD monitor that can disable mirror imaging

The PowerShot A80 features a Vari-angle LCD monitor also featured in the PowerShot G series. When you shoot while looking at the LCD monitor from the lens side or from the side of the camera, the display shows a mirror image (reversed laterally). However, in previous models, images displayed in the monitor sometimes appeared unnatural.

The PowerShot A80 has been improved to provide a menu setting whereby the user can elect to disable mirror imaging. (See the example in Figure 2-3.)



Figure 2-3 Example of using the Vari-angle LCD monitor

- Mute mode disabling all sounds except the warning sound

The PowerShot A80 has a mute function that can be used to disable all sounds (except the warning sound) with one-touch operation. This allows shooting even in locations where silence is needed.

- Display Off mode that switches off the LCD monitor after a certain time

The PowerShot A80 has a Display Off mode that switches off the relatively power-hungry LCD monitor when the camera is not operated for a certain period of time, thereby saving energy.

- Large buttons for easier operation

The PowerShot A80 features an Omni selector and larger operating buttons than the PowerShot A70/60, including a zoom lever and shooting mode dial for an improved look and easier camera operation.

See 1-3 Design Concept on page 5.



Figure 2-4 Large buttons

- Choice of High Speed mode or Normal mode in continuous shooting

Similar to the PowerShot G series, the PowerShot A80 comes equipped with two selectable continuous shooting modes, the High Speed mode and the Normal mode.

In High Speed mode, the camera saves image data temporarily to a buffer, enabling high-speed continuous shooting. However, past a certain shooting speed, the display can no longer keep up, and the LCD monitor blacks out.

While Normal mode has a slower continuous shooting speed than High Speed mode, the display can handle the a greater number of successive shots than in High Speed mode, allowing the user to view images on the LCD monitor during shooting.

In either mode, the continuous shooting speed slows when the image buffer becomes full due to the need to create additional space for each picture while continuing to shoot. Shooting can still continue at this pace until the CF card becomes full.

- Switchable MF zoom display

The PowerShot A80 offers the same MF zoom function as the PowerShot G series and S series. This allows precise zoom focus positioning.

MF magnified display: On



MF magnified display: Off

Figure 2-5 MF zoom example

2-4 Compact

- Compact, new high resolution 3x optical zoom lens See *New high resolution 3x optical zoom lens* on page 8.

- **Space-saving 2-blade lens cover inside the lens barrel** See *New high resolution 3x optical zoom lens* on page 8.

2-5 High Quality Design

- High-grade design suitable for the flagship model of the PowerShot A series

See 1-3 Design Concept on page 5.

2-6 System Accessories

- Tel-Convertor for shooting at 200 mm telephoto angle (35mm film equivalent)

The PowerShot A80 is equipped with a 38 - 114 mm (35mm film equivalent) lens, but the newly developed Tele-convertor TC-DC52A makes it possible to shoot at telescopic range.

The TC-DC52A increases the focal length of the master lens by approximately 1.75x, allowing the equivalent of 200 mm^{*1} telescopic shooting^{*2} (maximum of 720 mm equivalent^{*1} when the digital zoom is also used). This allows a shooting magnification of approximately 7.5x with just the optical system, from 26.6 mm equivalent^{*1} when the WC-DC52 Wide convertor is used, to 200 mm equivalent^{*1} when the TC-DC52A Tele-Convertor is used.

Both the Tele-convertor and Wide Convertor require the new LA-DC52D conversion lens adapter for mounting onto the camera, but this new adapter uses the same bayonet ring as the previous model LA-DC52C, allowing for one-touch mount and dismount.

In addition, TC-DC52A can be used for the previous PowerShot A series (A70/60/40/30/20/10)*3.

- *1 All are 35mm film equivalent
- *2 Optical viewfinder cannot be used in combination with the Tele-Convertor (use the LCD monitor). In addition, the flash cannot be used due to shading.
- *3 If the previous model TC-DC52 is used for PowerShot A80, the performance is not guaranteed.

- Waterproof case submersible to 40 m (Equipped with double glass and flash light diffusion plate) The PowerShot A80 differs in shape from the PowerShot A70/A60, so a new waterproof case WP-DC900 was developed.*

* This case is functionally identical to the waterproof case for the PowerShot A70/A60 (WP-DC700). For more information on the waterproof case, see the technical guidance scheduled for future release.

3 Exterior

3-1 Exterior Photos



Photo 3-1 PowerShot A80 Front



Photo 3-2 PowerShot A80 Back (with LCD Monitor opened)



Photo 3-3 PowerShot A80 Back



Photo 3-4 Tele-Convertor (TC-DC52A)



Photo 3-5 Conversion Lens Adapter (LA-DC52D)

3-2 6-dimensional diagram







Unit: mm (inch)

3-3 Nomenclature



3-4 UI Information

- Shooting Menu (Shooting mode: Auto)



- FUNC.Menu (Shooting mode: Program)



- Rec. Menu

	1 1	20		Rec.	Menu
•AiAF	Aiaf	0n			
• Red-eye	\odot	0n			
• AF-assist Beam	₩ _Đ	0n			
• MF-Point Zoom	AĖ∻	0n			
Digital Zoom	Ð	On	Off	_	
• Review	, ;; ;	2 se	ec.	Þ	
Reverse display	$\blacktriangleright \blacksquare$	0n			
• Save settings	C	Save	e Setting	IS	



* All menu items are displayed on the above screen, some items may not appear in certain shooting modes.

- Set up Menu



- Play Menu



- My Camera Menu

		ît 🙎	•		Му	Camera
• Theme	2		1			
Start-up Image	:*:		1			
Start-up Sound	*)		1			
• Operation Sound	()		1			
• Self-timer Sound	<u>((ن</u>		1			
• Shutter Sound	(رھ	23	1	22	23	

4 Specifications

4-1 Camera Specifications

Brightness Adjustment

■ Image Sensor (CCD) **Camera Effective Pixels** Approx. 4.0 million pixels **Total Pixels** Approx. 4.1 million pixels Transfer Method Interline Chip Size 1/1.8 in. Aspect Ratio 4:3 Filter Type Primary color filter (Bayer type) Lens Focal Length 7.8 (W) – 23.4 (T) mm (35mm film equivalent: 38 (W) – 114 (T) mm) f/number f/2.8 (W) – 4.9 (T) Lens Construction 6 elements in 5 groups (including 2 aspherical lenses) **Optical Zoom** 3 x Shooting Distance Normal : 45 cm (1.5 ft.) – infinity (from the front of the lens) Macro : 5 - 45 cm (2.0 in. - 1.5 ft.)(W), 25 - 45 cm (9.8 in. - 1.5 ft.)(T) Manual : 5 cm (2.0 in.) – infinity, 25 cm (9.8 in.) – infinity Area of Photograph 56 x 42 mm (2.2 x 1.6 in.)(W), 87 x 65 mm (3.4 x 2.6 in.)(T) (at the minimum focal * When close-up lens 250D (52 mm) is attached : 45 x 34 mm (W) distance: W x H) (1.75 x 1.31 in.) <8 cm (3.1 in.) from tip of the lens> Magnification of Photograph 0.64 x (W), 0.40 x (T)(35mm film equivalent) (at the minimum Shooting Distance) Optical Viewfinder Type Real-image zoom viewfinder Eye point 16 mm **Dioptric Adjustment** Not available ■ LCD Monitor Type Amorphous silicon TFT color LCD (Vari-angle type) **Effective Pixels** Approx. 67 K pixels **Display Size** 37 mm diagonal (1.5 in.) Picture Coverage 100%

Not available

■ Focusing	
Control System	TTL Auto focus
Manual Focus	Available
Focusing Frame	9-point AiAF/1-point AF
	1-point AF: Center
Focusing Range	Normal/Macro
AF Lock	Available
AF-assist Beam On/Off	Available
Exposure Control	
Light Metering System	Evaluative/Center-weighted average/Spot
	*Metering frame with Spot mode: Center
Exposure control System	Program AE/Shutter speed-priority AE/Aperture priority AE/Manual
	exposure
AE Lock	Not available
Exposure Compensation	+/- 2 stops in 1/3-stop increments
Sensitivity	Auto, ISO 50/100/200/400 equivalent
	*Camera automatically sets optimum speed when "Auto" is selected.
On/Off Selection of ND	Not available
(Neutral Density) Filter	
White Balance	
Modes	TTL auto/Pre-set (Daylight/Cloudy/Tungsten/Fluorescent/Fluorescent H)
	/Custom

Shutter and Aperture							
Shutter Type	Mechanical shutter and electronic shutter						
Aperture Type	Iris type aperture						
Shutter Speed	15 - 1/2,000 sec.						
	• 1.3 – 15.0 sec. shu	tter speed is c	only available	in Shutter spe	ed-priority		
	mode or Manual m	node.	2	1	1 5		
	• Values in the table	below are ava	ilable in Shut	ter speed-prior	ity mode		
	or Manual mode.			1 1	5		
	1/2000, 1/1600, 1/1	250, 1/1000.	1/800, 1/640,	1/500, 1/400.	1/320.		
	1/250 1/200 1/160	1/125 1/100) 1/80 1/60	1/50 1/40 1/	30 1/25		
	1/20 1/15 1/13 1/1	, 1/1 2 0, 1/1 0 (/5 1/4 0"3 ()"4 0"5 0"6	0"8 1"		
	1"3 1"6 2" 2"5 3"	2 4" 5" 6"	8" 10" 13"	15"	, . ,		
	• The shutter speed	set by camera	in relation to	f/number in A	perture-		
	priority mode or se	ettable shutter	speed in relat	tion to f/numb	er in		
	Manual mode is as	shown in the	table below		•••		
	(W)						
	f/number availability	f/2.8	f/3.2 – f/4.0	f/4.5 – f/8.0			
	Shutter Speed	15 – 1/1000	15 – 1/1250	15 – 1/2000			
	(T)	<i>f(A</i> O	FIE C FIZ 1	£/8 0			
	Shutter Speed	15 – 1/1000	15 - 1/1250	15 – 1/2000			
f/numbor	f/2 9 9 0 (W) f/4 0	9.0 (T)					
1/Indiriber	f/2.8 - 8.0 (W), $f/4.9 - 8.0$ (1)						
	• Settable values in Aperture-priority mode or Manual mode						
	W: 1/2.8, 3.2, 3.5, 4.0, 4.5, 5.0, 5.6, 6.3, 7.1, 8.0						
	T : f/4.9, 5.6, 6.3, 7.1, 8.0						
Flash (Built-in)							
Operation Modes	Auto*/On*/Off						
	* Red-eye reduction is	available.					
Flash Range	45 cm - 4.4 m (1.5 - 4.4 m)	14 ft.)(W), 4	5 cm - 2.5 m	(1.5 - 8.2 ft.))(T)		
	25 - 45cm (9.8 in. -1.5 ft.)(Macro)(When sensitivity is set to Auto)						
Flash Sync Speed	1/60 - 1/500 sec.						
	(15 - 1/500 sec. when in Shutter priority AE or manual mode)						
Recycling Time (Full flash)	Recycling Time (Full flash) 10 sec. or less (battery voltage = 6.0 V (Type AA alkaline battery))						
Flash Exposure	Not available						
Manual Flash Output setting	3 steps (strong [100 % flash]/normal/low)						
FE Lock	Not available						
Slow Sync	Available						
Second Curtain	Not available						

■ Flash (External)	Not ava	ilable				
Flash Contacts						
Recommended Flashes						
Flash Exposure Compensation						
FE Lock						
Slow Sync						
Second-curtain Sync						
■ Shooting Specifications						
Shooting Modes	Auto/C	reative zone (Program/Shutt	er speed priorit	v/Aperture priority/		
	Manual/Custom 1/Custom 2)					
	Programmed image control zone (Portrait/Landscape/Night Scene/Fast					
	shutter/Slow shutter/Stitch Assist/Movie)					
Shooting Functions						
Digital Zoom	Approx	. 3.6x (Maximum of approx	. 11 x zoom is a	vailable when		
	combin	ed with optical zoom.)				
Photo Effects	Vivid/N	eutral/Low sharpening/Sepia	a/Black & White	e		
Image Quality Adjustment	Not ava	ilable				
Noise Reduction	When s	hutter speed is set between	1.3 sec and 15	sec.		
Bracketing	Not ava	ilable				
Focus Bracketing						
AEB (Auto Exposure						
Bracketing)						
Review	Off / 2-	-10 sec. (1 sec. increments))			
Camera start-up Time	Mode Finder Camera start-up Release time lag					
/Release Time Lag	Shooting	LCD monitor On (Start-up display On) LCD monitor On (Start-up display Off)	Approx. 2.8 sec. Approx. 2.8 sec.	Less than 0.1 sec. Less than 0.1 sec.		

Shooting Interval

			5
	LCD monitor On (Start-up display On)	Approx. 2.8 sec.	Less than 0.1 sec.
Shooting	LCD monitor On (Start-up display Off)	Approx. 2.8 sec.	Less than 0.1 sec.
	LCD monitor Off (Start-up display Off)	Approx. 2.4 sec.	Less than 0.1 sec.
Renlav	Start-up display On	Approx. 2.2 sec.	-
1 cpidy	Start-up display Off	Approx. 1.9 sec.	-

1.9 sec. (LCD monitor On) / 2.2 sec. (LCD monitor Off)

*Focus : Normal range and wide angle

*The actual shooting interval time consists of the shutter speed time added to the above times.

Shooting Specifications

Continuous Shooting Speed Mode Selection

Number of Shots

Speed

High speed*/Normal

*Shooting operation with LCD monitor as viewfinder is not possible in high speed mode.

High speed: approx. 2.4 shots/sec., Normal: approx. 1.6 shots/sec. (Large/Fine mode and LCD monitor is Off)

			С	ompressi	on
			SF	F	Ν
	т	High Speed	3	5	9
	L	Normal Speed	4	8	15
	M1	High Speed	5	9	16
Recording	1111	Normal Speed	8	15	29
Pixels	MO	High Speed	8	14	25
	IVIZ	Normal Speed	15	25	47
	ç	High Speed	17	28	49
	3	Normal Speed	33	54	96

*The above data shows the maximum number of shots for recording pixels and compression setting.

*After exceeding the maximum number of shots, continuous shooting is still available. However the shooting speed is reduced.

Not available

Activates shutter after an approx. 2-sec./10-sec. delay.

Not available

Shooting operation is possible with the use of "Remote Capture" software when camera is connected to the PC.

Interval Shooting Self-timer Wireless Control PC-controlled Shooting

Recording Specifications

<still image=""></still>													
File Format	Design rule for camera file system,												
	Digital Print Order Format (DPOF) Version 1.1 compliant												
Recording Format	JPEG (Exif 2.2)												
JPEG compression mode	Super Fine/Fine/Normal												
Number of Recording Pixels	Large: 2272 x 1704, Medium 1: 1600 x 1200,												
	Medium 2:	1024	x 768	, Sm	all: 64	40 x 4	80						
Recording Capacity*													
		L/SF	L/F	L/N	M1/SF	M1/F	M1/N	M2/SF	M2/F	M2/N	S/SF	S/F	S/N
	File Size (KB)	2002	1116	556	1002	558	278	570	320	170	249	150	84
	FC-8M	3	6	13	7	13	26	12	23	42	29	47	83

File Size (KB)	2002	1116	556	1002	558	278	570	320	170	249	150	84
FC-8M	3	6	13	7	13	26	12	23	42	29	47	83
FC-16M	7	13	26	14	26	52	25	46	84	58	94	165
FC-32M	14	27	54	30	54	108	53	94	174	120	196	337
FC-64M	30	54	110	61	109	217	107	189	349	241	393	676
FC-128M	61	110	220	122	219	435	215	379	700	482	788	1355
FC-256MH	123	222	443	246	440	868	431	762	1390	962	1563	2720

Unit: images

* The above data is measured under Canon testing standard and may vary depending on the scene, subjects or camera settings.

<Movies>

File Format Recording Format Number of Recording Pixels Frame Rate/Recording Time

Recording Capacity

AVI

 Frame rate (fps)
 Recording time*

 320 x 240
 15
 3 min.

 160 x 120
 15
 3 min.

Image: Motion JPEG, Audio: WAVE (Monaural)

QVGA: 320 x 240 QQVGA: 160 x 120

* The maximum recording time with an individual movie clip

* The SD memory card is required to contain the fixed space or over.

	320 x 240	160 x 120
File Size (KB)	330	120
FC-8M	21	58
FC-16M	44	118
FC-32M	91	242
FC-64M	183	486
FC-128M	368	973
FC-256MH	735	1954
	Un	it: Second

* Above data is measured under Canon's testing standard and may vary depending on the scene, subjects or camera settings.

<Common>

Recording Media

CompactFlashTM (CF) card (Type I)

25

Playback Specifications									
Playback Modes	Single/Index (9 thumbnail images)/Magnification/Movie								
<still image=""></still>									
Magnification	Approx. 2 – 10x								
Automatic Vertical/	Possible (Owing to IO sensor)								
Horizontal Detection	* Images are displayed vertically or horizontally according to the camera's shooting position.								
Image Rotation	Rotate image to 90 degrees or 270 degrees								
Histogram Display	Display brightness allocation of image. (Available during Rec review.)								
Sound Memos	Maximum of 60 sec. sound recording and sound replaying per image.								
Auto Play	Interval time: 3 sec.								
	Repeat: Always set to On								
DPOF	Print order/Image transfer								
Direct Print									
Canon Direct Print	Card photo printers: CP-300, CP-200, CP-100, CP-10								
	BJ printers with Direct print support:								
	(for Japan) BJ 895PD, BJ 535PD, PIXUS 50i, PIXUS 450i, PIXUS								
	470PD								
	(for overseas) \$830D, \$530D, i70, i450, i470D								
PictBridge	Supported								
<movies></movies>									
Special Playback	First frame/Last frame/Next frame/Previous frame/Fast forward/Rewind								
Editing	Unnecessary scenes (image + sound) can be erased. (Refer to Erasing modes.)								
Erasing Specifications									
Erasing Modes	 Still images: Single image/All images * The image data recorded with the Design rule for camera file system's format can be erased. However, protected images can not be erased. Movies: Part of movie*/All of movie * Can be erased from start-point to mid-point or from mid-point to end- 								
	point with the movie editing function. Furthermore, can be erased both from start-point to mid-point and from mid-point to end-point.								
Protection (Camera)	Erase prohibited (Set in playback modes.)								

Interface											
Computer I/F	USB* (mini-B jack)										
-	* All procedures performed with a connection to a USB 2.0 compliant										
	hoard are not guaranteed										
	board are not guaranteed.										
Communication Settings	PTP										
Video Out	NTSC/PAL										
Audio Out	Monaural										
Others											
Languages	12 languages are available for menu and messages.										
	English, German, French, Dutch, Danish, Finnish, Italian, Norwegian										
	Swedish Spanish Simplified Chinese and Japanese										
	Swedish, Spanish, Shiipinted Chinese, and Japanese										
My Camera Settings											
Selectable Items	Start-up image, Start-up sound, Shutter sound, Operation sound, and										
	Self-timer sound										
	* Each item can be created by users with the camera.										
Specifications	Items File size Specifications										
	Start-up image 20 KB 320×240 pixels, JPEG file with 4: 2: 0 or 4: 2: 2, A spect ratio of 4: 3										
	Start-up sound 10.9 KB 11 kHz : 1.0 sec. or less 8 kHz : 1.3 sec. or less										
	Shutter sound 3.36 KB WAVE (monaural) 11 kHz : 0.3 sec. or less 8 kHz : 0.4 sec. or less										
	Operation sound 3.36 KB 8bit 11 kHz : 0.3 sec. or less 8 kHz : 0.4 sec. or less										
	Self-timer sound 21.7 KB 11 kHz : 2.0 sec. or less 8 kHz : 2.0 sec. or less										

Power Supplies											
Primary Batteries	Type AA alkaline battery (x 4)										
Secondary Batteries	NiMH battery (x 4)(type: NB-1AH is recommended)										
AC Adapter	Compact Power Adapter (CA-PS500)*										
Car Battery Adapter	Not available										
Sub-battery	Coin-type secondary lithium battery (MS614S)										
Battery Performance	Use of type AA alkaline battery (Panasonic brand)*										
Number of Shots	LCD monitor On: Approx. 250 shots										
	LCD monitor Off: Approx. 800 shots										
	Use of NiMH battery (NB-1AH)*										
	LCD monitor On: Approx. 350 shots										
	LCD monitor Off: Approx. 1000 shots										
	* Under Canon testing standard:										
	Normal temperature (23°C). Shoot images at wide angle and at										
	telephoto end alternately with 20 seconds intervals. Use flash at every										
	fourth shot.										
	Turn camera off and on at every eight shot.										
Playback time	Use of type AA alkaline battery (Panasonic brand)*										
	Approx. 280 min.										
	Use of NiMH battery (NB-1AH)*										
	Approx. 280 min.										
	* Under Canon standard conditions:										
	Normal temperature (23°C). Repeat replay automatically at a speed of										
	1 image per 3 seconds. Factory default brightness setting.										
Battery Charging Time											
Inside the Camera	Not available										
Charger	Approx. 220 minutes. (CB-3AH)										
Power-saving Function On/Off	Available										
	Shooting modes: Powers down approx. 3 minutes after last operation.										
	Playback modes: Powers down approx. 5 minutes after last operation.										
	Does not power down in Auto Play mode.										
	Printer connection: Power down approx. 5 minutes after last operation.										
	PC connection: Does not powers down even if power-saving function										
	is On.										
- ~ ~											
Camera Specifications											
Operating Temperature	$\begin{bmatrix} 0 - 40^{\circ} \text{C} \\ 10 - 20^{\circ} \text{C} \end{bmatrix}$										
Operating Humidity											
Dimensions	$103.1 \times 64.6 \times 34.7 \text{ mm} (4.06 \times 2.54 \times 1.37 \text{ in.}) (Excluding protrusions)$										
Weight	Approx. 250 g (8.8 oz.)(Camera body only)										
	1										

4-2 Accessory Specifications

- Conversion Lens Adapter (LA-DC52D)

Dimensions	: See Figure 4-1.
Weight	: Approx.14 g (2.6 oz)
Attachment method	: Bayonet type



- Tele-Convertor (TC-DC52A)

Magnification	: Approx. 1.75x (shooting of 200 mm telephoto angle, 35mm film equivalent)
Lens construction	: 3 elements in 2 groups (Multicoat finishing)
Dimensions	: See Figure 4-2.
Weight	: Approx. 86 g (3.0 oz)
Thread diameter	: Diameter 52 mm (via conversion lens adapter)





- Wide Convertor (WC-DC52)

Magnification	: Approx. 0.7x (shooting of 26.6 mm telephoto angle, 35mm film equivalent)
Lens construction	: 2 elements in 2 groups (Multicoat finishing)
Dimensions	: Ø55.7 x 23.7 mm
Weight	: Approx. 74 g (2.6 oz)
Thread diameter	: Diameter 52 mm (via conversion lens adapter)
	* Adopted from PowerShot A70/A60/A40/A30/A20/A10

4-3 Functions Available in Each Shooting Mode

1) Settings saved at power off

Exposure Compensation		6.2	C1	Cre	Auve) 	Б	Auto	Land-	Night	Image	1 East	Clow	Ima	age2	
Compensation	±0			0*	0*	0*	0*	0*	scape O*	O*	O*	O*	0*	O*	0*	
	-2 - +2			×	0	0	0	X	0	0	0	0	0	\triangle	0	O Selectable
	Auto Davlight	H	H	0.	0.	0.	0.	×	0"	0	6	0*	0*	_O* 	0*	Selectable(The setting follows the registered shooting mode)
	Cloudy	Ë	芇	ŏ	ŏ	ŏ	ŏ	×	0	0	0	0	0	\triangle	0	△ Only the first shot in stitch assist can be selected.
White Balance	Tungsten			0	0	0	0	×	0	0	0	0	0	Δ	0	× Not selectable
	Fluorescent H	H	뷰	8	0	0	0	×	0	0	0	0	0	\triangle	0	Delaut value
	Custom1 *1			Ō	Ō	Ō	Ō	×	0	0	0	0	0	\triangle	0	Colord cell : The setting is memorized even when the camera is off.
	Single shot			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	* MF. Digital zoom and AE/EE lock are not available with the LCD monitor off
Drive *2	Continuous (Normal)	<u> </u>	믐	0	0	0	0	×	0	0	0	0	0	×	×	* White balance can not be selected when the photo effect is to Sepia or Black &
Drive 2	Self-timer (2 sec)	H	怡	0	6	6	6	ô	0	6	6	6	0	Â	ô	White.
	Self-timer (10 sec)			0	0	0	0	0	0	0	0	0	0	\triangle	0	*1 Stitch assist sheating is not momorized
Granda	AUTO		<u> </u>	×	0	0	0	0*	0*	0*	0*	0*	0*	0*	0*	*2 Default value of Av/Tv : f/4.0, 1/125 sec.
(Equivalent ISO film	ISO 50	H	뷴	0	0	0	0	×	×	×	×	×	×	×	×	*3 Default value of Volume is 2.
speed)	ISO 200			0	0	0	0	×	×	×	×	×	×	×	×	*4 Default value of Dsplay Off is 1.
	ISO 400			0	0	0	0	×	×	×	×	×	×	×	×	o Settings vary according to region as follows.
	Uff Vivid color	H	뷴	0.	0	0	0.	N N	0.	0	0	0	0	0*	0	Region Japan USA Europe Oceania
Photo Effect	Neutral color			0	0	Ō	Ō	×	0	0	0	Ō	Ō	\triangle	0	Date style YYMMDD MMDDYY DDMMYY DDMMYY
I HOLO ENGLI	Low sharpening			0	0	0	0	×	0	0	0	0	0	Δ	0	Language Japanese English English English
	Sepia Black & White	H	뷴	6	0	0	0	×	0	0	0	0	0	\triangle	0	Video System NTSC NTSC PAL PAL
Manual Catting of	Under		Ē	0*	×	×	×	×	×	×	×	×	×	×	×	
Flash Output	Middle			0	×	×	×	×	×	×	×	×	×	×	×	
	Over		8	0	×	×	×	×	×	×	×	×	×	×	×	
Number of	м1	H	H	0	0	0	0	0	0	0	0	0	0	Δ	x	
Recording Pixels (Still image)	M2			0	0	0	0	0	0	0	0	0	0	Δ	×	
Number of	S			0	0	0	0	0	0	0	0	0	0	Δ	×	
Recording Pixels	320x240 160x120	×	×	×	×	×	×	×	×	×	×	×	×	×	0	
IPEG Comprossion	Super Fine			0	0	0	0	0	0	0	0	0	0	Δ	×	
Mode	Fine			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	×	
	Normal			0	0	0	0	0	0	0	0	0	0		×	
Light Metering	Center-weighted average	H	H	0	0	0	0	×	×	×	×	×	×	×	×	
System	Spot			0	0	0	0	×	×	×	×	×	×	×	×	
AvTv * 2	Av			0	0	×	×	×	×	×	×	×	×	×	×	
	Iv Optical (Wide)	H	뷴	0*	×	0*	X	×	X	X	×	X	×	×	×	
Zoom Position *3	Optical (Other)	Ē	占	ŏ	ŏ	ŏ	ŏ	ŏ	0	ŏ	ŏ	ŏ	ŏ	Δ	0	
	Digital zoom			0	0	0	0	0	0	0	0	0	0	×	×	
AF Range	Normal		<u>-</u>	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
	AF		H	0*	0*	0*	0*	0*	Ô*	0*	0*	0*	0*	 O*	0*	
Focus System	MF			ō	0	0	0	×	0	0	0	0	0	×	0	
MF Distance				0	0	0	0	×	0	0	0	0	0	×	0	
Flach	Auto Flash On		먐	×	×	×	0	0*	0	0*	0*	0*	0	×	×	
i luon	Flash Off		i i i	0.	0*	0*	0*	õ	0*	0	õ	0	0*	0*	×	
	OVF			0	0	0	0	0	0	0	0	0	0	×	×	
Display EVF	EVF only		맘	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
Stitching Direction	Left	×	×	×	×	×	×	×	×	×	×	×	×	0*	×	
Selection	Right	×	×	×	×	×	×	×	×	×	×	×	×	Δ	×	
		_		Cro	ative							-				
REC MENU		C2		0.6	auve	•		A			mage			Im	002	
AiAF	On		101	м	Av) Tv	Þ	Auto	Land-	Night	Image	Fact	Slow	Ima	age2	
			C1	M	Av	Tv	P	Auto	Land- scape	Night	Portrait	Fast	Slow	Ima Stitch	Movie	
	Off			M 0* 0	Av 0*	Tv 0*	P 0*	Auto Auto O* ×	Land- scape	Night O*	Portrait	Fast	Slow O*	Ima Stitch O* ×	Movie	
Red-eye Reduction	Off On			M 0* 0*	Av 0* 0*	Tv 0* 0	P 0* 0*	Auto	Land- scape O* O*	Night O* O*	Portrait	Fast 0* 0*	Slow 0* 0*	Ima Stitch O* ×	Movie	
Red-eye Reduction	Off On Off			M 0* 0 0* 0 0 0 0	Av 0* 0* 0	Tv 0* 0 0* 0	P 0* 0 0* 0	Auto Auto O* × O* O* ×	Land- scape O* O O* O O	Night 0* 0* 0* 0* 0*	Portrait O*	Fast 0* 0* 0* 0*	Slow 0* 0* 0* 0	Ima Stitch O* × O* A	Movie O* × × × × ×	
Red-eye Reduction MF-point Zoom	Off On Off On Off			 M O* O* O* O* O* 	Av 0* 0* 0 0* 0	Tv 0* 0 0* 0 0*	P 0* 0* 0 0* 0	Auto Auto O* × O*	Land- scape O* O O* O O * O O * O	Night 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*	Portrait O* O* O* O* O* O* O* O*	Fast 0* 0* 0* 0* 0* 0	Slow 0* 0* 0 0* 0	Ima Stitch × O* × ×	Movie 0* × × × × × × × × ×	
Red-eye Reduction MF-point Zoom AF-assist Beam	Off On Off On Off Off			 M O* O* O* O* O* O* O* 	Av 0* 0 0* 0 0 0 0 0 *	Tv 0* 0 0* 0 0 0 0 0 0 0 0 0	P 0* 0 0* 0 0 0 0 0 0 0 0*	Auto Auto 0* × 0* 0* 0* 0* 0* 0*	Land- scape 0* 0 0* 0 0 0 0 * 0 0 *	Night 0* 0* 0 0* 0* 0 0*	Portrait O* O O* O O* O O* O O* O O* O O*	Fast 0* 0* 0* 0* 0* 0*	Slow 0* 0 0* 0 0* 0* 0*	Ima Stitch ○* △ ○* ○* ○* ○* ○*	Movie O* X X O* O*	
Red-eye Reduction MF-point Zoom AF-assist Beam	Off On Off On Off On Off On Off			 M O* O O* O*	Av 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0	Tv 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0	P 0'00'00'00'00'00'00'00'00'00'00'00'00'0	Auto Auto O*	Land- scape 0* 0 0* 0 0* 0 0 * 0 0 *	Night 0* 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Portrait O* O O* O O* O O O C * O O O C * O O C C C C	Fast 0* 0 0* 0 0 0 0 0 0 0 0	Slow 0* 0* 0* 0* 0* 0* 0* 0*	Ima Stitch 0* × 0* 0* 0* 0* 0*	Movie 0* × × × × × 0* 0* 0*	
Red-eye Reduction MF-point Zoom AF-assist Beam Digital Zoom	Off On Off On Off On Off On Off Off			 M O* O	Av 0* 0 0* 0 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0	Tv 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0	P 0*00*00*00*00*00*00*00*00*00*00*00*00*0	Auto Auto 0* × 0* 0* 0* 0* 0* 0*	Land- scape 0* 0 0* 0 0* 0 0* 0 0 0 0 0 0 0	Night 0* 0 0* 0 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0	Portrait O*	Fast 0* 0 0* 0 0* 0 0* 0 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0	Slow 0* 0 0* 0 0* 0 0* 0 0 0 0 0 0 0	Ima Stitch ○* △ ○* ○* ○* ○* ○* ○* ○* ○* × ○* × ○* × ○* × ○* ○* × ○* ○* ○* ○* ○* ○* ○* ○* ○* ○*	Movie 0* × × × × × × × × × × × × ×	
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Red-eye Reduction MF-point Zoom AF-assist Beam Digital Zoom Review (REC. review) Reverse Display Save Settings	Off On Off On Off On Off On Off Off Off On Off 2 sec. - 10 sec. On Off C save setting 1 C save setting 2			 ▼ ○ ○<	Av 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*	Tv 0* 0 0* 0 0* 0 0* 0 0* 0 0* 0 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*	P 0* 00* 00* 00* 00* 00* 00* 00* 00* 00*	Auto Auto 0* × 0* × 0* <td>Land- scape 0* 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Night 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*</td> <td>Appendix Portrait O* O*</td> <td>Fast 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*</td> <td>Slow 0* 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Ima Stitch ○* △ × ○* △ × ○* △ × ○* △ × ○* △ ○* △ ○* △ ○* ◇ ○* × ○* × ○* × × × × × × × × × × × × ×</td> <td>Movie O* × × × · · · · · · · · · · · · ·</td> <td></td>	Land- scape 0* 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Night 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*	Appendix Portrait O*	Fast 0* 0* 0* 0* 0* 0* 0* 0* 0* 0*	Slow 0* 0 0 0 0 0 0 0 0 0 0 0 0 0	Ima Stitch ○* △ × ○* △ × ○* △ × ○* △ × ○* △ ○* △ ○* △ ○* ◇ ○* × ○* × ○* × × × × × × × × × × × × ×	Movie O* × × × · · · · · · · · · · · · ·	
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Red-eye Reduction MF-point Zoom AF-assist Beam Digital Zoom Review (REC. review) Reverse Display Save Settings Save Settings Setup MENU Beep Volume Setting*3 Start-up sound vol Shufter sound v	Off Off On Off On Off On Off On Off On Off Off Off Off Off Off Off Con Off Con Off On Off On Off On Off 0.1.2.3.4.5 0.1.2.3.4.5 0.1.2.3.4.5 0.1.2.3.4.5 0.1.2.3.4.5 0.1.2.3.4.5 Off 10.2.3.4.5 Off 0.1.2.3.4.5 Off 0.1.2.3.4.5 Off 0.1.2.3.4.5 Off 0.1.2.3.4.5 Off 0.0 On Off On Off On On			M 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	Av 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	I I <thi< th=""> <thi< th=""> <thi< th=""> <thi< th=""></thi<></thi<></thi<></thi<>	P 0	Auto O*	Land- 362092 0 0 0 0 0 0 0 0 0 0 0 0 0	Night 0* 0 0* 0 0 0 0 0 0 0 0 0 0 0 0 0	mage Portrait 0* 0 0* 0 <td>Fast 0*</td> <td>Slow 0°</td> <td>Image Stitch 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0</td> <td>age2 Movie × × × × × × × × × × × × ×</td> <td></td>	Fast 0*	Slow 0°	Image Stitch 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0* 0	age2 Movie × × × × × × × × × × × × ×	
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Red-eye Reduction MF-point Zoom AF-assist Beam Digital Zoom Review (Rec. review) Reverse Display Save Settings SETUP MENU Beep Volume Setting*3 Start-up sound vol Playback vol. Auto Power Down S Auto Power Down S Auto Power Down S Auto Power Down S Datef Tima *6 Date Style *5 Format File No. Reset Rotate Distance Units Language *5	Off Off On Off On Off On Off On Off On Off On Off Con Off Con Off Con Off Con Off Con Off On Off On Off 0.1.2.3.4.5 0.1.2.3.4.5 0.1.2.3.4.5 0.1.2.3.4.5 Off 10.2.3.4.5 Off On			▼ 0	Av 0* 0	Image: second	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Auto o* o* o* o* o* o* o*	Land- Scope O* O* O O* O O* O O* O O* O O* O O* O O* O O* O O* O O* O O* O O* O O* O O* O*	Night 0* 0 0*	Portrait Portrait O*	Fast 0*	Slow 0* 0 <td>Imit Stitch 0* X 0* 0</td> <td>age2 Movie 0* × × × × × × × × × × × × × × × × *</td> <td></td>	Imit Stitch 0* X 0* 0	age2 Movie 0* × × × × × × × × × × × × × × × × *	

2) Settings saved when changing shooting modes

			04	Las	auv	5 .		Auto	Land-	Marke	mage	: I 	0.0	Ima	iyez	
Exposure	+0			M	AV O*	0*	P	Auto	scape	Night	Portrait	Fast	Slow	Stitch	Movie O*	O Selectable
Compensation	-2 - +2			×	õ	ŏ	õ	×	õ	õ	õ	õ	õ	Δ	õ	Selectable
	Auto			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	△ Only the first shot in stitch assist can be selected.
	Cloudy	Ľ.		0	0	0	0	Â	0	0	0	0	6		0	* Default value
White Balance	Tungsten			0	0	0	0	×	0	0	0	0	0	\triangle	0	
	Fluorescent H			0	0	0	0	×	0	0	0	0	0		0	Colored cell (
	Custom1 *1			0	0	0	0	×	0	0	0	0	0		0	in same color.
	Single shot			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
Drive *2	Continuous (Normal)	믄	<u>-</u>	0	0	0	0	×	0	0	0	0	0	×	×	When switched to a mode in another color, its default value will be set.
Drive 2	Self-timer (2 sec)	븝	H	0	6	6	0	ô	0	0	0	0	6	Â	ô	switches to Tv → High speed continuous shooting
	Self-timer (10 sec)			0	Ō	0	0	Ō	0	0	0	0	0	\triangle	0	switches to Auto or Landscape → single shot
Granda	AUTO			×	0	0	0	0*	0*	0*	0*	0*	0*	0*	0*	* MF. Digital zoom and AE/FE lock are not available with the LCD monitor of
(Equivalent ISO film	ISO 50	븜	H	0	0	0	0	×	×	×	×	×	×	×	×	* White balance can not be selected when the photo effect is to Sepia or
speed)	ISO 200			Õ	ŏ	õ	õ	×	×	×	×	×	×	×	×	Black & White.
	ISO 400			0	0	0	0	×	×	×	×	×	×	×	×	*1 Stitch assist shooting is not memorized
	Off Vivid color		맘	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	*2 Default value of Av/Tv : f/4.0, 1/125 sec.
Dhata Effaat	Neutral color			0	0	0	0	×	0	0	0	0	ŏ	\triangle	0	*3 Default value of Volume is 2.
FIIOLO Ellect	Low sharpening			0	0	0	0	×	0	0	0	0	0	Δ	0	*4 Default value of Display Off is 1. *5 Settings vary according to region as follows:
	Sepia Block & M/bito			0	0	0	0	×	0	0	0	0	0	Δ	0	
Manual Oamian at	Under			0*	×	×	×	×	×	×	×	×	×	×	×	Date/Time The time is not set before shipping
Flash Output	Middle			0	×	×	×	×	×	×	×	×	×	×	×	Date style YYMMDD MMDDYY DDMMYY DDMMYY
	Over			0	×	×	×	×	×	×	×	×	×	×	×	Language Japanese English English English
Number of	L M1	H	H	0	0	0	0	0	0-	0	0	0	0	0-	×	Video System NTSC NTSC PAL PAL
Recording Rivels (Still image)	M2			0	0	0	0	0	Ō	0	0	0	0	Δ	×	
Fixels (Still Image)	S			0	0	0	0	0	0	0	0	0	0	Δ	×	
Number of Recording Rivels	320x240	×	×	×	×	×	×	×	×	×	×	×	×	×	0*	
Recording Fixels	Super Fine	Â	ĥ	ô	ô	ô	ô	ô	ô	ô	Ô	ô	ô	Â	×	
JPEG Compression	Fine			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	×	
WIDGE	Normal			0	0	0	0	0	0	0	0	0	0		×	
Light Metering	Evaluative Center-weighted average			0*	0.	0*	0.	0* ×	0* ×	0*	0*	0*	0*	0* ×	0*	
System	Spot			0	õ	0	õ	×	×	×	×	×	×	×	×	
AvTv * 2	Av			0	0	×	×	×	×	×	×	×	×	×	×	
	Tv Optical (Mide)			0	X	0	X	×	X	X	X	X	X	×	X	
Zoom Position *3	Optical (Wide)	H	H	0	0	0	0	0	0	0	0	0	0	∆.	0	
	Digital zoom			0	0	0	0	0	0	0	0	0	0	×	×	
AF Range	Normal			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
. .	Macro		<u>-</u>	0	0	0	0	0	X Ot	0	0	0	0		0	
Focus System	MF			6	0	6	0	×	0	0	0	0	6	×	0	
MF Distance				0	0	0	0	×	0	0	0	0	0	×	0	
F 1	Auto			×	×	×	0	0*	0	0*	0*	0*	0	×	×	
Flash	Flash On Flash Off	H	H	0*	0*	0*	0*	× 0	0*	0	0	0	0*	∆ 0*	×	
	OVF			õ	ŏ	ō	0	0	0	0	0	0	ō	×	×	
Display EVF	EVF only			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
Stitching Direction	EVF+INFO	Ū		0	0	0	0	0 V	0	0	0	0	0	0	0	
Selection	Right	×	×	×	×	×	×	×	×	×	×	×	×	Δ	×	
									_							
		L.		Cre	ativ	e 	-	Auto	Landa		mage	1		Ima	ige2	
	0-	C2	C1	M	Av	TV	P	Auto	scape	Night	Portrait	Fast	Slow	Stitch	Movie	
	Off	H I		0	0	6	0	×	0	0	0	0	0	×	×	
Red-eye Reduction	On			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	×	
	Off			0	0	0	0	0	0	0	0	0	0	Δ	×	
MF-point Zoom	On Off		H	0*	0	0*	0*	X 0*	0*	0*	0*	0*	0*	× O*	X O*	
AF-assist Beam	On			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
	Off			0	0	0	0	0	0	0	0	0	0	Δ	0	
Digital Zoom	On			0	0	0	0	0	0	0	0	0	0	×	×	
Review	Off			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	×	×	
(REC. review)	2 sec.			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	Ō*	×	
	- 10 sec.			0	0	0	0	0	0	0	0	0	0	Δ	×	
Reverse Display	On Off			0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	×	0*	
Save Settings	C save setting 1	0*	0*	0*	0*	0*	0*	×	×	×	×	×	×	×	×	
	C save setting 2	Ó	Ó	Ó	Ó	Ó	Ó	×	×	×	×	×	×	×	×	
					_											
		_		Cre	ativ	•		Auto	_		mage	1		Im	age?	1
SETUP MENU		C2	C1	M	Av	Tv	Р	Auto	Land-	Night	Portrait	Fast	Slow	Stitch	Movie	
Beep	On	0	0	0	0	0	0	0	O	0	0	0	0		0	
	Off	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0	0	
Volume Setting*3	040046	6					10									
Start-up sound vol.	0,1,2,3,4,5	0	0	0	6	0	0	0	0	0	0	0	0		0	
Self-timer sound vol.	0,1,2,3,4,5	0	0	0	0	0	0	ŏ	0	0	õ	0	0		õ	
Shutter sound vol.	0,1,2,3,4,5	0	0	0	0	0	0	0	0	0	0	0	0	Δ	0	
Playback vol.	U,1,2,3,4,5	0	10	10	10	10	0	0	0	0	0	0	0	Δ	0	
Auto Power Off	On	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0	0	1
	Off	0	0	0	0	0	0	0	0	0	0	0	0		0	
Display Off *4	10, 20, 30 sec., 1, 2, 3 min.	0	0	0	0	0	0	0	0	0	0	0	0	Δ	0	
Date/Time *5	an also alama ser al	0	0	0	0	0	0	0	0	0	0	0	0		0	
Format	may,arny,ymd	0	0	0	0	0	0	0	0	0	0	0	0	X	0	
File No. Reset	On	ŏ	0	Ō	Õ	0	õ	õ	0	ō	0	ō	ŏ	Δ	Õ	1
	Off	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
Rotate	On Off	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	×	
Distance Units	m/cm	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	0*	
	ft/in	0	0	0	0	0	0	0	0	0	0	0	0	Δ	0	
Language *5		0	0	0	0	0	0	0	0	0	0	0	0	Δ	0	
Video System *5	NTSC	0	0	0	0	0	0	0	0	0	0	0	0		0	
1	PAL	0	10	10	TO I	10	10	.0	.0	10	10	10	10		10	

4-4 Playback compatibility

Г				Playback Cameras																			
				PS 350	PS A5 PS A5Z	PS Pro70	PS A50	PS S10 PS S20	PS G1 PS G2 PS Pro90IS PS S40 PS S30	IXY D PS A20 PS A10	ID 200 ID 300 ID 300a ID 200a PS A40 PS A30 PS A200 PS A100	EOS D30 D60	EOS 1Ds EOS 1D	PS S45 PS G3 PS S50	ID 320 PS A70 ID 400 PS A300	PS A60	ID 30	PS G5	PS A80	PS SD10			
		PS 350	CIFF	0	0	0	0	0	×	×	×	×	×	×	×	×	×	×	×	×	O:Playbackable		
		PS A5/A5 Z	CIFF	Δ	O*1	O*1	O*1	O*1	×	×	×	×	×	×	×	×	×	×	×	×	riangle : Not playbackable when		
		PS Pro70	CIFF	\bigtriangleup	O*2	O*1	O*1	0*1	×	×	×	×	×	×	×	×	×	×	×	×	RAW image		
		PS A50	CIFF	\bigtriangleup	O*2	O*1	O*1	O*1	×	×	×	×	×	×	×	×	×	×	×	×	▲:Thumbnail plays back		
			DCF	×	×	×	O*1	O*1	O*1	O*1	O*1	O*1	O*7	O*1	O*1	O*1	×	O*1	O*1	×	when movie		
		PS S10/S20	DCF (Still)	×	×	×	O*3	0	0	0	0	0	O*7	0	0	0	×	0	0	×	×: Not playbackable		
		PS G1/G2/S40/S30 PS Pro90 IS	DCF (Still)	×	×	×	O*1*3	O*1	0	O*1	O*1	0	O*7	0	O*1	O*1	×	0	O*1	×			
			(Movie)	×	×	×	A	A	0	A	O*5	A	A	0	0	O*5	×	0	0	×			
		D 300/200/300a/200a	DCF (Still)	×	×	×	0	0	0	0	0	0	O*7	0	0	0	×	0	0	×			
s	١s	PS A40/A30/A200/A100	(Movie)	×	×	×	A	A	0	A	0	A	▲	0	0	0	×	0	0	×			
er	اق ا	IXY D/PS A10/A20	DCF (Still)	×	×	×	0	0	0	0	0	0	O*7	0	0	0	×	0	0	×			
a	Ű	EOS D30/D60/1D	DCF (Still)	×	×	×	O*1*3	O*1	0	O*1	O*1	0	O*7	0	O*1	O*1	×	0	O*1	×			
ဗ		EOS 1Ds	DCF (Still)	×	×	×	O*1*3	O*4	O*4	O*4	O*4	O*4	O*7	O*4	O*4	O*4	×	0	0	×			
Image taking		PS S45/G3 PS S50/G5	DCF (Still)	×	×	×	O*1*3	O*1	0	O*1	O*1	0	O*7	0	O*1	O*1	×	0	O*1	×			
			(Movie)	×	×	×	A	A	O*5*6	A	O*5*6	A	A	0	0	O*5	×	0	0	×			
		ID 320/400/PS A80	DCF (Still)	×	×	×	O*3	0	0	0	0	0	O*7	0	0	0	×	0	0	×			
		PS A70/A300	(Movie)	×	×	×	A	A	O*5*6	A	O*5*6	A	A	0	0	O*5	×	0	0	×			
		PS A60	DCF (Still)	×	×	×	O*3	0	0	0	0	0	O*7	0	0	0	×	0	0	×			
			(Movie)	×	×	×	▲	▲	O*6	▲	O*6	▲	A	0	0	0	×	0	0	×			
		D 30/ PS SD10	DCF (Still)	×	×	×	×	×	×	×	×	×	×	×	×	×	0	×	×	0			
			(Movie)	×	×	×	×	×	×	×	×	×	×	×	×	×	0	×	×	0			
	È	DCF that uses	DCF (Still)	×	×	×	O*3	O*4	O*4	O*4	O*4	O*4	O*7	O*4	O*4	O*4	×	O*8	O*8	×			
	pa	CF card	(Movie)	×	×	×	A	A	A	A	A	A	A	A	A	A	×	A	A	×			
	LO LO	DCF that uses SD memory card	DCF (Still)	×	×	×	×	×	×	×	×	×	×	×	×	×	O*4	×	×	O*8			
	15		(Movie)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×			
	t e	DCF that uses other	DCF (Still)	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×			
	Ő	media	(Movie)	×	×	×	×	×	×	×	×	×	×	×	×		×	×	×	×			

*1: Thumbnail displays of RAW image *2: Thumbnail displays of RAW image / JPEG file plays back up to 1024×768 pixels

*5: Not play back when file size exceeds fixed capacity

*6: Not play back when movie's play time exceeds time limit

*3:PEG file plays back up to 1320/2400 pixels / (Thumbnail displays when more than 1632×1232 pixels) *3:PEG file plays back up to 3200×2400 pixels / (Thumbnail displays when more than 3200×2400 pixels) *8:PEG file plays back up to 4064×3048 pixels / (Thumbnail displays when more than 4064×3048 pixels)

5 System

5-1 Accessory compatibility

	PS A80	PS G3 PS G5	ID 30	PS A300 PS A200 PS A100	ID 400	PS A70 PS A60	PS S50 PS S45 PS S40 PS S30	I D 320 I D 200a I D 200	I D 300a I D 300	PS A40 PS A30	PS G2	PS A20 PS A10	ixy Digital	PS Pro 90 IS	PS G1	PS S10 PS S20	PS Pro70	PS A5 PS A5Z PS A50
<battery></battery>																		
NB-5H	-	-	-	- 1	-		-	-	-	-	-	-	-	-	-	0		0
NB-4H	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	0	-
NB-1L/1LH	-	-	-		0	-	-	0	0	-	-	-	0	-	-	-	-	-
BP-511	-	0	-		-	-	-	-	-	-	0	-	-	0	0	-	- 1	-
BP-512	-	0	-	- 1	-	-	-	-	-	-	0	-	-	-	-	-	- 1	-
NB4-100	0	-	-	O*1	-	0	-	-	-	0	-	0	-	-	-	-	- 1	-
NB-2L	-	-	-	- 1	-	-	0	-	-	-	-	-	-	-	-	-	- 1	-
NB-3L	-	-	0	- 1	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-
*1: 2 sets of 2 batteries (4 battery packages).																		
<adapter charge<="" td=""><td colspan="15">></td><td></td></adapter>	>																	
CA-PS100/100E		-	-	- 1	-	- 1	-	-	-	-	-	-		-	-	0		0
CA-PS200	-	-	-		-	-	-	-	-	-	-	-	- 1	-	-	-	0	-
CA-PS300	-	-	-		-	-	-	-	-	-	_	-	0	-	-	-	-	-
CA-PS500	$-(0)^{*2}$	-	0	-	0	-(O)*2	-	0	0	-(0)*2	-	-(O)*2	Ō	-		-		-
CA-560	-	0	-		-	-	-	-	-	-	0	-	-	0	0	-	- 1	-
CA-PS700	-	-	-		-	-	0	-	-	-	-	-	-	-		-	- 1	-
CR-560	-	0	-		-	-	-	-	-	-	0	-	-	0	0	-	- 1	-
CA-PS800	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-
CB-2L/2LE	-	-	-		-	-	-	-	-	-	-	-	0	-	-	-	- 1	-
CB-2LS/2LSE	-	-	-		0	-	-	0	0	-	-	-	-	-	-	-	- 1	-
CB-3AH	0	-	-	O*3	-	0	-	-	-	0	-	0	-	-	-	-	- 1	-
CBK100	0	-	-	O*3	-	0	-	-	-	0	-	0	-	-	-	-	- 1	-
CB-2LT/CB-2LTE	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	- 1	-
CB-2LU/2LUE	-	-	0	-		-	-	-	-	-	-	-	-	-		-	- 1	-
CBC-NB1	-	-	-		0	-	-	0	0	-	-	-	-	-	-	-	- 1	-
CBC-NB2	-	-	-		-	-	0	-	-	-	-	-	-	-	-	-	- 1	-
CB-5L	-	0	-	- 1	-	-	-	-	-	-	0	-	-	0	0	-	- 1	-
CA-570 + CG-570	-	0	-	- 1	-	-	-	-	-	-	0	-	-	0	0	-	- 1	-
*2: It is possible to use by inserting the adapter's DC plug in the jack of PS A70/A60/A40/A30/A20/A10 cameras directly without using DC coupler.																		
Coupler> *3: 4 batteries (2 set of 2) can be recharged.																		
DR-100/100A	_	_	-	- 1	-		-	-	-	-	_	_	_	-		0		0
DR-200	-		-				-	-	-	-	-		-	-	-	-	0	-
DR-300	_	-				-	-	-	-	-	_	-	0	-		-		-
DR-500	_	_			0		-	0	0	-	_		-	-		-		_
DR-700	-	-	-		-	-	0	-	-	-	_	-	-	-	-	-		-
DR-900	-	-	0		-	-	-	-	-	-	_	-	-	-	-	-	-	-
	PS A80	PS G3 PS G5	ID 30	PS A300 PS A200 PS A100	ID 400	PS A70 PS A60	PS S50 PS S45 PS S40 PS S30	I D 320 I D 200a I D 200	I D 300a I D 300	PS A40 PS A30	PS G2	PS A20 PS A10	ixy Digital	PS Pro 90 IS	PS G1	PS S10 PS S20	PS Pro70	PS A5 PS A5Z PS A50
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<lens accesory=""></lens>																		
WC-DC58	-	-	-	-	-	-	-	-	-	-	0	-	-	0	0	-	-	-
WC-DC52	0	-	-	-	-	0	-	-	-	0	-	0	-	-	-	-	-	-
WC-DC58N	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TC-DC58	-	-	-	-	-	-	-	-	-	-	0	-	-	-	0	-	-	-
TC-DC58N	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250D 58mm	-	0	-	-	-	-	-	-	-	-	0	-	-	-	0	-	-	-
500D 58mm	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-
250D 52mm	0	-	-	-	-	0	-	-	-	0	-	0	-	-	-	-	-	-
LA-DC58	-	-	-	-	-	-	-	-	-	-	0	-	-	-	0	-	-	-
LA-DC52	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-
LA-DC58N	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LH-DC58	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-
TC-DC52	-	-	-	-	-	0	-	-	-	0	-	0	-	-	-	-	-	-
TC-DC52A	0	-	-	-	-	0	-	-	-	0	-	0	-	-	-	-	-	-
LA-DC52B	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
LA-DC52C	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-
LA-DC52D	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<speed lite=""></speed>																		
220EX	-	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0	-
380EX	-	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	0	-
550EX	-	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	-	-
420EX	-	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	-	-
(MR-14EX)	-	0	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-
(MT-24EX)	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<remote switch=""></remote>	•																	
WL-DC100	-	0	-	-	-	-	-	-	-	-	0	-	-	0	0	-	-	-
RS-8N3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
<cable others=""></cable>																		
VC-100	-	-	-	-	-	-	-	-	-	O(A30)	-	O(A20)	-	-	-	0	0	0
VC-200	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-
AVC-DC100	0	0	0	-	0	0	0	-	0	O(A40)	0	-	-	0	0	-	-	-
AVC-DC200	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
IFC-100PCS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
IFC-100MC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
IFC-200PCS	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	-	-
IFC-200PCU	-		-	-	-	-	-	0	-	-	0	-	0	0	0	0	-	-
IFC-200MC	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	-	-
IFC-300PCU	0	0	0	0	0	0	0	-	0	0	-	0	-	-	-	-	-	-
AD-PC98	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0
DIF-100	0	0	0	0	0	0	0	-	0	0	0	0	-	-	-	-	-	-
DIF-200	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
DIF-B100	0	0	0	0	0	0	0	-	0	0	0	0	-	-	-	-	-	-
DIF-B200	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-

	PS A80	PS G3 PS G5	ID 30	PS A300 PS A200 PS A100	ID 400	PS A70 PS A60	PS S50 PS S45 PS S40 PS S30	I D 320 I D 200a I D 200	I D 300a I D 300	PS A40 PS A30	PS G2	PS A20 PS A10	ixy Digital	PS Pro 90 IS	PS G1	PS S10 PS S20	PS Pro70	PS A5 PS A5Z PS A50
<case></case>												•						
SC-PS100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	0
SC-PS300	-	-	-	-	-	-	-	O(200a/200)	-	-	-	-	0	-	-	-	-	-
SC-PS400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-
SC-PS500	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-
SC-PS600	0	-	-	-	-	0	-	-	-	0	-	0	-	-	-	-	-	-
SC-PS700	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-
SHC-PS200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-
SHC-PS300	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-
SC-PS800	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
SC-PS900	-	-	-	0	-	-	0	-	-	-	-	-	-	-	-	-	-	-
IXC-200A/B	-	-	-	-	0	-	-	O(320)	-	-	-	-	0	-	-	-	-	-
IXC-300A/B	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-
IXC-220A/B/S	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SC-DC10	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<all cas<="" td="" weather=""><td>se / Water</td><td>Proof Ca</td><td>ise></td><td></td><td></td><td></td><td></td><td></td><td>~</td><td></td><td><u></u></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></all>	se / Water	Proof Ca	ise>						~		<u></u>	-						
AW-PS100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(A5)
AW-PS110	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O(A57/A50)
AW-PS200	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-
WP-DC100	_	-	-	-	-	-	-	-	O(300)	-	-	-	-	-	-	-	-	-
WP-DC200	_	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-
WP-DC300	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-
WP-DC200s	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-
WP-DC400	-	-	-	Q(A200/A100)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC500	-	-	-	-	-	-	-	-	O(300a)	-	-	-	-	-	-	-	-	-
WP-DC600	-	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
WP-DC700	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC800	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC10	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WP-DC900	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

5-2 System Diagram



TECHNICAL DESCRIPTION

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1. Functions of each unit

1.1 MAIN PCB ASS'Y

- 1) Driving the CCD Sensor.
- 2) Conversion of the image signal from the analog signal to the digital signal.
- 3) Controlling the power supply and the system by CPU. (Refer to Sections 2.1 and 2.2.)
- 4) Image processing, and reading and writing the image signal to and from the CF card using DSP. (Refer to Section 2.2.2.)
- 5) Amplification of the video and audio output. (Refer to Section 2.2.3.)

1.2 DC/JACK UNIT

- 1) Power supply drive (DC/DC converter).
- 2) Backlight for LCD drive.

1.3 LCD UNIT

1) LCD panel drive and Backlight for LCD drive.

1.4 FLASH UNIT

1) Flash drive and charging circuit for the flash.



Fig. 1

2. Outline of Circuits

2.1 Power Supply Control

The power supply is controlled by the CPU mounted on the main PCB ass'y.

2.1.1 Power Supply Block Diagram



Fig. 2 Power System Block Diagram

2.1.2 Power Control Sequence



2.2 Signal Processing



Fig. 3 Signal System Block Diagram

2.2.1 System Control

The CPU on the main PCB ass'y controls the lens (motor, shutter), operation switch receiver, USB communication and flowing circuits.

- TG: Creation of the CCD drive pulse
- CDS, A/D: CCD signal processing and conversion of the digital data
- LCD Driver: Driving the LCD
- FLASH MEMORY: Firmware memory
- DSP: Picture processing
- RTC: Clock count for watch
- AF Support LED: AF auxiliary, self-timer and red-eye protection also serves as a lamp
- Electric Flash: Flash and charging circuit

2.2.2 Picture Processing

1) The drive pulse of the CCD sensor is created by both clock from DSP and TG that is operated by sync. signal.

The picture signal by the drive pulse is output from CCD sensor.

The output signal of the CCD picture is converted to the signal processing and the digital data by the CDS and A/D converter, and is sent to the DSP.

- 2) The DSP circuit performs the following signal processing.
 - Processes the picture data (using the SDRAM).
 - Writes and reads the picture data to and from the CF card.
 - Outputs analog video signal to the LCD and VIDEO OUT.
- 3) The video signal that is supplied form the DSP is controlled by the LCD driver and is displayed on the LCD panel. The video amplifier is activated when the video jack is inserted to the AV jack and drives the video signal in 75 Ω .

2.2.3 Audio Processing (During record and playback)

- 1) During animation recording.
 - The microphone audio signal is converted to the digital data by CPU and is recorded.
- 2) During playback, the data is converted back to the analog audio signal and is output to the AV jack and speaker from AUDIO/SP anplifier.

3. Troubleshooting

3.1 When an Error Code is Displayed

[Remedy]

- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Try replacing probable faulty parts referring to the below.

[NOTE]

- The error code is displayed on the LCD Monitor.
- Adjustments must be performed after the part has been replaced. For details, see the chapter of "Adjustments".

Error Code	Name	Occurrence Conditions	Cause and Probable Faulty Part
E02	AF	AF processing did not end within the	MAIN PCB ASS'Y
	TIME OUT	specified time.	OPTICAL UNIT
		The focus lens was not driven.	MAIN PCB ASS'Y
			OPTICAL UNIT
E03	EF	Auto Flash Control did not end within the	MAIN PCB ASS'Y
	TIME OUT	specified time.	OPTICAL UNIT
E04	AWB	AWB processing did not end within the	MAIN PCB ASS'Y
	TIME OUT	specified time.	
E09	JPEG DMA	JPEG processing did not end within the	
	TIME OUT	specified time.	
E14	UNKOWN	When unkown error, cause of which is	LINKOWN
		not known, occurs.	
E16	IMAGING TIME	When communication between CPU and	
	OUT	peripheral IC is not completed within the	MAIN PCB ASS'Y
		specified time during recording using	
		EVF or after completion of recording.	
E18	ZOOM LENS	Movement of the lens barrel did not end	MAIN PCB ASS'Y
	ERROR	within the specified time.	OPTICAL UNIT
E23	CF NO SPACE	When the CF becomes full during writing	
		of photographed images to CF, writing is	
		repeatedly performed with the JPEG	
		compression ratio successively increased	
		to reduce the size of the image file until it	MAIN PCB ASS'Y
		can be successfully written to CF.	
		This error occurs when writing of the	
		JPEG image file fails after 10 retries at	
		increasingly higher compression ratios.	
E24	POWER ON	The power of the imaging circuit on the	MAIN PCB ASS'Y
	ERROR	MAIN PCB ASS'Y was not detected.	DC/JACK UNIT
E25	FOCUS PI	Detection of the focus PI (photo-	OPTICAL UNIT
	ERROR	interrupter) failed.	MAIN PCB ASS'Y

TECHNICAL DESCRIPTION

Error Code	Name	Occurrence Conditions	Cause and Probable Faulty Part		
E26	CAPTURE	Writing of the photograph image to			
	TIME OUT	SDRAM did not end within the specified	MAIN PCB ASS'Y		
		time.			
E27	CF WRITE	Free area could not be secured in the			
	TIME OVER	buffer for the photograph image within	CF CARD		
		the specified time in the continuous	MAIN PCB ASS'Y		
		shooting mode.			
E30	POWER OFF	The camera power was turned OFF while	The battery or DC plug was removed		
	ERROR	the image was being recorded to the CF	while the image was being recorded to		
		Card. (The error code is displayed when	the CF Card.		
		the camera is next turned ON.)	\rightarrow Remedy: Restart the camera.		
		* This error may occur after E23.			
E50	CF FORMAT	The CF Card could not be formatted			
	ERROR	properly.			
E51	CF ACCESS	When image data cannot be read from			
	ERROR	CF normally.			
E52	QUICK REVIEW	Review of the photograph image failed.	MAIN PCB ASS'Y		
	ERROR				

3.2 When a Problem Occurs

[Remedy]

- Check for any abnormalities in the mounting of probable faulty parts or connector connections referring to the table below.
- Try replacing probable faulty parts referring to the table below.

[NOTE]

• Adjustments must be performed after the part has been replaced. For details, see the chapter of "Adjustments".

Problem (when an error code is not displayed)	Cause and Probable Faulty Part
The camera does not work.	MAIN PCB ASS'Y
	DC/JACK UNIT
	BATTERY BOX UNIT
The image is not displayed on the LCD Monitor.	MAIN PCB ASS'Y
	LCD UNIT
The photograph image is abnormal.	OPTICAL UNIT
	MAIN PCB ASS'Y
The zoom does not function.	OPTICAL UNIT
	MAIN PCB ASS'Y
	TOP COVER UNIT
	OPERATION MODULE UNIT
The Built-in Flash does not fire.	FLASH UNIT
	DC/JACK UNIT
	MAIN PCB ASS'Y
Video output is strange.	DC/JACK UNIT
	MAIN PCB ASS'Y
Communications with the personal computer is not possible.	DC/JACK UNIT
	MAIN PCB ASS'Y
The CF card or Micro Drives is not recognized.	CF CARD
	CF UNIT
	MAIN PCB ASS'Y
Buttons/The Mode dial do not work.	TOP COVER UNIT
	OPERATION MODULE UNIT
	MAIN PCB ASS'Y
	REAR COVER UNIT

REPAIR INSTRUCTION

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1. Before Starting the Repair Work

Be sure to read the following precaution before starting the repair work.

1.1 Precaution on Flash High Tension Circuit

- After the REAR COVER UNIT is removed, be sure to discharge the main capacitor. (Discharging resistor : $1 \text{ k}\Omega$, approx. 5 W.)
- First contact the GND \bigcirc terminal of the main capacitor with the discharging resistor. Then contact the positive \oplus terminal of the main capacitor.

CAUTION:

Be careful of electric shock because the circuit is the high tension circuit.



Fig. 1 Precaution on flash high tension circuit

1.2 List of Tools

The following tools are used for the re-assembling during service.

(1) List of tools

New	Name of tools	Part No.	Remarks
	Screwdriver (Local Purchase)		
	Tweezers (Local Purchase)		
	Soldering iron (Local Purchase)		

1.3 List of Supplies

The following supplies are used for the re-assembling during service.

(1) List of supplies

New	Name of supplies	Part No.	Remarks
	ADHESIVE TAPE SONY T4000	CY4-6012-000	Double-sided Tape
	DIA BOND No.1663G	CY9-8129-000	
	LOGENEST RAMBDA A-74	CY9-8102-000	
	Solder (Local Purchase)		

1.4 Flexible Connectors

This product uses the five types of the flexible connectors.



- If the connectors of Type C, Type D and Type L, set them to the unlocked state before removing and inserting flexible card. After flexible card is inserted, set them to the locked state.
 The flexible card is inserted, it the helper set them for the set them for the set them to the locked state.
- 2. The flexible card is equipped with the holes as shown. Use them for removal and insertion by inserting the tweezers into them as required.



Fig. 3 Holes for removal

2. Disassembly/Assembly

2.1 Procedure

Disassembling procedure of PowerShot A80 is shown by the following flowchart. Reverse the disassembling procedure to reassemble them. * The pages to refer are shown in parenthesis ().







2.2 TOP COVER UNIT, CF COVER

(1) TOP COVER UNIT

- 1. Open the CF COVER and remove the screw of (a).
- 2. Open the BATTERY COVER UNIT and remove the screw of (a) and the two screws of (b).
- 3. Remove the screw of \bigcirc .
- 4. Disengage the claw and remove the connector, then remove the TOP COVER UNIT.
- (2) CF COVER

1. Remove the CF COVER.

NOTE (Assembling)

Apply the LOGENEST RAMBDA A-74 to the shafts.



Fig. 5 REAR COVER UNIT, JACK COVER

2.3 REAR COVER UNIT, JACK COVER

(1) REAR COVER UNIT

- 1. Remove the screw of O, the screw of O, the screw of O and the screw of O.
- 2. Open the LCD UNIT and the JACK COVER.
- 3. Remove the REAR COVER UNIT.

CAUTION

Never touch the positive (+) terminal of the capacitor.

Be sure to discharge the capacitor using the discharging resistor (about $1k\Omega/5W$).

NOTE (Assembling)

When assembling, check the switch is in the correct position.

(2) JACK COVER

1. Disengage the hooked portion on the backside of the REAR COVER UNIT, and then the JACK COVER.



Fig. 6 SIDE COVER, FRONT COVER SECTION, LENS BARREL SHEET

2.4 SIDE COVER, FRONT COVER SECTION, LENS BARREL SHEET

(1) SIDE COVER

- 1. Open the LCD UNIT slightly and remove the SIDE COVER.
- (2) FRONT COVER SECTION, LENS BARREL SHEET
 - 1. Open the BATTERY COVER UNIT.
 - 2. Remove the screw of (f), the screw of (g), and the screw of (h).
 - 3. Remove the FRONT COVER SECTION.

CAUTION

Half-open the BATTERY COVER UNIT and carefully remove the FRONT COVER SECTION so that the portion A will not hinder removal.

Be careful not to drop the LENS BARREL SHEET.

4. Remove the LENS BARREL SHEET.



Fig. 7 BAYONET CUP UNIT, FRONT COVER UNIT

2.5 BAYONET CUP UNIT, FRONT COVER UNIT

- (1) BAYONET CUP UNIT, FRONT COVER UNIT
 - 1. Rotate the BAYONET CUP UNIT in the direction of the arrow A and separate the BAYONET CUP UNIT from the FRONT COVER UNIT.



Fig. 8 BATTERY COVER SHAFT, BATTERY COVER SPRING, BATTERY COVER UNIT

2.6 BATTERY COVER SHAFT, BATTERY COVER SPRING, BATTERY COVER UNIT

(1) BATTERY COVER SHAFT, BATTERY COVER SPRING, BATTERY COVER UNIT

1. Remove the BATTERY COVER SHAFT by pushing the BATTERY COVER SHAFT with a tweezers or the like.

CAUTION

- Be careful not to drop the BATTERY COVER SPRING.
- 2. Remove the BATTERY COVER UNIT and the BATTERY COVER SPRING.

NOTE (Assembling)

Mount the BATTERY COVER SPRING on the MAIN BODY with the longer foot up. (The foot has a bent-processed part on the top as the mark.)





2.7 HINGE COVER, LCD UNIT

(1) HINGE COVER

- 1. Remove the screw of (\mathbf{j}) .
- 2. Disengage the three claws, then remove the connector cable from the hooked portion A and remove the HINGE COVER.
- (2) LCD UNIT
 - 1. Remove the four screws of (j).
 - 2. Remove the two connector cables.
 - 3. Remove the LCD UNIT.

NOTE (Assembling)

Hitch the connector cable to the hooked portion A and route the cable as shown in the figure.



Fig. 10 LCD REAR COVER, LCD FRONT COVER

2.8 LCD REAR COVER, LCD FRONT COVER

(1) LCD REAR COVER

- 1. Remove the four screws of (k).
- 2. Remove the LCD REAR COVER.

(2) LCD FRONT COVER

- 1. Rotate the HINGE as shown in the figure and remove the two screws of $\widehat{\mathbb{m}}$.
- 2. Remove the LCD NUT PLATE.
- 3. Remove the LCD FRONT COVER.





2.9 FLASH UNIT

(1) FLASH UNIT

- 1. Disconnect the connector.
- 2. Peel back the ST CAUTION LABEL.
- 3. Remove the soldering in two places, then remove the two lead wires (red and black).

NOTE (Assembling)

Apply the DIA BOND 1663G after soldering.

- 4. Remove the screw of \bigcirc .
- 5. Remove the FLASH UNIT.





2.10 OPERATION MODULE UNIT

(1) OPERATION MODULE UNIT

- 1. Remove the screw of (b).
- 2. Disengage the eight dowels.
- 3. Slightly move the portion A upward and disengage the dowel, then pull the switch block out of the MAIN BODY.
- 4. Hook the bent wire to the both sides of the connector to release the lock as shown in the figure.
- 5. Remove the OPERAION MODULE UNIT.

NOTE (Assembling)

Secure the top portion with the double-sided adhesive tape (6mm x 6mm)



Fig. 13 CF UNIT, MAIN-FLASH FPC

2.11 CF UNIT, MAIN-FLASH FPC

(1) CF UNIT

- 1. Remove the screw of $(\underline{9})$, the two screws of $(\underline{1})$, and the screw of $(\underline{9})$.
- 2. Disconnect the connector.
- 3. Remove the CF UNIT.
- (2) MAIN-FLASH FPC
 - 1. Remove the MAIN FLASH FPC.



Fig. 14 FLASH UNIT

2.12 FLASH UNIT

- (1) FINDER UNIT
 - 1. Remove the two screws of \bigcirc .
 - 2. Remove the FINDER UNIT.

NOTE (Assembling)

Confirm that the LENS A is pushed in the very end of the direction A and LENS B is pushed in the very end of the direction B as shown in figure, and install the FINDER UNIT in the barrel that has been moved in the retracted position.



Fig. 15 MAIN-LCD MODULE UNIT, SUB FRAME

2.13 MAIN-LCD MODULE UNIT, SUB FRAME

(1) MAIN-LCD MODULE UNIT

1. Remove the MAIN-LCD MODULE UNIT by disconnecting the connector and by peeling off the adhesion part from the SUB FRAME TAPE.

NOTE (Assembling)

Attach the SUB FRAME TAPE to the position as shown in the figure, and install the MAIN-LCD MOUDULE UNIT by setting it under the two lead wires.

(2) SUB FRAME

- 1. Remove the screw of (b).
- 2. Disengage the two dowels and remove the SUB FRAME.



Fig. 16 MICRPHONE UNIT, MICROPHONE BUSH

2.14 MICRPHONE UNIT, MICROPHONE BUSH

(1) MICRPHONE UNIT, MICROPHONE BUSH

- 1. Disconnect the connector.
- 2. Disconnect the connector.
- 3. Remove the MICORPHONE UNIT and MICROPHONE BUSH together as an assembled unit.
- 4. Separate the MICROPHONE BUSH from the MICROPHONE UNIT.



Fig. 17 LITHIUM (2ND) BATTERY, MAIN PCB SECTION

2.15 LITHIUM (2ND) BATTERY, MAIN PCB SECTION

- (1) LITHIUM (2ND) BATTERY
 - 1. Remove the LITHIUM (2ND) BATTERY.

NOTE (Assembling)

Be careful not to make mistake about + and - direction.

- (2) MAIN PCB SECTION
 - 1. Disconnect the connector and remove the screw of (b).
 - 2. Disengage the dowel and the two hooked portions.
 - 3. Disconnect the connector.
 - 4. Remove the MAIN PCB SECTION.



Fig. 18 MAIN A SHIELD UNIT, MAIN B SHIELD UNIT, MAIN PCB ASS'Y

2.16 MAIN A SHIELD UNIT, MAIN B SHIELD UNIT, MAIN PCB ASS'Y

(1) MAIN A SHIELD UNIT, MAIN B SHIELD UNIT, MAIN PCB ASS'Y

- 1. Remove the soldering in two places and remove the MAIN A SHIELD UNIT.
- 2. Remove the soldering in two places and separate the MAIN B SHIELD UNIT from the MAIN PCB ASS'Y.



Fig. 19 OPTICAL UNIT

2.17 OPTICAL UNIT

(1) OPTICAL UNIT

- 1. Remove the three screws of (b).
- 2. Remove the OPTICAL UNIT.



Fig. 20 FRONT CAP SECTION, BARRIER PLATE

2.18 FRONT CAP SECTION, BARRIER PLATE

(1) FRONT CAP SECTION

- 1. Apply the voltage (DC 2.5V) across the motor terminal to drive the motor until the motor stops and the barrel fully comes out.
- 2. Insert a tweezers inside of the FRONT CAP SECTION as shown in the figure to disengage the two claws and two portions adhered with DIA BOND and remove the FRONT CAP SECTION.

CAUTION

Be careful not to drop the BARRIER PLATES.

NOTE (Assembling)

Apply the DIA BOND No. 1663G to the positions as shown in the figure.

(2) BARRIER PLATE

1. Remove the two BARRIER PLATES.



Fig. 21 FRONT CAP, BARRIER COVER

2.19 FRONT CAP, BARRIER COVER

- (1) FRONT CAP, BARRIER COVER
 - 1. Separate the FRONT CAP from the BARRIER COVER that are attached each other by the FRONT CAP TAPE.


Fig. 22 BARRIER BASE

2.20 BARRIER BASE

(1) BARRIER BASE

1. Rotate the BARRIER BASE in the direction of the arrow A and remove it.

NOTE (Assembling)

Install the BARRIER BASE to the OPTICAL UNIT while aligning the arrow mark on the BARRIER BASE with the upper part of the OPTICAL UNIT.



Fig. 23 BARRIER DRIVE PLATE, BARRIER DRIVE RING

2.21 BARRIER DRIVE PLATE, BARRIER DRIVE RING

- (1) BARRIER DRIVE PLATE, BARRIER DRIVE RING
 - 1. Remove the BARRIER DRIVE PLATE and the BARRIER DRIVE RING as an assembled unit by rotating them in the direction of the arrow A and by disengaging the hook and the claw.
 - 2. Remove the BARRIER OPEN SPRING and the BARRIER CLOSE SPRING.
 - 3. Rotate the BARRIER DRIVE PLATE in the direction of the arrow B, then separate it from the BARRIER DRIVE RING.



Fig. 24 MAIN-DC FPC, DC/JACK UNIT

2.22 MAIN-DC FPC, DC/JACK UNIT

- (1) MAIN-DC FPC, DC/JACK UNIT
 - 1. Remove the MAIN-DC FPC.
 - 2. Remove the soldering in two places, and remove the two lead wires (red and black) that are from the BATTERY BOX UNIT.

NOTE (Assembling)

- Apply the DIA BOND 1663G after soldering.
- 3. Remove the three screws of (b).
- 4. Remove the DC/JACK UNIT.



Fig. 25 BATTERY BOX UNIT, MAIN FRAME UNIT

2.23 BATTERY BOX UNIT, MAIN FRAME UNIT

(1) BATTERY BOX UNIT, MAIN FRAME UNIT

1. Remove the two lead wires (red and black) from the two grooves.

NOTE (Assembling)

Route the lead wires (red and black) as shown in the figure.

- 2. Remove the two screws of (\mathfrak{g}) .
- 3. Disengage the dowel, while pushing the portion A downward with a stick or the like. Then separate the MAIN FRAME UNIT by sliding the BATTERY BOX UNIT in the direction of the arrow B.

2.24 Screw List



3. Adjustments

3.1 Replacement Parts and Adjustment Items

PowerShot A80 requires electrical adjustments when certain parts are replaced. The table below indicates the adjustments required for the respective part replacements. For all other parts not listed below, no electrical adjustments are necessary after replacement.

Adjustment Items Replacement Part	CCD Adjustment	Optical Unit Adjustment	Imaging Process Adjustment	Color Adjustment	Pixel Dot Adjustment	LCD Adjustment	Flash Adjustment
BATTERY BOX UNIT							
DC/JACK UNIT							
OPTICAL UNIT	#1	● #2	#3	• #4	• #5		• #6
FLASH UNIT							
MAIN PCB ASS'Y	0	0	0	0	0	0	0
LCD UNIT							

: Adjustment is necessary after replacement.

: Adjustment is necessary after replacement.



after the part is replaced.)

 \bigcirc Blank : Adjustment is unnecessary.

*OPTICAL UNIT is replaced, adjust certainly at the procedure as below.

- #1. CCD Adjustment
- #2. Optical Unit Adjustment
- #3. Imaging Process Adjustment
- #4. Color Adjustment
- #5. Pixel Dot Adjustment
- #6. Flash Adjustment

3.2 Adjustment Tools

The following tools are required for electrical adjustment.

DESCRIPTION	PARTS NO.	REMARKS
PC/AT-Compatible Machine (Windows2000 or 98 pre-installed Model, USB port)	—	Local purchase
SERVICE MANUAL (CD-ROM)	CY8-4388-031	
ADJUSTMENT SOFTWARE	—	Download
Compact Power Adapter CA-PS500	—	Enclosed in "AC Adapter Kit ACK600"
AC Cable	_	Enclosed in "AC Adapter Kit ACK600"
INTERFACE CABLE IFC-300PCU		(or Local purchase)
Brightness Box (light source A)		(Verified with EF-5000)
Color Viewer (5600° K)	DY9-2039-100	
Color Bar Chart	DY9-2002-000	
18% Gray Chart	CY4-6016-000	
Auto Focus Chart	_	Attached to "SERVICE MANUAL (CD-ROM)" 2 types "2
W-10 Filter *1	CY9-1556-000	
C-12 Filter	CY9-1555-000	
FL-W Filter	CY9-1557-000	
ND-2 Filter	CY9-1552-000	
ND-4 Filter	CY9-1553-000	
ND-8 Filter	CY9-1554-000	
Light-Shielding Cloth (500 \times 500 or larger)		Local purchase
Tripod	—	Local purchase
Reference Camera	—	Merchandise
DIGITAL CAMERA SolutionDisk	—	Enclosed in Merchandise

*1 2pcs. required.
 *2 The file containing "How to print out" and Chart for print-out is in the Service Manual APPENDIX.

3.3 Before Starting Electrical Adjustments

3.3.1 TWAIN Driver Installation

Install the USB Driver for Adjustment in the CD-ROM to PC. ("This Adjustment Software" is impossible when the RS-232C TWAIN driver is used.)

3.3.2 Factory Mode Driver Installation

After downloading and extracting Factory Mode Driver, double-click Setup.exe (\Factory Mode Driver\Win 2000_98\Setup.exe) to install it.

If InstallShield Wizard appears as shown in the first picture below, install the TWAIN (Factory Mode) Driver by following the instructions.

1	Canon Camera TWAIN Driver		×	
		Canon Camera TWAIN Driver InstallShield ???????????? ??????????Canon Camera TWAIN)	The InstallShield Wizard will install TWAIN Driver on your computer.
	1	Drive:7333333333		
		< ??[B] ??[N>	33333	— Click the "??[N]>" button.

2	Canon Camera TWAIN Driver 🗶 ??????) ?????????????????????????????	License Agreement
	???????????Page Down ??????????	See the file "Service Manual/English/Ch6/
	Plato OIÉIKI ("ICIÝI")*	License.pdf [*] for the contents of the License.
	I@:IUSIÑII(AIXIDII)=IIIAPIMIIELXIXI-1 IPPRETPT1CU-18 I@:IUSIÑI(AIXIDII)=IIIAPIMIIELXIXI-1 IPPRETPT1CU-18 I@:IUSIÑI(AIXIDII)=IIIAPIMIIELXIXI-1 IPPRETPT2 Ion III STAT IPPRETPT2 Ion III STATUS IPPRETPT2 Ion III STATUS IPPRETPT2 IIII STATUS IPPRETPT2 IIII STATUS <td>Click the "??[Y]" button.</td>	Click the "??[Y]" button.





5	Canon Camera TWAIN Driver	
	Canon Camera TWAIN Driver ????????????????? PC????????? ??????????	——————————————————————————————————————
	<u> </u>	Installing TWAIN (Factory Mode) Driver is completed.

If you cannot install Factory Mode Driver in above procedure, install it in the following procedure.

- 1. Change the camera to Factory mode.
- 2. Install Wizard of new hardware starts up.
- 3. Select the option that directly chooses the driver's place.
- Choose CAP_FACT.INF (Factory Mode Driver\Win2000_98\Win_2k98\CAP_FACT.INF).
- 5. Installment starts. When the Wizard finishes, the installment finishes.

3.3.3 Adjustment Software Installation

- 1. After downloading and extracting Adjustment Software, double-click Setup.exe to install it. (Adjustment Softwares are different according to the model of camera that you are going to adjust.)
- 2. When the dialog box below appears, click the "OK" button.

2	😴 Canon PowerShot A80 Adjustment Software Setup 🛛 🔀					
	Welcome to the Canon PowerShot A80 Adjustment Software installation program. Setup cannot install system files or update shared files if they are in use. Before proceeding, we recommend that you close any applications you may be running.					
-	OK E <u>x</u> it Setup					

3. When the dialog box below appears, click the button. (Software installation will then begin.)

🛃 Canon PowerShot A80 Adju	stment Software Setup	×		
Begin the installation by clicking the button below.				
Click this button to install "Canon PowerShot A80 Adjustment Software" to the specified destination directory.				
- Directory:				
	E <u>x</u> it Setup			

4. When the dialog box below appears, click the "Continue" button. (In the case that you do not add a shortcut on desktop, remove clicking from the check box.)

🔄 Canon PowerShot A80 Adjustment Software – Option choi 🗙					
Please choose from the following installation options.					
Add a desktop shortcut.					
<u>Cancel</u>					

3.3.4 Preparation

Before starting up the Adjustment Software, follow the preparatory steps below:

- 1. Obtain all the tools necessary for the adjustment.
- 2. For the LCD Adjustment, jot down the data written on the PCB ASS'Y inside the LCD Unit. You will need it later.



- 3 Connect the Camera to the Power Source with the Compact Power Adapter CA-PS500 and AC Cable.
- 4. Set the Replay Mode on the camera and turn on.



5. Connect the Camera's Digital terminal to the PC's USB Port with INTERFACE CABLE IFC-300 PCU. **Note:** Perform the preparation in the following order otherwise the camera won't work properly.

3.3.5 Starting up the Adjustment Software

After completing the preparatory steps, click Start and move the cursor to Program; then select Canon Digital Camera and click PowerShot A80 Adjustment.

3.3.6 Menu Window

When the Adjustment Software starts up, the Menu Window below will appear.

Canon PowerShot A80 Adjustment Menu Canon Adjustr PowerShot A80	nent Software
Message	- Adjustment Menu
This adjustment coffuers is evaluate	CCD
for the Canon PowerShot A80	Optical Unit
	Imaging Process
Do not use for other systems.	Color
	Pixel Dot
* Please perform adjustment after	LCD
adjustment click the [USER Mode]	Flash
button before exiting the adjustment	Calibration
software.	Calibration
	-Data Transfer
Mode Change	Save
Exit FA Mode USER Mode	Load
ver 1.00	Copyright (C) 2003 Canon Inc.

3.3.7 How to Use the Adjustment Software

Mode change

This camera uses normally PTP for communication with PC. Because calibration and adjustment become impossible depending on the condition of PTP, select the TWAIN mode of the PTP before starting calibration and adjustment.

- "FA Mode" button: This button is used to change the mode from the USER mode to the FA mode. (PTP to TWAIN)
- * Before starting calibration and adjustment, be sure to set the FA mode.
- "USER Mode" button: This button is used to change the mode from the FA mode to the USER mode. (TWAIN to PTP)
- * When calibration and adjustment are completed, be sure to change the mode to the USER mode before quitting the software.
- Calibration/Adjustment
 - For starting, click the button related with calibration/adjustment.
 - * Whenever you use your light source for the adjustment for the first time, be sure to click the "Calibration" Button.
- Quitting the Adjustment Software
- Click the "Exit" button.
- Saving or Loading data
 - "Save" button : This button saves all adjustment data stored on the camera in text format.
 - "Load" button : This button loads all adjustment data saved in text format to the camera.
- Notes
 - If the adjustment fails, a message indicating the failure will appear on each product. If this happens, do the adjustment again.
 - The Adjustment Software is dedicated only to Canon Digital Camera PowerShot A80. Never use it for any other camera.
 - The Windows2000 or 98 must be pre-installed on the computer that is equipped with the USB terminal.
 - * Operations on the other Operating Systems such as Windows95, Windows XP and others are not guaranteed. (Because Windows95 does not support USB.)

3.4 Calibration

3.4.1 Calibration

■ Tools Used

• AC Cable

- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Color Bar Chart
- Compact Power Adapter CA-PS500 W-10 Filter (2pcs.)
 - C-12 Filter
- INTERFACE CABLE IFC-300PCU
 - FL-W Filter

• Color Viewer (5600° K)

- Brightness Box (light source A) ND-2 Filter
 - ND-4 Filter
 - ND-8 Filter
 - Reference Camera (Merchandise)
 - DIGITAL CAMERA Solution Disk
- Click the "Calibration" button. 1 _ 🗆 🗙 Canon Po **Adjustment Software** Canon PowerShot A80 Message Adjustment Menu CCD This adjustment software is exclusive Optical Unit for the "Canon PowerShot A80" Imaging Process Do not use for other systems. Color Pixel Dot * Please perform adjustment after LCD clicking the [FA Mode] button. After the Flash adjustment, click the [USER Mode] button before exiting the adjustment Calibration software Calibration -Data Transfer Mode Change Save FA Mode USER Mode Exit Load ver 1.00 Copyright (C) 2003 Canon Inc 2 1. When the message on the right appears, check that the reference camera (Merchandise) is connected to the computer. 2. Click the "OK" button. werShotA80 Adjustment х Click the [OK] button after connecting the Service Standard Camera **i**) for calibration ÖK Cancel Canon PowerShot A80 _ 🗆 🗙 3 When the message on the right appears, go to 4. Calibration Canon PowerShot A80 Message EV12 Calibration ٠ Place the camera to the Brightness Box EV15 Calibration Daylight Calibration Set the Brghtness box to EV12 and C-Г Tungstain Calibration 12 Filter between the lens. (K=12.5) -**Cloudy Calibration** Reference Image Shooting Click the [Check]button to confirm the Light Source [Brightness] light source, and to continue the next **EV12** calibration. + - 1 Click the[NEXT] button -0 CANCEL Check -NEXT



8	When the message on the right appears go to 9.	Calibration Calibration Calibration Calibration Calibration Calibration Calibration EV12 Calibration EV12 Calibration EV15 Calibration EV15 Calibration Coudy Calibration Cloudy Calibration Reference Image Shooting CANCEL ADJUST
9	 Remove the ND-2 Filter. Attach the two W-10 Filters between the Lens and the Color Viewer. Place the camera so that the lens is set against the center part of the Color Viewer. Click the "ADJUST" button. 	Color Viewer CAMERA BODY Power Source Source Stand
10	When the message on the right appears go to 11.	Canon PowerShot A90 Calibration Calibration Calibration Calibration Message Item Set C-12 Filter and FL-W Filter V EV12 Calibration between the lens. V EV12 Calibration Click the [ADJUST] button. Cloudy Calibration Reference Image Shooting
		CANCEL ADJUST



16	When the message on the right appears, click the "FINISH" button.	BCanon PowerShot A80 Calibration CallOII PowerShot A80		Calibration
	(This ends the "Calibration".)	Message The calibration is completed. Click the [FINISH] button. CANCEL FINISH	Y	Item EV12 Calibration EV15 Calibration Tungstain Calibration Cloudy Calibration Reference Image Shooting

3.5 Adjustment Procedure

3.5.1 CCD Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable

- INTERFACE CABLE IFC-300PCU
- Brightness Box (light source A)
- C-12 Filter
- DIGITAL CAMERA Solution Disk

1	Click the "CCD" button.	Calibration Copyright (c) 2003 Canon Inc.
2	When the message on the right appears, go to 3.	Canon PowerShot A80 CCD Adjustment
3	 Place the camera so that lens is set against the light source surface of the Brightness Box via the C-12 Filter. Set the Brightness Box to EV12. Click the "ADJUST" button. * When the adjustment does not work, click the "Default" button. 	C-12 Filter Box CAMERA BODY Power Source Computer

4	When the message on the right appears, Set the Brightness Box to EV15 while setting the C-12 Filter between the lens. Click the "ADJUST" button.	Canon RowerShot A90 CCD Adjustment
5	When the message on the right appears, click the "FINISH" button. (This ends the "CCD" Adjustment.)	Canon RowerShot A90 CCD Adjustment

3.5.2 Optical Unit Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable

- INTERFACE CABLE IFC-300PCU
- Auto Focus Chart (2 types)
- Tripod
- DIGITAL CAMERA Solution Disk

1	Click the "Optical Unit" button.	Canon PowerShot A80 Adjustment Meru ConverShot A80 Message This adjustment software is exclusive for the "Canon PowerShot A80". Do not use for other systems. * Please perform adjustment after clicking the [FA Mode] button After the adjustment, click the [USER Mode] button before exiting the adjustment software. Mode Change Exit FA Mode USER Mode Ver 1.00
2	When the message on the right appears, go to 3.	Canon FowerShot A80 Optical Unit Adjustment Concernent Age Message Me
3	 Place the Auto Focus Chart (1) at 52.0cm away from the front of the camera finder. * Place the Auto Foucs Chart (1) on a plain color wall or equivalent. * Adjust the light so that the brightness of the chart will be about EV9.0. The ray of the light should come in at a narrow angle as seen from the chart. Adjust the position of the camera finely so that the center of the Auto Focus Chart is aligned with the center of the LCD. Click the "ADJUST" button. 	Auto Focus Chart (1) 52.0cm Fower Source CAMERA BODY Tripod

4	When the message on the right appears, go to 5.	Canon PowerShot A80 Optical Unit Adjustment Canon PowerShot A80 Message Set the AutoFocus Chart(2) at 127.5cm from front of the finder. Set the position so that the center of chart is displayed in the middle of LCD. Click the [ADJUST] button. If you cannot adjust Zoom,Click the [Default] button. PASS CANCEL ADJUST
5	 Place the Auto Focus Chart (2) at 127.5cm away from the front of the camera finder. * Place the Auto Focus Chart on a plain color wall or equivalent. * Adjust the light so that the brightness of the chart will be about EV9.0. The ray of the light should come in at a narrow angle as seen from the chart. Adjust the position of the camera finely so that the center of the Auto Focus Chart is aligned with the center of the LCD. Click the "ADJUST" button. 	Auto Focus Chart (2) About 15 Lighting degrees 127.5cm Power Source CAMERA BODY Tripod
6	When the message on the right appears, click the "FINISH" button. (This ends the "Optical Unit" Adjustment.)	CANCEL

3.5.3 Imaging Process Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable
- INTERFACE CABLE IFC-300PCU

- Color Viewer (5600° K)
- W-10 Filter (2 pcs.)
- C-12 Filter
- FL-W Filter
- ND-2 Filter
- DIGITAL CAMERA Solution Disk

1	Click the "Imaging Process" button.	Canon FowerShot A80 Adjustment Menu Canon BowerShot A80 Message This adjustment software is exclusive for the Canon PowerShot A80". Do not use for other systems. * Please perform adjustment after clicking the [FA Mode] button After the adjustment, click the [USER Mode] button before exiting the adjustment software. Mode Change Exit FA Mode USER Mode Load Copyright (C) 2003 Canon Inc.
2	When the message on the right appears, go to 3.	CANCEL
3	 Attach the ND-2 Filters between the Lens and the Color Viewer. Place the camera so that the lens is set against the center part of the Color Viewer. Click the "ADJUST" button. 	ND-2 Filter CAMERA BODY Power Source Source Stand

4	When the message on the right appears, go to 5.	Cancel
5	 Remove the ND-2 Filter. Attach the two W-10 Filters between the Lens and the Color Viewer. Place the camera so that the lens is set against the center part of the Color Viewer. Click the "ADJUST" button. 	Color Viewer CAMERA BODY Power Source Stand Computer
6	When the message on the right appears, go to 7.	Cancel
7	 Remove the W-10 Filters. Attach the C-12 and FL-W Filter between the Lens and the Color Viewer. Place the camera so that the lens is set against the center part of the Color Viewer. Click the "ADJUST" button. 	C-12 Filter Color Viewer CAMERA BODY Power Source Stand Computer

8	When the message on the right appears, click the "FINISH" button.	Canon PowerShot A80 Imaging Process Adjustment
	(This clus up Thiaging Trocess Adjustinent.)	Message Item The adjustment is completed. Ife WB Adjustment (Daylight) Click the [FINISH] button to update the adjustment data(F-ROM) of the camera. WB Adjustment (Cloudy) Click the [FINISH] CANCEL FINISH FINISH

3.5.4 Color Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable

- INTERFACE CABLE IFC-300PCU
- Color Viewer (5600° K)
- Color Bar Chart
- ND-4 Filter
- DIGITAL CAMERA Solution Disk

1	Click the "Color" button.	Canon PowerShot A80 Adjustment Meru CANON PowerShot A800 Message This adjustment software is exclusive for the "Canon PowerShot A80". Do not use for other systems. * Please perform adjustment after clicking the [FA Mode] button After the adjustment, click the [USER Mode] button before exiting the adjustment software. Mode Change Exit Yer 1.00 Calibration Calibration Calibration Calibration Calibration Calibration Copyright (C) 2003 Canon Inc.
2	When the message on the right appears, go to 3.	Canon RowerShot A80 Color Adjustment
3	 Attach the Color Bar Chart to the Color Viewer. Place the camera so that the Viewing image of the color bar chart is the full of LCD with the ND-4 Filter attached. Click the "ADJUST" button. 	Color Bar Chart ND-4 Filter CAMERA BODY Personal Computer Stand



3.5.5 Pixel Dot Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable

- INTERFACE CABLE IFC-300PCU
- Brightness Box (Light source A)
- C-12 Filter
- Light-Shielding Cloth (500×500 mm or larger)
- DIGITAL CAMERA Solution Disk

1	Click the "Pixel Dot" button.	Canon PowerShot A80 Adjustment Meru Canon PowerShot A80 Message This adjustment software is exclusive for the Canon PowerShot A80". Do not use for other systems. * Please perform adjustment after clicking the [FA Mode] button. After the adjustment, click the [USER Mode] button before exiting the adjustment software. Mode Change Exit FA Mode USER Mode Copyright (C) 2003 Canon Inc.
2	When the message on the right appears, go to 3.	Canon FowerShot A80 Pixel Dot Adjustment Pixel Dot Pixel Dot Pixel Dot Pixel Dot Pixel Dot Pixel Dot Pixel Dot Pixel Dot Pixel Dot Pixel Dot Miter Dot Adjustment White Dot Adjustment White Dot Adjustment Cancel ADJUST
3	 Place the camera so that lens is set against the light source surface of the Brightness Box via the C-12 Filter. Set the Brightness Box to EV12. Click the "ADJUST" button. 	C-12 Filter Brightness Box CAMERA BODY Power Source

4	 When the message on the right appears, cover the camera with the Light-Shielding Cloth so that the no light reasons the CCD. Click the "ADJUST" button. 	Cancel
5	When the message on the right appears, click the "FINISH" button. (This ends the "Pixel Dot" Adjustment.)	Cancel

3.5.6 LCD Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable
- INTERFACE CABLE IFC-300PCU
- Reference Camera (Merchandise)
- DIGITAL CAMERA SolutionDisk

Preparation

Г

- 1. Insert the blank CF Card into the reference camera.
- 2. Connect the reference camera with the PC.
- 3. Add the "Gray.jpeg" image to the CF card of the reference camera using Zoom Browser EX. (Gray.jpg is in the folder of Adjustment Software downloaded.)
- 4. Finish the ZoomBrowser EX.
- 5. Disconnect the reference camera from the PC, and display the "Gray.jpg" image in PLAY mode.

1	Click the "LCD" button.	Canon PowerShot A80 Adjustment Meru Canon Adjustment Software PowerShot A80 Messare
		This adjustment software is exclusive for the "Canon PowerShot A80". Adjustment Menu CCD Do not use for other systems. Color * Please perform adjustment after clicking the [FA Mode] button. After the adjustment, click the [USER Mode] Pixel Dot button before exiting the adjustment software. Color Exit FA Mode USER Mode ver 1.00 Copyright (C) 2003 Canon Inc.
2	 When the message on the right appears, enter in the text boxes the data written on the data- sheet attached on the PCB ASS'Y inside the LCD UNIT. Click the "Update" button. Compare the image with that of the reference camera. If it has a different color tint. adjust it by repeating clicking the Yellow/Blue button and the "Update" button alternately. Click the "FINISH" button. (This ends the "LCD" Adjustment.) 	Canon PowerShot A90 LCD Adjustment Image: Constraint of the constraint

3.5.7 Flash Adjustment

- Tools Used
- Personal Computer
- SERVICE MANUAL (CD-ROM)
- ADJUSTMENT SOFTWARE
- Compact Power Adapter CA-PS500
- AC Cable

- INTERFACE CABLE IFC-300PCU
- 18% Gray Chart
- Tripod
- DIGITAL CAMERA Solution Disk

1	Click the "Flash" button.	Canon PowerShot A80 Adjustment Menu Image: Comparison of the comparison
2	When the message on the right appears, go to 3.	Cancel
3	 Set 18% Gray Chart 60.0cm from the Finder front. Make the room as dark as a darkroom. Click the "ADJUST" button. 	18% Gray Chart 60.0cm Power Source CAMERA BODY Tripod



3.5.8 Checking of sound recording/output

It is not required to adjust the recording/output (volume, etc.) of sound. Check the camera if the sound is recorded/play-backed properly.

PARTS CATALOG

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—————————————————————————————————————							
	12.1						
A: 使用頻度	高						
B: 使用頻度	中						
C: 使用頻度	低						
D: 安全規格部	品						
E: 消耗部品							
F: 標準ネジ、	ワッシャー						
S: 供給制限品							
Y: サービスエ	具						

Category of CLASS A: Frequency of use: High B: Frequency of use: Middle C: Frequency of use: Low D: Safety-related critical parts E: Consumable parts F: Standard screws and washers S: Supply of the parts is limited

Y: Service Tools

CAUTION

▲ がついている部品は安全上重要な部品です。交換時は、必ず指定の部品を使用してください。
 Especially critical parts in the power circuit block should not be replaced with other marks.
 Critical parts are marked with ▲ in this parts list

Casing Parts



PARTS LIST

SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	CM1-2215-000	В	1	FRONT COVER UNIT	
2	CD3-1424-000	В	1	COVER, CF	
3	CM1-2217-000	В	1	TOP COVER UNIT	
4	CM1-2216-000	В	1	REAR COVER UNIT	
5	CD3-1425-000	В	1	COVER, HOLE	
6	CD3-1304-000	В	1	COVER, JACK	
7	CY1-6297-000	В	1	PLATE, BODY NUMBER (J)	#13111xxxxx
	CY1-6298-000	В	1	PLATE, BODY NUMBER (N)	#13211xxxxx
	CY1-6299-000	В	1	PLATE, BODY NUMBER (E)	#13311xxxxx
	CY1-6310-000	В	1	PLATE, BODY NUMBER (J), CHINA	#13161xxxxx
	CY1-6311-000	В	1	PLATE, BODY NUMBER (N), CHINA	#13261xxxxx
	CY1-6312-000	В	1	PLATE, BODY NUMBER (E), CHINA	#13361xxxxx
8	CD3-1423-000	В	1	COVER, SIDE	
9	CD3-1204-000	С	1	SHEET, LENS BARREL	
10	CM1-2299-000	В	1	BAYONET CUP UNIT	
11	XA1-7170-257	F	1	SCREW	
12	CD3-1441-000	В	2	SCREW	
13	XA4-9170-357	F	1	SCREW	
14	XA4-9170-707	F	2	SCREW	
15	XA4-9170-407	F	2	SCREW	
16	CD3-1444-000	В	1	SCREW	
17	CD3-1445-000	В	1	SCREW	
18	CD3-1440-000	В	2	SCREW	


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PARTS LIST

SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	CM1-2218-000	B	1	BATTERY COVER LINIT	
2	CD3-1347-000	C	1	SPRING, BATTERY COVER	
3	CD3-1348-000	C	1	SHAFT, BATTERY COVER	
4	CM1-2214-000	B	1	FLASH UNIT	
5	CM1-2220-000	С	1	CF UNIT	
6	CM1-2201-000	С	1	OPERATION MODULE UNIT	
7	CD3-1399-000	В	1	COVER, HINGE	
8	CM1-2222-000	В	1	LCD UNIT	
	CM1-2222-001	В	1	LCD UNIT (SELECTION)	
9	CD3-1380-000	В	1	COVER, LCD FRONT	
10	CD3-1381-000	В	1	COVER, LCD REAR	
11	XA1-7170-357	F	3	SCREW	
12	XA4-9170-357	F	1	SCREW	
13	XA1-7170-257	F	1	SCREW	
14	CD3-1443-000	В	1	SCREW	
15	CD3-1400-000	С	4	SCREW	
16	CD3-1442-000	В	4	SCREW	
17	CD3-1446-000	С	2	SCREW	
18	CD3-1447-000	С	1	SCREW	



SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	CD3-1430-000	С	1	TAPE, SUB FRAME	
2	CD3-1422-000	С	1	FRAME, SUB	
3	CM1-2298-000	С	1	MAIN FRAME UNIT	
4	CD3-1377-000	С	1	BUSH, MICROPHONE	
5	CM1-2213-000	С	1	MICROPHONE UNIT	
6	CM1-2120-000	С	1	FINDER UNIT	
7	CM1-2228-000	С	1	SHIELD UNIT, MAIN A	
8	CM1-2194-000	С	1	PCB ASS'Y, MAIN	
9	CM1-2229-000	С	1	SHIELD UNIT, MAIN B	
10	CK2-2081-000	С	1	FPC, MAIN-FLASH	
11	WK1-5140-000	С	1	BATTERY, LITHIUM (2ND)	
12	CM1-2204-000	С	1	MAIN-LCD MODULE UNIT	
13	CM1-2219-000	С	1	BATTERY BOX UNIT	
14	CK1-1062-000	С	1	FPC, MAIN-DC	
15	CM1-2196-000	С	1	DC/JACK UNIT	
16	XA4-9170-357	F	2	SCREW	
17	XA1-7170-257	F	8	SCREW	
18	XA4-9140-407	F	2	SCREW	

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Optical Unit



SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	CD3-1198-000	В	1	CAP, FRONT	
2	CD3-1214-000	С	1	TAPE, FRONT CAP	SIZE(015)
3	CD3-1180-000	В	1	COVER, BARRIER	
4	CD3-1179-000	В	2	PLATE, BARRIER	
5	CD3-1178-000	С	1	BASE, BARRIER	
6	CD3-1177-000	С	1	PLATE, BARRIER DRIVE	
7	CD3-1206-000	С	1	SPRING, BARRIER CLOSE	
8	CD3-1205-000	С	1	SPRING, BARRIER OPEN	
9	CD3-1176-000	С	1	RING, BARRIER DRIVE	
10	CM1-2119-000	С	1	OPTICAL UNIT	



Pg5

PARTS LIST

SYMBOL PARTS NO. CLASS QTY

DESCRIPTION

REMARKS

⚠ 1 CY4-6076-000 D 1 FUSE, MATSU.DENKI UNHS205

Accessories-1



SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	C84-1060-000	В	1	WRIST STRAP WS-200	
2	D82-0641-000	С	1	AC CABLE (J)	FOR JAPAN
	WT3-5063-000	С	1	AC CABLE (N)	FOR USA/CANADA
	D82-0643-000	С	1	AC CABLE (E)	FOR EUROPE/ASIA
	D82-0644-000	С	1	AC CABLE (B)	FOR ASIA
	D82-0645-000	С	1	AC CABLE (A)	FOR AUSTRALIA
3	FC2-9610-000	В	1	CASE, CF	

Accessories-2



N.S : N.S Stand for No Stock (Product available)

SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	CY1-6171-000	С	1	BUCKLE ASS'Y	
2	CY1-6203-000	С	1	SHAFT, BUCKLE	
3	CY1-6168-000	С	10	E RING	
4	CY1-6169-000	С	5	CAP, BUTTON	
5	CY1-6252-000	С	10	O RING	
6	CY1-6167-000	С	10	SPRING, COIL	
7	CY1-6303-000	С	1	HOLDER, DEFUSION PLATE	
8	CY1-6304-000	С	1	PROTECTOR, DEFUSION PLATE	
9	CY6-3210-000	С	3	SCREW	
10	CY6-3211-000	С	2	SCREW	
11	CY1-6300-000	С	1	SHEET	FOR JAPAN
12	CY1-6099-000	В	1	STRAP, NECK	
13	CY1-6174-000	В	1	STRAP, WRIST	
14	CY1-6272-000	В	1	PACKING, RUBBER	
15	DY9-3029-000	С	1	GREASE PACKING	
16	CY1-6302-000	В	1	DIFFUSION PLATE UNIT	

Service Tools-1

DIA Bond NO.1663G Black



Adhesive Tape SONY T4000



Logenest Rambda A-74



Service Manual CD-ROM



SYMBOL	PARTS NO.	CLASS	QTY	DESCRIPTION	REMARKS
1	CY9-8129-000	Y	1	BOND, DIA BOND NO.1663G BLACK	
2	CY4-6012-000	Y	1	ADHESIVE TAPE, SONY T4000	6mm $ imes$ 50m roll
3	CY9-8102-000	Y	1	LUBE, LOGENEST RAMBDA A-74	80g
4	CY8-4388-031	Y	1	CD-ROM, SERVICE MANUAL (J/E)	

Service Tools-2

Color Viewer (5600 $^{\circ}$ K) C-12 Filter ND-2 Filter Standard Color Bar Chart W-10 Filter **ND-4 Filter** 5 8 **FL-W Filter** ND-8 Filter 18% Gray Chart 9 6 3

SYMBOL	PARTS NO	CLASS	OTY	DESCRIPTION	REMARKS
OTMBOL		01/00	Q I I	BEGOMMINEN	
1	DY9-2039-100	Y	1	COLOR VIEWER 5600K	
2	DY9-2002-000	Y	1	COLOR BAR CHART	
3	CY4-6016-000	Y	1	CHART, 18% GRAY	
4	CY9-1555-000	Y	1	FILTER, C-12	
5	CY9-1556-000	Y	2	FILTER, W-10	
6	CY9-1557-000	Y	1	FILTER, FL-W	
7	CY9-1552-000	Y	1	FILTER, ND-2	
8	CY9-1553-000	Y	1	FILTER, ND-4	
9	CY9-1554-000	Y	1	FILTER, ND-8	

DIAGRAMS

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1. INTERCONNECTION DIAGRAM



CONNECTORS

ST PCB UNIT

	CN202
1	UV_GND
2	STSP
3	VCHGLVL
4	EFCHG
5	LEDS_AN
6	LED_SELF

MAI	MAIN PCB							
	CN1002			CN1004				
1	M_GND		1	VBUS				
2	STSP	1	2	D+				
3	VCHGLVL	1	3	C_GND				
4	EFCHG	1	4	D-				
5	AFLEDAN	1	5	C_GND				
6	AFLEDC	1	6	C_GND				
	CN1003		7	VIDEO				
1	M_GND		8	AUDIO				
2	CFOP	1	9	C_GND				
3	M_GND	1	10	C_GND				
4	MODE	ĺ	11	VC_DET				
5	POWER	1	12	C_GND				
6	VBATT_R	1	13	C_GND				
7	DIALO	1	14	VEE2				
8	DIAL1		15	VBATT				
9	DIAL2		16	VCC2AFE				
10	DIAL3	1	17	VBATT				
11	MENU	1	18	VCC2AFE				
12	SET		19	VBATT				
13	DISP		20	VCC2HDR				
14	EXP/WB/		21	E1PLAT				
	ERASE		22	VCC1M				
15	LEFT		23	VCC1M				
16	RIGHT		24	VCC1M				
17	UP		25	VCC1L				
18	DOWN		26	VCC1L				
19	VCC1		27	VCC1A				
20	LED_MACRO		28	VCC1A				
21	LED_ORANGE		29	VDD2				
22	LED_GREEN		30	VCC1				
23	WIDE		31	VCC1				
24	TELE		32	VCC1				
25	SW1		33	C_GND				
26	SW2		34	VDD3				
27	SCAN		35	E3LAT				
28	LED_WEAK		36	E2LAT				
29	C_GND		37	BTOP				
30	VBATTMP		38	M_GND				
31	SP-		39	M_GND				
32	SP+]	40	M_GND				

B22 /WAIT

B24 Not connected

B23 A02

B25 A01

1					
		CN1005			0
	A1	C_GND		1	N
	A2	/CD1		2	E
	A3	D03		3	S
	A4	D11		4	F
	A5	D04		5	L
	A6	D12		6	L
	A7	D05		7	S
	A8	D13		8	S
	A9	D06		9	C
	A10	D14		10	L
	A11	D07		11	L
	A12	D15		12	L
	A13	/REG		13	C
	A14	A00		14	L
	A15	Not connected		15	C
	A16	D00		16	C
	A17	Not connected		17	V
	A18	D01		18	V
ĺ	A19	D08			0
	A20	D02		1	C
	A21	D09		2	V
	A22	/IOIS16		3	V
	A23	D10		4	N
	A24	/CD2	-	5	V
	A25	C GND		6	V
	B1	/CE1		7	V
	B2	/CE2		8	V
	B3	A10		9	C
	B4	Not connected		10	S
	B5	/OE		11	C
	B6	/IORD		12	F
	B7	A09		13	F
	B8	/IOWR		14	F
	B9	A08		15	V
	B10	/WE	-	16	C
	B11	A07		17	0
	B12	IREQ		18	V
	B13	VCC1			C
	B14	VCC1	-	1	Ν
	B15	A06	-	2	
	B16	Not connected	1		
1	B17	A05	1		
	B18	Not connected	1		
	B19	A04	1		
	B20	RESET	1		
	B21	A03	1		
			1		

N1006		CN1901
_GND	1	ZMRST_CO
ASE_POS	2	RST_COM
CAN	3	ZMRST_AN
OTATE_SW	4	AFRST_AN
TG_CS	5	ZM+
DR_CS	6	ZM+
DATA3	7	ZM+
CLK3	8	ZM+
_GND	9	ZM-
ED_BLC	10	ZM-
CD_BY/COMP	11	ZM-
CD_RY	12	ZM-
_GND	13	AFRST_CO
CD_YS	14	ZMPO_COM
_GND	15	ZMPO1_AN
SYNC	16	ZMPO0_AN
DD3	17	ZMPO1_CO
CC1A_3	18	ZMPO0_CO
N1301	19	C_GND
_GND	20	C_GND
4	21	AFB+
3A	22	AFA+
3B	23	AFB-
2	24	AFA-
1A	25	THM+
1B	26	IRB+
L	27	IRB-
SUB	28	IRA-
UB	29	IRA+
_GND	30	SHT+
1	31	SHT+
2	32	SHT-
G	33	SHT-
DD		
_GND		
_GND		
OUT		
N1701		
IC_GND		

OPF	R FPC		LCD	PCB
	CN401			CN1501
1	WEAK_AN		1	HDB
2	LED_WEAK		2	PSAVE
3	SP+		3	DSAVE
4	SP-		4	CKI
5	POWER		5	FRP
6	VBATT_R		6	POCB
7	M_GND		7	Not conne
8	M_GND		8	PD
9	M_GND		9	XVD
10	DIAL3		10	CS
11	DIALO		11	CLK
12	DIAL1		12	DI
13	DIAL2		13	HDI
14	SCAN		14	VDD
15	SW2		15	VGH
16	SW1		16	VDC
17	TELE		17	VSS
18	WIDE		18	C1
		J	19	C2
ML	FPC		20	VGL
	CN1		21	VSS
1	BASE POS		22	VDD
2	SCAN		23	VSH
3	SCAN		24	R
4	BOTATE SW		25	В
-	CN2		26	G
1			27	VBC
2			28	VCOM
2	SDATA3			CN1502
1	SCIKA		1	LTG_CS
5	GND		2	LDR_CS
6			3	SDATA3
7			4	SCLK3
0			5	GND
0			6	LED_BLC
10			7	LCD_BY/C
11	CND		8	LCD_RY
12			9	GND
12			10	LCD_YS
11			11	GND
14	VUUIA_3]	12	CSYNC
			13	VDD3

14 VCC1A_3

PCB	DCJ	PCB UNIT
CN1501		CN100
HDB	1	BATT+
PSAVE	2	GND
DSAVE	3	BATT-
СКІ		CN101
FRP	1	VBUS
POCB	2	D-
Not connected	3	D+
PD	4	Not connected
XVD	5	UV_GND
CS		CN102
CLK	1	GND
DI	2	GND
HDI	3	GND
VDD	4	BTOP
VGH	5	E2LAT
VDC	6	E3LAT
VSS	7	VDD3
C1	8	GND
C2	9	VCC1
VGL	10	VCC1
VSS	11	VCC1
VDD	12	VDD2
VSH	13	VCC1A
R	14	VCC1A
В	15	VCC1L
G	16	VCC1L
VBC	17	VCC1M
VCOM	18	VCC1M
CN1502	19	VCC1M
LTG_CS	20	E1PLAT
LDR_CS	21	VCC2HDR
SDATA3	22	VBATT
SCLK3	23	VCC2AFE
GND	24	VBATT
LED_BLC	25	VCC2AFE
LCD_BY/COMP	26	VBATT
LCD_RY	27	VEE2
GND	28	GND
LCD_YS	29	GND
GND	30	VC_DET
CSYNC	31	GND
VDD3	32	Audio_GND
VCC1A_3	33	AUGIO
	34	Video
	35	Vi deo_GND
	36	UV_GND
	3/	
	38	UV_GND
	39	
	40	
	4	CINTU3
	2	AUDIO
	3	VIDEO
	4	VC_DET

CF FPC UNIT

	CN601
A1	C_GND
A2	/CD1
A3	D03
A4	D11
A5	D04
A6	D12
A7	D05
A8	D13
A9	D06
A10	D14
A11	D07
A12	D15
A13	/REG
A14	A00
A15	Not connected
A16	D00
Δ17	Not connected
Δ19	D01
A10	D08
A19	D02
A20	D02
A21	
A22	701516
A23	000
A24	
A25	
BI	/CE1
B2	/CE2
B3	A10
B4	Not connected
B5	/OE
B6	/IORD
B7	A09
B8	/IOWR
B9	A08
B10	/WE
B11	A07
B12	IREQ
B13	VCC1
B14	VCC1
B15	A06
B16	Not connected
B17	A05
B18	Not connected
B19	A04
B20	RESET
B21	A03
B22	/WAIT
B23	A02
B24	Not connected
B25	A01

	CN602
1	GND
2	D03
3	D04
4	D05
5	D06
6	D07
7	/CE1
8	A10
9	/OE
10	A09
11	A08
12	A07
13	VCC
14	A06
15	A05
16	A04
17	A03
18	A02
19	A01
20	A00
21	D00
22	D01
23	D02
24	/IOIS16
25	/CD2
26	/CD1
27	D11
28	D12
29	D13
30	D14
31	D15
32	/CE2
33	///S1
34	
35	/IOWB
36	/WF
37	IBEO
38	VCC
30	
40	//S2
11	RESET
41	
42	
40	/INFAUX
44	
40	
40	
4/	000
40	
49	GND
1 30	

2. BLOCK DIAGRAMS

2.1 OVERALL







USB USB

SPEAKER



2.3 MAIN PCB ASS'Y (2/3)



01 OCT, 2003

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2.5 POWER BLOCK



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2.6 Abbreviation in Block Diagrams

Abbreviation	Nominal name	Description
ADC	Analog-to-Digital (A/D) Converter	
AE	Automatic Exposure control	
AF	Automatic Focussing control	
AND	Logic AND circuit	
R-Y/B-Y		Color difference signals of TV system
BPF	Band-Pass Filter	
BUFFER	Buffer circuit	
С	Chrominance signal	Color component signal of TV system
CCD	Charge-Coupled Device	CCD imager
CDS	Correlated Double Sampling system	
COMP.VIDEO	Composite video signal	
COMPARATOR	Voltage comparator	
CPU	Central Processing Unit	
DAC	Digital-to-Analog (D/A) Converter	
DRAM	Dynamic Random Access Memory	Memory with which read and write are freely possible.
DSP	Digital Signal Processing	Typically DSP device
EEPROM	Electrically Erasable PROM	PROM that is electrically erasable.
EVF	Electronic View Finder	
FET	Field Effect Transistor	
FLASH MEMORY		Non-volatile memory with which write and read are freely
		possible.
HPF	High-Pass Filter	
I/F	InterFace	The circuit that interconnects 2 devices or circuits.
IGBT	Insulated Gate Bipolar Transistor	Conductivity-modulation type FET transistor
INV.	Logic Inverter circuit	
IR	InfraRed ray	
IRIS	Iris	
LCD	Liquid Crystal Device	Typically LCD display
LED	Light Emitting Diode	Typically LED display
LPF	Low-Pass Filter	
NTSC	National Television System Committees	NTSC color TV system developed in USA
OP Amp	OPerational Amplifier	
OR	Logic OR circuit	
OSC	OSCillator	
PAL	Phase Alternating by Line	PAL color TV system developed in Germany
PLL	Phase Locked Loop	
PROM	Programmable Read Only Memory	Non-volatile memory in which program can be written.
PWM	Pulse Width Modulation	
REG.	REGulated power supply	
RTC	Real Time Clock	Reference clock oscillator
SDRAM	Synchronous Dynamic RAM	DRAM whose bus interface is synchronous.
SECAM	SEquential Colour À Mémoire	SECAM color TV system developed in France
SW REG	SWitching REGulator	Switching type regulated power supply device
TG	Timing Generator	
USB	Universal Serial Bus	USB type serial data communication system
VCO	Voltage Controlled Oscillator	
VCXO	Voltage Controlled X'tal Oscillator	
XE	Xenon Tube	
Y	Y-signal	Luminance component signal of TV system

3. P.C.B. DIAGRAMS

3.1 MAIN PCB ASS'Y

MAIN PCB ASS'Y (COMPONENT SIDE)

MAIN PCB ASS'Y (CONDUCTOR SIDE)





3.2 DCJ PCB ASS'Y

DCJ PCB ASS'Y (COMPONENT SIDE)



DCJ PCB ASS'Y (CONDUCTOR SIDE)



3.3 ST PCB ASS'Y

ST PCB ASS'Y (COMPONENT SIDE)



ST PCB ASS'Y (CONDUCTOR SIDE)





3.4 LCD PCB ASS'Y



3.5 SW PCB ASS'Y



3.6 OSW PCB ASS'Y







3.8 TOP FPC







3.10 OPR FPC



3.11 SH FPC

