

RICOH

Caplio R4

Digital Camera Caplio

○ Portable compact body with

- **Optical 7.1x Zoom** 28^[Wide Angle]mm - 200^[Zoom]mm
- **CCD Shift Vibration Correction Function**
- **Effective 6.04 Megapixel CCD**



Image is simulated

- **330 Shots Per Battery Charge**^{*1}
- **New Brighter, High-quality 2.5-inch LCD Monitor (153,000 Pixels)**
- **0.007 Sec. Shutter Release Time Lag**^{*2}
- **1cm Macro**
- **Skew Correction Function**

^{*1} Approximate figure measured using CIPA standard parameters. Actual performance may vary widely according to usage conditions.

^{*2} Measured with focus lock engaged (Vibration Correction OFF, Flash OFF)

Focal lengths are 35mm film camera equivalent.



Ricoh's state-of-the-art technology expands the potential of compact digital cameras



Caplio Technology



Double Retracting Lens System

Ricoh's original Double Retracting Lens System enables a 7.1x optical zoom range — wide-angle 28mm to 200mm zoom — from a slim 26mm* body.

* Dimensions exclude projecting parts



Large 2.5-inch High Quality LCD Monitor (153,000 pixels)

The large 2.5-inch LCD monitor allows for clearer, more detailed and defined shooting and playback of images.

High-Speed Hybrid AF System

A hybrid AF System is employed that combines a standard CCD autofocus system with a passive AF external sensor. This results in faster, more precise focusing that lets you capture the best moments before they slip away.

26mm*-slim Curve Fit Form

The compact, 26mm*-slim body with full-metal finish has a high-quality look. Slightly curved when seen from above, its Curve Fit Form provides a comfortable grip.



* Dimensions exclude projecting parts

Smooth Imaging Engine

Ricoh's original Imaging Engine, which features highly efficient signal processing as well as excellent noise reduction, allows superior high-definition images in a variety of shooting conditions, with details that are rich in depth and texture.

Effective 6.04 megapixel CCD

The image pickup device, the basis for high definition, features a remarkably compact 1/2.5-inch, 6.04 megapixel CCD that enables beautiful, high-definition reproduction in large-sized prints.

Capture the moment as desired with the Optical 7.1x Wide Zoom Lens

28mm [wide]

Casual panoramic landscapes become unexpectedly dynamic



Great perspective at wide-angle 28mm

In pursuit of more dynamic expression, Ricoh incorporated a 28mm wide-angle optical 7.1x zoom lens in the 26mm slim body. This lens is capable of capturing the true beauty of wide-open landscapes that can't be portrayed with the 35mm lenses of many compact digital cameras today. Moreover, when shooting close-ups, the emphasized sense of perspective lets you easily achieve dramatic photos. With Caplio R4, casual moments during trips become vivid images.



35mm field of view

200mm [zoom]

Zoom in to capture all the subtle details of your subject



105mm field of view

As for tele-shooting, Caplio R4 offers a maximum 200mm setting, enabling you to frame the scene in creative ways. By using various framing techniques, you can make objects stand out from the background. Plus, the new Caplio R4 incorporates the latest CCD shift Vibration Correction Function, which helps deliver sharp zoom pictures by reducing blur caused by camera shake.

Frame the scene as you like with 200mm zoom
Vibration Correction Function OFF



Digital performance beyond what you'd expect from a compact camera

Vibration Correction Function

Zooming is enhanced by reduced camera shake blur

CCD-shift Vibration Correction Function

Whenever excessive camera motion is detected, the vibration correction system (based on the CCD shift method) moves the CCD in the opposite direction to counterbalance camera shake and reduce blur. This function is effective at reducing the effects of camera shake in high-powered telephoto and macro shots, thus maximizing the effectiveness of Caplio R4's optical 7.1x zoom and 1cm macro features.



Zoomed shot with Vibration Correction OFF



Zoomed shot with Vibration Correction ON

Photo simulates effectiveness of Vibration Correction that varies depending on shooting conditions.

1 cm [macro mode]

Macro photography from an astonishing new perspective



Ricoh's proven macro photography technology lets you shoot from as close as 1cm (wide angle) or 14cm (telemacro) away from your subject, expanding your vision into the amazing world of macro photography, which cannot be experienced with the naked eye. By combining the zoom macro mode with digital zoom, you can also enlarge tiny subjects, making Macro photography even more exciting.

AF Target Selection

This feature enables you to focus sharply on a certain object within the frame without moving the camera. By determining the optimum field of view, and taking into consideration such information as the size and contrast of the object, this feature raises focusing accuracy even during macro shooting.



Image is simulated

Speedy Response

Capture picture-perfect moments with near-instantaneous response

Caplio R4 powers up in approximately 1.1 seconds*. From the instant the focus is locked (half pressed) until exposure actually starts, it only takes approximately 0.007 seconds*. Response time without locking the focus is as fast as 0.09 seconds* (approx.). And shooting intervals are a rapid 0.5 seconds* (approx.). Through refined digital technology, Ricoh provides fast, highly responsive performance that allows you to capture fleeting moments with confidence and ease.

* Time measurements with flash and Vibration Correction Function OFF.



Wide-ranging digital features plus operational ease in a compact body

Long-lasting battery provides approx. 330 shots*

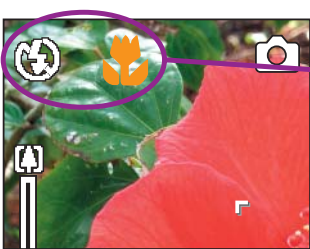
With the included rechargeable battery, you can shoot approximately 330 pictures* even while using the Vibration Correction function and LCD display. That's enough for an entire vacation or business trip. Synchro monitor mode automatically switches the LCD monitor off when the camera is not in use, delivering an even larger gain in battery power conservation.

*Number of shots measured using CIPA standard parameters.
Actual performance may vary according to usage conditions.

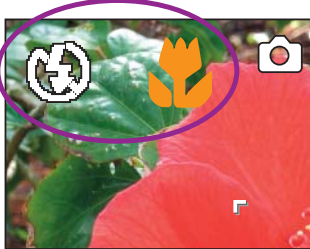


Enlargeable icons

To help ensure that you select all settings accurately, you can enlarge the icons on the LCD monitor that show current operating modes such as flash and macro.



Standard icon display



Enlarged icon display
May differ from actual display.

Eight scene modes for optimized settings at the touch of a button.

Portrait Mode

Sports Mode

Landscape Mode

Night Scene Mode

Skew correction Mode

Text Mode

Zoom Macro Mode

High-sensitivity Mode

Caplio R4 has a variety of convenient features ideal for business use



Skew Correction Feature

This feature automatically detects trapezoids in your images and corrects them to rectangles so your pictures appear as though shot from the front. It's effective in environments where blackboards, information boards, time schedules, and signboards cannot be shot directly from the front.



My Settings Feature

A very useful feature, this saves frequently used settings such as zoom area, macro, scene modes, and white balance so the same settings can be called up at any time no matter who uses the camera. It's especially useful in business situations, where the same tone is often required for all pictures.

Other Features

Histogram display lets you confirm exposure

The histogram display shows the exposure details of an image in a graphical format on the LCD monitor so you can accurately check for and correct overexposure or underexposure. This feature is especially effective when an overly bright environment lowers LCD visibility.

Multipoint focus for enhanced focusing precision

Up to 5 focus zones are provided. The zone at which the focus is currently set is indicated on the LCD monitor.

Easy shooting of video with sound

Caplio R4 records video with sound at your choice of 15 frames per second or a more natural 30 fps. A 1GB SD Memory Card allows you to record continuously for up to 168 minutes and 30 seconds.

Auto bracketing and white balance bracketing

With auto bracketing, the camera automatically shoots three images at different exposure levels: -0.5EV, ±0, +0.5EV. White balance bracketing applies three different color tones to the images.

Modulating shutter release sound reduces mistakes

The sound of the shutter release varies depending on how quickly the shutter release button is pressed. This audio feedback helps keep you in synch with your camera and avoid mistakes.

Record the date and time with your picture

You can record the date (year/month/day) or date and time (year/month/day, hour:minute) in the right bottom corner of any still image.

ADJ (adjust) button

A quick press of the convenient ADJ button allows you to call up and adjust frequently used settings. Icons for exposure adjustment, white balance and two additional settings of your choice will display on the LCD monitor.



ISO and sharpness adjusted
Image is simulated

Three continuous shooting modes enhance your pleasure

Continuous mode, S-continuous mode, and M-continuous mode

Caplio R4 features a Continuous mode that shoots continuously as long as you press the shutter button. This enables you to capture the best moments such as during sports. Caplio R4 also offers Stream(S)-continuous and Memory reverse(M)-continuous modes, which are perfect for capturing continuous motions like golf swings. These three continuous shooting modes enhance the pleasure of digital picture taking.



- Stream-continuous mode: One press of the shutter button fires 16 shots in 2.2 seconds.
- Memory-reverse continuous mode: By releasing the shutter, the last 16 shots in 2.2 seconds is stored in memory.

PictBridge Compatible PictBridge

Caplio R4 is compatible with PictBridge, an industry standard for direct printing. Just connect the camera with a printer via cable and print directly: no computer is necessary.

Document Print Function

By connecting Caplio R4 to any compatible Ricoh printer*, you can print pictures in a document form. Effective for business use, this feature provides a choice of 6 styles and 10 patterns.

* For further details, please contact your local Ricoh Dealer.

Image Mixer software for editing images (for Windows)

Download your Caplio R4 pictures to a computer and you can use the bundled Image Mixture* software to edit, correct and organize them, or create video CDs.

* Image Mixer is a product of Pixela Corporation.
For more information visit :

<http://www.imagemixer.com/>

Bundled Desk Top Binder Lite

Once you've downloaded your Caplio R4 images to a computer, you can use this bundled software to edit, store, and print your Caplio R4 images in the same way as a text document file.



Caplio R4 Major Specifications

Item	Description
CCD	Effective 6.04 million pixels (6.18 million square pixels), 1/2.5-inch primary-color CCD
Lens	Focal length f: 4.6-33.0mm (equivalent to 28-200mm for 35mm film cameras) Step-zoom intervals: 7 steps (28mm, 35mm, 50mm, 85mm, 105mm, 135mm, 200mm) Aperture F: 3.3 (W)-4.8 (T)
Vibration Correction Function	CCD shift method
Zoom	7.1x optical zoom (equivalent to 28-200mm for 35mm film cameras); 3.6x digital zoom
Subject Distance	From lens tip: approx. 0.3m - ∞ (wide angle), approx. 1.0m - ∞ (zoom)
Macro Subject Distance	From lens tip: approx. 0.01m - ∞ (wide angle), approx. 0.14m - ∞ (telemacro)
Shutter	Still 8, 4, 2, 1-1/2000 sec. Motion 1/30-1/2000 sec.
Pixels	Still 2816 x 2112, 2784 x 1856, 2048 x 1536, 1280 x 960, 640 x 480 Text 2816 x 2112, 2048 x 1536 Motion 320 x 240 (30 frames/sec.), 160 x 120 (30 frames/sec., 15 frames/sec.)
Picture Mode *1	Fine, Normal
ISO Sensitivity	Auto, ISO64, ISO100, ISO200, ISO400, ISO800
Flash	Off, Auto, Red-eye Reduction, On, Slow Synchro Distance:*2 Approx. 0.2-2.4m(W), 0.14-1.6m(T) (ISO auto)
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, ±0.5 EV)
White Balance	Auto/Fixed (Daylight, Overcast, Tungsten Light, Tungsten Light 2, Fluorescent Light, One Push)
Recording Media	SD Memory Card™ (32/64/128/256/512MB/1GB), Multi Media Card™, Built-in Memory 26MB
Storage Capacity (No. of Pictures) *3 (Internal 26MB Memory)	Still 2816 x 2112 (Fine: 11, Normal: 19), 2784 x 1856 (Fine: 12), 2048 x 1536 (Fine: 18, Normal: 36), 1280 x 960 (Fine: 33, Normal: 63), 640 x 480 (Normal: 277)
Storage Capacity (Time) (Internal 26MB Memory)	Motion 1 minutes 17 seconds (320 x 240: 15 frames/sec.), 4 minutes 38 seconds (160 x 120: 15 frames/sec.)*4 39 seconds (320 x 240: 30 frames/sec.), 2 minutes 26 seconds (160 x 120: 30 frames/sec.) Sound 56 minutes 45 seconds *5
Storage Data Capacity (File Sizes)	Still Approx. 2.16MB (2816 x 2112 Fine), Approx. 1.24MB (2816 x 2112 Normal), Approx. 1.88MB (2784 x 1856 Fine), Approx. 1.31MB (2048 x 1536 Fine), Approx. 672KB (2048 x 1536 Normal), Approx. 686KB (1280 x 960 Fine), Approx. 356KB (1280 x 960 Normal), Approx. 88KB (640 x 480 Normal)
Recording Mode	Still mode (Continuous, S-Continuous, M-Continuous), Scene mode (Portrait, Sports, Landscape, Night Scene, Skew Correction, Text, Zoom Macro, High-sensitivity), Motion mode, Sound mode
Recording Format	Still JPEG (Exif ver. 2.21) DCF*6 compliant Text TIFF (MMR system ITU-T.6) Motion AVI (Open DML Motion JPEG format compliant) Sound WAV (Exif ver. 2.21 µlaw)
LCD Monitor	2.5" translucent amorphous silicon TFT LCD (approx. 153,000 pixels)
Self Timer	Delay: 10 sec., 2 sec.
Interval Timer	Shooting interval: 5 sec., - 3 hours (5 sec. steps) *7
PC Interface	USB1.1 (choice of Ricoh original or mass storage driver*8)
AV Interface	Audio Out, Video Out
Video Signal Method	NTSC/PAL
Dimensions (W x D x H)	95.0 x 26.0 x 53.0mm (excluding projections)
Weight	Approx. 135g (excluding battery, SD Memory Card, hand strap) Accessories (battery, hand strap) approx. 30g
Power Source	Rechargeable battery (DB-60) x 1, AC adaptor (AC-4c)
Shooting Capacity*9	Using DB-60: Approx. 330 pictures
Operating Temperature	0-40°Cs

* 1: For 2784 x 1856 pixel images, only Normal is available. For 640 x 480 pixel images, only Normal is available.

* 2: Distance is valid when ISO auto or ISO400 is set.

* 3: Average number of still images.

* 4: Max. recording time of 168 min. 30 sec. with 1GB SD Memory Card.

* 5: Max. recording time of 2,063 min. 25 sec. with 1GB SD Memory Card.

* 6: DCF is the abbreviation of JEITA Standard "Design rule for Camera Files system."
(It does not guarantee perfect inter-camera compatibility.)

* 7: With flash OFF.

* 8: Mass storage driver is compatible with Windows Me/2000/XP and Mac OS 9/OS X 10.2-10.4. It is not compatible with Windows 98/98SE or Mac OS 8.6.

* 9: Number of shots measured using CIPA standard parameters. Actual performance may vary according to usage conditions.

Caplio R4 Optional Accessories

Accessory Name
Rechargeable Lithium-Ion Battery: DB-60
Battery Charger: BJ-6
AC Adapter: AC-4c*10
Soft Case: SC-60

*10: Tripods cannot be used when AC adapter is attached.

Caplio R4 Software

	Windows XP	Windows 98/98SE/2000/Me	Mac OS X 10.1.2-10.4	Mac OS 8.6-9.2.2
1. RICOH Gate La	○	○	×	○
2. Image Mixer 1.6	○	○	×	×
3. USB Driver *11	○	○	○	○
4. WIA Driver	○	×	×	×
5. Caplio Mounter	×	×	○	○
6. Acrobat Reader	○	○	×	×
7. Direct X	○	○	×	×
8. Desk Top Binder Lite	○	○*12	×	×

*11: Ricoh original.

*12: Compatible with Windows 98SE/2000/Me. Not compatible with Windows 98.

Caplio R4 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 10.1.2-10.4
CPU	Pentium III 500 MB or more	Power PC or faster
Memory Space	Windows 98/98 SE: 128 MB or more Windows 2000 Professional: 128 MB or more Windows Me: 128 MB or more Windows XP Home Edition/XP Professional: 256 MB or more	Mac OS 8.6 - 9.2.2: 96 MB or more (128 MB or more recommended) Mac OS X 10.1.2 - 10.4: 128 MB or more (256 MB or more recommended)
Hard Disk Space	Windows 98/98 SE: 500 MB or more (during installation) Windows 2000 Professional: 500 MB or more (during installation) Windows Me: 500 MB or more (during installation) Windows XP Home Edition/XP Professional: 500 MB or more (during installation)	Mac OS 8.6 - 9.2.2: 10 MB or more (during installation) Mac OS X 10.1.2 - 10.4: 100 MB or more (during installation and 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 R4 to a PC. Serial connection is unavailable.
- Valid for systems with preinstalled OS and USB port.
- Supplied software can be used for Caplio R30, R3, GR DIGITAL, GX8, R2S, R2, R1V, RZ1, R1, GX, RX, RR30, G4 series, G3 series, Pro G3, 300G, 400Gwide. 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	Built-in memory	32MB	64MB	128MB	256MB	512MB	1GB
Still	2816 x 2112	Fine	11 images	12 images	26 images	52 images	105 images	212 images	408 images
		Normal	19 images	22 images	45 images	91 images	181 images	365 images	702 images
		2784 x 1856	Fine	12 images	14 images	30 images	60 images	120 images	243 images
		2048 x 1536	Fine	18 images	21 images	43 images	87 images	173 images	349 images
Text	2816 x 2112	Normal	36 images	41 images	84 images	170 images	339 images	683 images	1314 images
		1280 x 960	Fine	33 images	38 images	79 images	159 images	318 images	641 images
		640 x 480	Normal	63 images	72 images	148 images	301 images	600 images	1029 images
		160 x 120 (15 frames/sec.)	Normal	277 images	315 images	645 images	1304 images	2599 images	5237 images
Motion	2816 x 2112	—	59 images	67 images	138 images	279 images	557 images	1122 images	2158 images
		2048 x 1536	—	87 images	99 images	203 images	412 images	821 images	1654 images
		320 x 240 (15 frames/sec.)	1'17"	1'27"	2'59"	6'03"	12'04"	24'19"	46'47"
		320 x 240 (30 frames/sec.)	0'39"	0'44"	1'31"	3'04"	6'07"	12'19"	23'42"
Sound	160 x 120 (15 frames/sec.)	4'38"	5'16"	10'47"	21'49"	43'29"	87'37"	168'30"	331'31"
		160 x 120 (30 frames/sec.)	2'26"	2'46"	5'40"	11'27"	22'50"	46'01"	88'31"
		—	56'45"	64'36"	132'11"	267'15"	532'36"	1073'00"	2063'25"
		—	—	—	—	—	—	—	—

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

• Average number of images and time.

For more information, visit:

http://www.ricoh.com/r_dc

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