RICOH
Image Communication

Caplio GX

Ricoh Caplio digital camera

Built for high performance

5.13 effective-megapixel CCD, 3x 28~85mm Wide Zoom
Aperture Priority and Manual Exposure modes

※ Lens focal lengths in this catalog are 35mm film camera equivalents.

A Compact Digital Camera Enters the Professional Arena.

There simply hasn't been a compact digital camera suitable for professionals. The Caplio GX changes that with its 5.13 effective-megapixel CCD, 28—85 mm range and the world's fastest (0.12 seconds) shutter release time lag.[1] It also features Aperture Priority and Manual Exposure modes, plus a wide range of functions and unmatched expandability. Providing the ability to captures scenes formerly possible only with a single lens reflex camera, the Caplio GX will fully satisfy the demands of professionals.

● The photographer's skill and the Caplio GX combined to present a delightful mixture of old and new Tokyo.

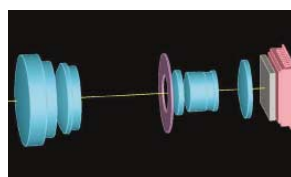● Photo shows members of the Japan Fire-fighting Preservation Society.

Image quality of 5.13 effective-megapixels meets the needs of serious photographers.

The Caplio GX features a 1/1.8-type high resolution CCD with 5.13 effective-megapixel resolution (total of 5.25 megapixels) that ensures excellent results in a wide range of shooting situations. The combination of this CCD and a low-noise, single-chip processor gives you the high image quality required for full-size A3-spread prints.

28~85mm optical 3x zoom transcends the boundaries of compact digital cameras.
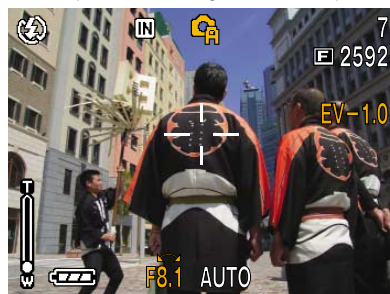

The 3x optical zoom expands the camera's wide angle to 28 mm, a range difficult for other compact digital cameras to achieve. It lets you shoot wide images that couldn't be accommodated in the frame. In addition, Ricoh's new zoom lens utilizes 9 elements in 7 groups to guarantee adequate peripheral light, usually a problem at wide angle edges. Four aspherical lenses and four lenses with high refractive index and low dispersion are arranged to ensure well-balanced correction of aberration in all zoom ranges. The lens quality is comparable to a CCD having 6 or more megapixels.

Greater control than ordinary compact digital cameras: Aperture Priority and Manual Exposure modes.

You want delicate control over depth of field. Aperture priority mode gives it to you. Set it to open with the up-down dial and enjoy a wide range of depth with fine control. You are free to, for example, narrow the aperture to aim for pan-focus images. With a depth of field deeper than a single reflex

lens, you can get well-focused images from directly in front of you to far away. And you can manually set the shutter speed from a high speed of 1/2000 to a long exposure of 30 seconds.

F8.1 AUTO ISO：AUTO -1.0EV（28mm）
※ Image is simulated.

Delicate exposure correction for more subtle lighting effects.

When the contrast of the light is strong, or when you want a white object to be a little whiter or a black object a little blacker, correcting the exposure so it is slightly over or under results in beautiful images with more effective lighting and shading. The Caplio GX can correct exposure in 1/3 EV steps within a range of ± 2.0 EV.

F8.1 1/330 ISO：AUTO -1.0EV（28mm）

＊1: As of April, 2004. Time lag from pressing the shutter until exposure begins in AF without using focus lock.

※ Focal lengths are 35mm film camera equivalents.

The camera that gives you the tools you need for true creative expression.

● This moment couldn't have been captured before. World's fastest 0.12-second shutter release time lag. *1   F4.3 1/64 ISO:200

● A battledore (traditional Japanese paddle) becomes art. Macro performance as close as 1cm.   F2.5 1/30 ISO:64

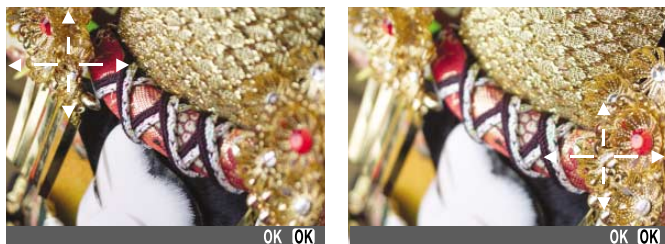## The world's fastest [1] shutter release time lag of only 0.12 seconds.

The most serious shortcoming of digital cameras has been the time lag until the shutter opens. The Caplio GX solves this problem with a Hybrid AF system that achieves extremely high speed response for the world's shortest release time lag of 0.12 seconds, approximately 1.2 seconds from the moment the power is turned on until it can take a picture, and an interval until the next picture can be taken of approximately 1.3 seconds. This means you'll never miss the photo opportunities that suddenly appear before your eyes.

The crystallization of Ricoh's detailed technology: 1cm macro.

Ricoh's highly advanced close-up photo technology lets you fully enjoy the world of macro photography, and now you can take macro shots as close as 1cm (Wide). Take pictures of newspaper and magazine articles instead of making notes, and experiment with new spheres of close-up photography, such as using precision handicrafts as objets d'art or making micro-art from insects and plants.

A unique function useful in creative work: AF Target Selection.

The AF Target Selection function gives you even more creative macro photography possibilities. With your camera fixed on a tripod, you can move the focus point freely to maintain focus. This prevents the slightly out of focus condition that often occurs in focus lock. The ability to control blurring when entering the micro world gives you new creative powers.

When doing macro photography, using the AF Target Selection function lets you shoot while moving the focus point with the camera's four direction buttons ▲▼◀▶ without moving the camera. ※ Images are simulated.

Close-up flash lets you soften light as close as 15cm.

A problem with macro photography has been that the camera or photographer can cast a shadow, making a flash necessary, but since flash intensity couldn't be adjusted, resulting in over exposed shots. The Caplio GX's close-up flash solves this problem by decreasing flash strength according to the distance from the subject. It provides illumination for shots as close as 15cm without causing white out, so you can softly photograph plants, small text and so on.

Six scene modes let you freely choose the optimum program.

With the Caplio GX, you can select six scene modes to match specific shooting demands: Portrait, Sports, Text, High-sensitivity, Night Scene and Landscape. They allow you to shoot smoothly in a variety of situations by operating a single button.

[1] As of April, 2004. The time between pressing the shutter until exposure begins in AF without using focus lock.

※ Focal lengths are 35mm film camera equivalents.

Not just a high performance digital camera, but the realization of a true expressive tool. Expandability nearly equal to that of a single lens reflex.

The expandability of the Caplio GX sets it apart from other compact digital cameras. In addition to the superb performance of the camera itself, whose goal is achieving the two concepts of high picture quality and ease of use, it is designed to be a complete system on the professional level.

System Configuration

The Caplio GX represents a new response from Ricoh to the high end class that could not be satisfied by conventional compact digital cameras. The goal was to create a complete system that makes it easy to shoot in all types of situations, by providing a broad selection of general purpose accessories.

New options   Existing options   General purpose

Teleconversion lens

Wide conversion lens (DW-4)

Microscope

Filters (φ37mm)

Hood and adapter (HA-1)

Field scopes

External flash

Astronomical telescope

External finder

Caplio GX body

Charger (BJ-2), rechargeable battery (DB-43)   AC Adapter (AC-4a)

Soft case (SC-35)   Strap (ST-1)   Tripod

Greater control and convenience is now yours in a compact digital camera.

● Aperture set open to achieve soft, harmonious color tones.

F4.3, 1/55, ISO:64

● One-step exposure correction was tried in order to reproduce delicate harmonious color and detail.

F2.5, 1/6, ISO:Auto, -1.0EV

● ISO sensitivity was set to 64 to shoot in this tranquil atmosphere.

F2.5, 1/16, ISO:64, -0.7EV

● Use of manual focus to simultaneously capture the girls' expressions and the night scene.

F2.5, 1/15, ISO:200

Three metering methods achieve exactly the exposure control you want.

The Caplio GX has three metering modes to let you control exposure just as you wish. Depending on the situation, you can select Multi that divides the entire shooting range into 256 parts to measure the intensity of the light, Center that measures the entire range while emphasizing the center, and Spot that measures the light intensity only at the center.

Optimum manual focus when AF cannot focus.

Sometimes it is difficult to focus with AF, such as when shooting through glass or when the entire subject is white. On those occasions, you can select Manual focus and control the focus freely.

Includes an image non-compression mode to meet professional needs.

In addition to the N (normal) and F (fine) modes, you can select NC (non-compression) mode for recording in TIFF image format. A flexible format that preserves all picture data allowing for a 'digital positive' as it represents a true image.

Histogram display lets you accurately check exposure.

The histogram display lets you judge the brightness of the image without being influenced by the way it appears on the LCD monitor. You can also recall recorded data when playing back images.

F8.1 1/380 ISO:AUTO -1.0EV (22mm)*1
※ Image is simulated.

Reproduce more faithful colors: white balance manual setting.

There are times when you will need to override the automatic white balance by choosing a white balance manually, typically when shooting in multiple light sources. The Caplio GX has six modes to help you obtain faithful colors: Auto, Outdoor, Cloudy, Incandescent, Fluorescent, and One Push that lets you set the white balance manually. This allows you to measure a white point from a part of the image to be captured, which the camera will then use to correct all images until you reset it.

＊1:Using the wide conversion lens DW-4.

To be sure you get the shot you want: White Balance Bracket and Auto Bracket.

With white balance set to the standard value, White Balance Bracket automatically shoots three images, one with a red tone, one at standard white, and one with a blue tone. You just shoot and then choose the one you like best.

Red tone   Standard tone   Blue tone

By engaging Auto Bracket, you get three shots at three different exposure levels: -0.5EV, ±0, and +0.5EV. This ensures that you get the best image even in tricky light conditions.

Use a high capacity lithium ion rechargeable battery, AA batteries, or an AC power source.

As a camera for professional use, the Caplio GX provides superior practicality during emergencies. It can be powered not only by a high capacity lithium rechargeable battery, but also by AA batteries. This is useful if a battery unexpectedly runs out of power. It can also be powered by your household power using an AC adapter.

Long-life battery.

The optional high capacity lithium ion rechargeable battery(DB-43)gives you a high shooting capacity of about 400 pictures[*1](Normal mode, 30-second intervals using flash and zoom for one our of two photos).

Lightweight and durable aluminum alloy body is easy to hold.

Designed to be a professional tool, the Caplio GX adopts an ergonomic grip shape that fits firmly in your hand. It promises holding properties with a highly integrated feel.

Up-down dial (Sub command dial) supports quick manual operation.

This dial lets you set the menu and change aperture or shutter speed more quickly than ever before.

ADJ button simplifies manual control.

The ADJ button allows exposure correction, white balancing and ISO sensitivity setting with fewer operations. You can also customize functions other than these adjustment functions with the ADJ button.

1.8-type high-detail LCD monitor (approx. 130,000 pixels)

Even when the image is expanded, this high precision 'live' monitor lets you quickly and accurately preview focusing when using manual focus.

Packed with numerous other advanced features.

● **Internal 16MB memory/SD card:** Equipped with a compact, high speed, highly reliable SD memory card as its recording media. It also has a convenient 16MB internal memory for recording even without a card.
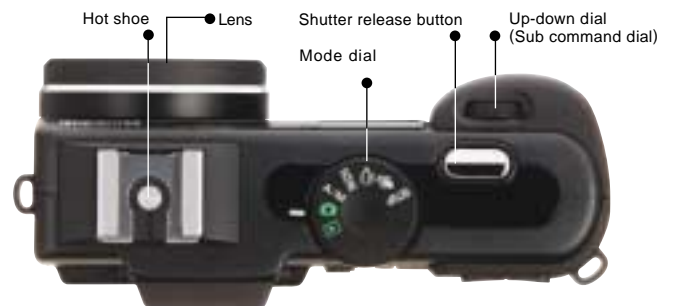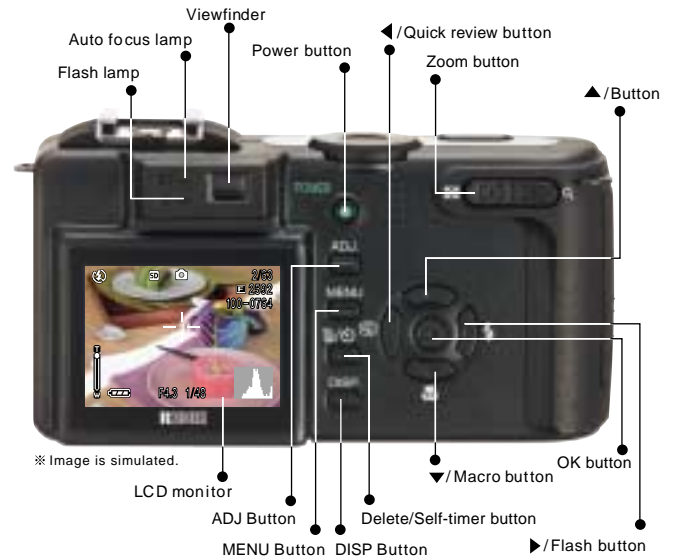
● **Video recording with sound:** In addition to still pictures, the Caplio GX lets you record high quality video(AVI) with sound.

● **S/M continuous mode function:** The S/M continuous mode function lets you record 16 pictures in a single file continuously for 3 seconds. This is a valuable function when, for example, you want to check the continuous motion of your golf swing. You can play back the pictures continuously as animation.

● **ISO adjustment:** To achieve faster shutter speeds and better performance in low light the Caplio GX lets you switch ISO from 64 through 1600.

*1: See the specifications on the back page for the number of photos you can shoot.

Access all functions other than operating the shutter by moving only your thumb. The Caplio GX operating environment is integrated with the photographer.

Viewfinder
Auto focus lamp
Power button
◀/Quick review button
Flash lamp
Zoom button
▲/Button

※ Image is simulated.
LCD monitor
ADJ Button
MENU Button   DISP Button
Delete/Self-timer button
▼/Macro button
OK button
▶/Flash button

Hot shoe   Lens   Shutter release button   Up-down dial (Sub command dial)
Mode dial

Making high performance as easy as possible to use. The Ricoh Caplio solution

Ricoh's policy of aiming for the perfect solution to any problem is exemplified by the design of the Caplio GX. It offers interfaces for personal computers and mobile phones, the organization of stored picture data, the print out environment and so on, on the premise that anyone will be able to operate it without confusion or problems.

● **Camera memo:** When you intend to gather material for a long period, you can systematically organize a massive number of shots by inputting memos such as Milan, Rome, Florence in advance, and then applying them when you are taking pictures. This lets you automatically organize and categorize them by group name on a personal computer.

● **Simple image transmission via USB:** You can easily send images simply by connecting a special USB cable for personal computers, without even software. You can even do convenient picture resizing when you organize, store, print, or e-mail image data.

● **USB direct print:** If you have a PictBridge compatible printer, you can do direct printing without using a computer simply by connecting the camera to the printer with a USB cable.

■Caplio GX Major Specifications

Item	Description
Recording format	Still :JPEG(Exif ver.2.21)Non-compressed (TIFF) DCF*1 compliant, DPOF compliant, Text :TIFF(MMR system) Motion :AVI(Open DML Motion JPEG format compliant) Sound :WAV(Exif ver.2.21)
Video Signal Method	NTSC/PAL switchable
Recording Media	SD Memory Card™(3.3V 8/16/32/64/128/256/512MB), MultiMediaCard™(16/32/64MB) Built-in memory(16MB)
CCD	1/1.8-inch primary-color CCD with effective 5.13 million pixels (5.25 million square pixels)
Resolution	Still :2592 x 1944, 2048 x 1536, 1280 x 960, 640 x 480 Text :2560 x 1920, 2048 x 1536 Motion :320 x 240, 160 x 120
Recording Mode	Still (Continuous, S-Continuous, M-Continuous), Aperture-Priority/Manual exposure, Scene (Portrait, Sports, Landscape, Night Scene, Text, High-Sensitivity), Motion, Sound
Picture Mode	Fine, Normal, Non-compressed
Storage capacity (No. of pictures) (Internal 16MB Memory)*2	Still 7(2592 x 1944 Fine), 13(2592 x 1944 Normal)1 (2592 x 1944 NC) 10 (2048 x 1536 Fine), 20(2048 x 1536 Normal) 20 (1280 x 960 Fine), 39(1280 x 960 Normal)141(640 x 480 Normal)
Storage capacity(time) (Internal 16MB Memory)*3	Motion :44 seconds(320 x 240), 158 seconds(160 x 120) Sound :33 minutes 53 seconds
Storage data capacity	Still Approx.9.61MB(2592 x 1944 Non-compressed), Approx.1.79MB(2592 x 1944 Fine), Approx.1.03MB(2592 x 1944 Normal),Approx.1.29MB(2048 x 1536 Fine), Approx.671KB(2048 x 1536 Normal), Approx.686KB(1280 x 960 Fine), Approx.356KB(1280 x 960 Normal),Approx.82KB(640 x 480 Normal)
Lens	Focal range f:5.8-17.4mm(equivalent to 28-85mm for 35mm film cameras) Step-zoom intervals: 4 steps (28mm, 35mm, 50mm, 85mm) Brightness F:2.5(W)-4.3(T) Lens structure 9 glass elements in 7 groups
Digital Zoom	x4(Maximum x 12 in combination with optical zoom)
Shutter	Still :30,15,8,4,2,1-1/2000sec. (electronic/mechanical shutter), During long-term exposure, has noise Elimination function. Motion :1/30-1/2,000 sec.(electronic shutter)
Object distance	Approx. 0.3m - ∞(Macro: Approx. 0.01m - ∞,Telemacro:Approx. 0.08m - ∞)
ISO Sensitivity	Auto, ISO64, ISO100, ISO200, ISO400, ISO800, ISO1600
View Finder*4	Real-image optical zoom finder
LCD Monitor	1.8 inch low temperature polysilicon TFT LCD (approx. 130,000 pixels)
Flash*5	Auto(automatic flash in backlight), Red-eye Reduction, On, Slow Synchro, Off Distance:0.2-5.0m(W), 0.15-2.9m(T) (ISO auto or ISO400)
Focus	Autofocus, Manual Focus, Fixed Focus(Snap), ∞ (includes AF auxiliary light)
Exposure Adjustment	TTL-CCD photometric system:Multi(256 segments), Center Weight, Spot
Exposure Compensation	Manual compensation(+2.0--2.0 EV in 1/3 EV steps), Auto-bracket(-0.5 EV, ±0,+0.5 EV)
White Balance	Auto, Daylight, Overcast, Tungsten Light, Fluorescent Light, One push(Manual) White Balance Bracket
Self Timer	Delay:Approx.10sec., 2sec.
Interval Timer	Shooting interval:30sec.-3hours(30 sec.steps)
PC Interface	USB1.1(compatible with PCs with Windows98/98SE /2000 Professional/Me/XP Home Edition XP Professional pre-installed or Macintosh with Mac OS 8.6-9.2.2 or Mac OS X 10.1.2-10.3)
AVInterface	Audio Out, Video Out
Battery	Specialized lithium-ion rechargeable battery (DB-43 option) AA battery (Alkali/nickel mercury rechargeable battery)
Shooting Capacity*6	Using DB-43:Approx.3,700 pictures(continuous), approx.400 pictures(normal). Continuous reproduction of still pictures:Approx.340minutes Using AA alkaline batteries:Approx.120 pictures(normal)
Dimensions(W x D x H)	113.6 x 29.0 x 58.0mm(excluding projections)
Weight	Approx.205g(excluding battery, SD Memory Card, hand strap)
Operating Temperature	0-40˚Cs

*1: DCF is the abbreviation of JEITA Standard "Design rule for Camera Files system." (It does not guarantee perfect inter-camera compatibility.)
*2: General guide for still-picture recording capacity
*3: Maximum.80sec. per shot(320 x 240), maximum 300sec. per shot(160 x 120)
*4: When shooting at wide-angles, the vignette can be seen at the bottom left-hand corner of the view finder – this has no affect on captured images.
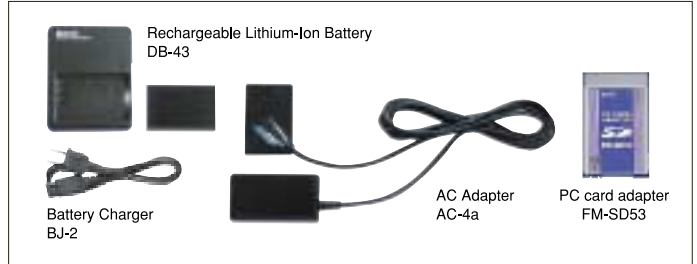*5: Distance is valid when ISO auto or ISO400 are set.
*6: Under Ricoh measurement parameters. Actual performance may vary depending on the condition of use Continuous mode: 640 x 460 flash off, zoom not used, and Monitor Display off (power-saving mode) Normal mode: Approx. 30 second intervals using flash and zoom for 1 out of 2 photos, AA alkaline batteries allow usage of approx. 60minutes.

■Caplio GX Optional Accessories

Rechargeable Lithium-Ion Battery
DB-43

Battery Charger
BJ-2

AC Adapter
AC-4a

PC card adapter
FM-SD53

■Caplio GX Software

	Windows XP	Windows 98/98SE/2000/Me	Mac OS X 10.1.2-10.3	Mac OS 8.6-9.2.2
1. RICOH Gate La	○	○	—	○
2. DU-10x	○	○	—	—
3. USB driver	○	○	○	○
4. WIA driver	○	—	—	—
5. Mounter	—	—	○	○
6. Acrobat Reader	○	○	—	—
7. Direct X	○	○	—	—

■Caplio GX Software Operating Environment

	Windows	Macintosh
Operating Software	Windows 98/98 Second Edition Windows 2000 Professional Windows Me Windows XP Home Edition/XP Professional	Mac OS 8.6-9.2.2 Mac OS X 10.1.2-10.3
CPU	Pentium II or faster	Power PC or faster
Memory Space	Windows 98/98SE:32MB or more(96MB or more recommended) Windows 2000 Professional : 128MB or more(256MB or more recommended) Windows Me:64MB or more(96MB or more recommended) Windows XP Home Edition/XP Professional:128MB or more(256MB or more recommended)	Mac OS 8.6-9.2.2 : 96MB or more (128MB or more recommended) Mac OS X 10.1.2-10.3 : 128MB or more (256MB or more recommended)
Hard Disk Space	Windows 98/98SE: 10MB or more(during installation) Windows 2000 Professional: 10MB or more(during installation) Windows Me: 10MB or more(during installation) Windows XP Home Edition/XP Professional: 10MB or more(during installation)	Mac OS 8.6-9.2.2 : 10MB or more (during installation) Mac OS X 10.1.2-10.3 : 100 MB or more (during installation) 100MB or more(during operation)
Display	Resolution:640 x 480 dots or more, 256 colors or more (800 x 600 dots or more, 65,000 colors or more recommended)	Resolution:640 x 480 dots or more, 256 colors or more (800 x 600 dots or more, 32,000 colors or more recommended)
Other	USB board, keyboard, CD-ROM drive, mouse required	USB board, keyboard, CD-ROM drive, mouse required

※Only USB connection is available when connecting Caplio GX to a PC.Serial connection is unavailable.
※Supplied software can be used for Caplio RX,G4 series,G3 series,ProG3,300G,400G wide,and RR30. Caplio G3 model S and ProG3 are not compatible with Macintosh.

■SD Memory Card Storage Capacity(Number of Images and Time)

Mode	Recording pixels	Picture mode	32MB	64MB	128MB	256MB
Still	2592 x 1944	NC	3 images	6 images	12 images	25 images
		Fine	15 images	30 images	62 images	123 images
		Normal	24 images	50 images	103 images	205 images
	2048 x 1536	Fine	20 images	41 images	80 images	167 images
		Normal	39 images	80 images	163 images	325 images
	1280 x 960	Fine	38 images	79 images	159 images	318 images
		Normal	75 images	154 images	313 images	624 images
	640 x 480	Normal	270 images	553 images	1118 images	2229 images
Text	2560 x 1920	—	39 images	80 images	163 images	325 images
	2048 x 1536	—	75 images	154 images	313 images	624 images
Motion *7	320 x 240	—	1'26"	2'57"	5'58"	11'56"
	160 x 120	—	5'16"	10'46"	21'47"	43'34"
Sound		—	64'38"	132'13"	267'17"	532'38"

※ Number of recordable pictures and recordable time may vary depending on the manufacturer and shooting conditions.

*7 : Maximum 80sec. per shot(320 x 240), maximum 300sec. per shot(160 x 120)

For more information, visit:

http://www.ricoh.co.jp/r_dc