RICOH
Image Communication

Caplio R1v
Ricoh Caplio digital camera

Simply Superior - Superior Beauty

Effective Megapixel
5.0
CCD

Wide-angle 28-135mm optical 4.8x zoom lens inside a slim 25mm body

● **Top shutter release time lag 0.05 seconds**[1]

● **1cm macro**

● **Energy efficient takes about 490 shots on rechargeable battery**[2]

● **Ricoh s new Retracting LENS System technology**

● **Smooth Imaging Engine image processing system**

[1] Approximate time. Measured from the moment the shutter is fully pressed down. [2] Based on CIPA standard. ※ Focal lengths are 35mm film camera equivalents. ※ Image is simulated

Covering the angles from wide 28mm to 135mm with an optical 4.8x zoom lens.
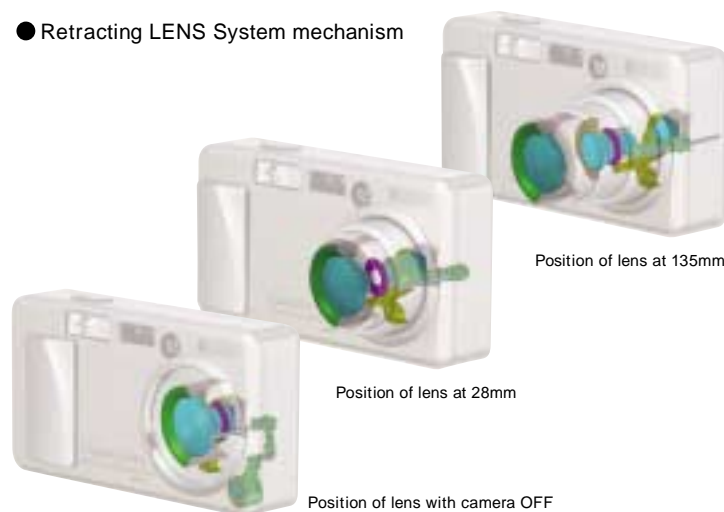

▲28mm

28mm *4.8×ZOOM*

Ricoh s innovative Retracting LENS System.

How did we fit a powerful 4.8x (28mm-135mm) optical zoom lens inside a 25mm slim camera? With our ingenious Retracting LENS System, which swings part of the lens group like a pendulum inside the camera when the lens retracts. As a result, the Caplio R1V is about 26% slimmer than cameras with conventional lens systems. To maximize the image capturing power of the 5.0-megapixel CCD, four highly refractive, low-dispersion glass lenses are incorporated.

● Retracting LENS System mechanism

Position of lens at 135mm

Position of lens at 28mm

Position of lens with camera OFF

5-step zoom for instant zoom selection.

Switch on the step zoom function and you can quickly zoom to any of the five preset optical focal lengths: 28mm, 35mm, 50mm, 85mm or 135mm.

28mm

35mm

50mm

85mm

135mm

Slim, compact and packed with leading-edge technology.

▲135mm

135mm

Broaden your horizons with a wide-angle 28mm view.

Ricoh was a pioneer in bringing wide-angle photography to the Caplio series. Our newest Caplio features a wide-angle 28mm view, expanding your perspective far beyond that of common 35mm digital cameras. So you can capture more even when you have less room to work with.

▲ 28mm Even shop roofs and sky are visible in this wide-angle shot. ▲35mm

Introducing Ricoh s Smooth Imaging Engine image processing system. The brain of a more highly evolved camera.

Images captured from a wide-angle lens are expansive, requiring the CCD to handle greater amounts of information. To process the information rapidly, the Caplio R1V incorporates Ricoh's Smooth Imaging Engine image processing system, which features 12-bit image processing and filtering processing to produce images with natural gradation and very low noise. Our color management software matches the CCD's spectral sensitivity, optimizing color reproduction. For natural images with true colors, the Caplio R1V simply is more advanced.

The energy-wise Caplio R1V takes around 490 pictures on a rechargeable battery.

You get high performance using less energy with the Caplio R1V. Using the camera's rechargeable battery, you can take about 490 pictures* between charges. AA alkaline batteries, which offer a great back-up plan when you're on vacation or working, give you around 200 shots*. Plus, you can run the camera from its AC adaptor. So, altogether the Caplio R1V offers three easy and efficient power-up options. To conserve

AA batteries

∗Based on CIPA standard

Rechargeable battery

battery power, the synchro monitor mode automatically switches off the LCD display when the camera is not in operation. The LCD display powers up again when you push the shutter button half down. The Caplio R1V—the digital camera you can relax with.
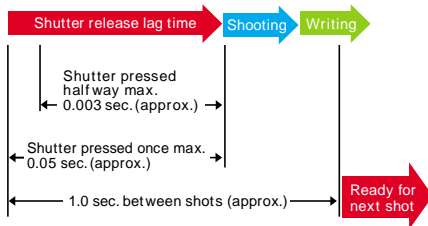
Shutter release lag time of 0.05 seconds for instant response.

A perfect moment disappears in the blink of the eye. To capture it, you need a camera like the Caplio R1V that responds instantly. Switch on the power: You're ready to shoot in approximately 0.8 seconds*. Snap your picture: Shutter release time lag is as little as 0.05 seconds (even faster is the approximately 0.003 second shutter response time from focus lock, which is engaged when you press the shutter button halfway). Ready for your next shot? The Caplio R1V resets in about one second. So you won't miss the moment.

＊With flash OFF

Shutter release lag time

| Shutter release lag time | Shooting | Writing |

Shutter pressed half way max. 0.003 sec. (approx.)

Shutter pressed once max. 0.05 sec. (approx.)

1.0 sec. between shots (approx.)

Ready for next shot

▲28mm

Designed to accompany you everywhere you go.

Like a credit card, the Caplio R1V is around 100mm wide and 55mm tall. Just 25mm thin, it slips easily into your pocket or handbag. Carry it with you every day and discover a world of photo opportunities.

Six scene modes match various situations.

Six scene modes are displayed as icons on the LCD monitor for easy access. Just choose the right mode for your scene and start shooting.

Portrait
Blurs the distant background beautifully

Sports
Capture fast-moving subjects

Landscape
For scenes lush with greenery or blue sky

Night scene
For night scenes and foreground subjects with a night scene background

Other modes include **Text** for shooting all kinds of printed text
High-sensitivity for use in low light environments

Three continuous shooting modes: Continuous, S-continuous, and M-continuous.

To photograph a moving subject, use regular continuous mode and the Caplio R1V will fire continuously for as long as you press down the shutter button. In S-continuous mode, one press of the shutter button fires 16 shots in 2.2 seconds and stores them in a single file. And M-continuous mode memorizes the last 16 shots in a 2.2-second file. These two modes are handy for capturing various kinds of continuous motion situations. Use them to analyze your tennis or golf swing, or capture a baby or pet playing.
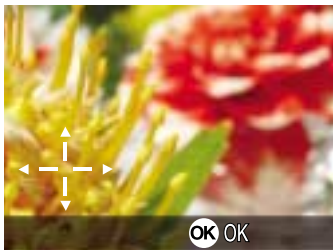
With the 16 shots captured in M-continuous and S-continuous modes, you can display any frame individually or play back all images continuously as an animation on the LCD monitor or on your television with the AV cable.

With its 1cm macro, the Caplio difference shows up in the details.

◀ Wide-angle macro
(equivalent to 35mm)

The Caplio R1v's macro photography function lets you shoot as close as 1cm from your subject. You can also set the zoom at maximum focal length and shoot in telemacro mode from as close as 13cm away. From 15cm away, flash power will automatically adjust to prevent any unwanted whiteout effects. So you can get amazing perspectives on flowers and jewelry, as well as insects and other tiny life forms.

▲135-zoom macro

▲135-zoom macro

AF Target Selection enhances macro photography.

With AF Target Selection, you can fix the camera on a tripod and shift the focus point using buttons. This feature enhances your ability to create dynamic macro compositions and attractive blurring.
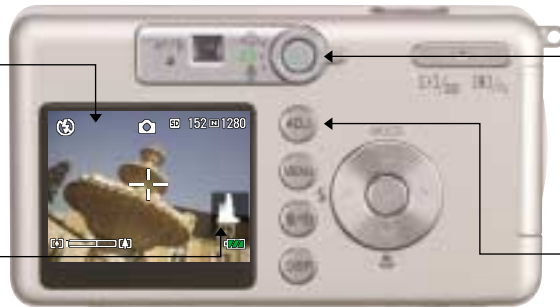
AF Target Selection features four direction buttons— ▲▼◀▶ —that enable you to shift and find the best focus point without moving the camera.

※ Image is simulated

Easy shooting. Easy viewing. Large, bright 1.8 LCD monitor.

The Caplio R1V makes framing your shots, viewing the results, and using the menu all easy with a bright high-contrast 1.8" 110,000 pixel high-precision TFT monitor.

※ Image is simulated

Quick Review offers an instant look at your latest shots.

Press the Quick Review button to instantly check a shot on the LCD monitor. It's easy to enlarge areas of an image up to 8x ※ to confirm if the focus was sharp.

※Digital zoom. For use with still images with resolution up to 2560 x 1920.

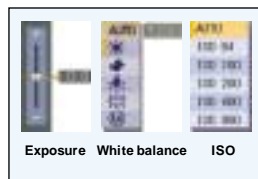## Confirm exposure before shooting with the histogram display.

While framing a shot, you can review the exposure details on the LCD monitor so you can tell beforehand if the shot will be overexposed or underexposed. The exposure data for any image can also be viewed during playback.

※ Image is simulated

Customize your settings with the ADJ button.

Exposure   White balance   ISO

The ADJ button allows you to adjust exposure, white balance and ISO sensitivity settings with a few easy clicks. You can also customize your camera with this button, positioning frequently used settings such as the photometry system and resolution for instant access.

● Other Caplio R1V features.

Shoot video with sound until the SD Memory Card is full.
The Caplio R1V shoots low-noise video (AVI, 30 frame/sec.) continuously for as long as space is available on the SD Memory Card. Digital zoom lets you get close to the action and sound is recorded in real-time. And the camera can function as a voice recorder for meetings and interviews.

Auto bracket shoots 3 different exposure levels.
With auto bracket, you press the shutter once and get three shots at three different exposure levels. When you're shooting in complicated exposure conditions, this feature triples your chance of getting the perfect shot.

White balance bracket for shooting in various light sources.
White balance bracket helps to ensure accurate color reproduction for the specific light source. Settings include auto, daylight, overcast, tungsten light and fluorescent light.

Record the date and time with any 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.

Ricoh Caplio captures the business scene, too.

● **PictBridge compatible for direct printing.**
The Caplio R1V prints directly from any PictBridge compatible printer. Just connect it with a USB cable and you can make prints on the spot. Perfect for sudden meetings or anytime you want to share a picture right away.

PictBridge

● **Correct and edit images with your computer.**
Our image viewer software turns your camera into a powerful business tool, allowing you to enhance or correct your pictures and organize them easily for quick recall.

● **View your images on a large-screen TV.**
The Caplio R1V's 5.0-megapixel high-precision images can also be shown on a large-screen TV with beautiful results.

Retail Price: Open

Black

Champagne

〈Accessories Included〉
① USB Cable
② AV Cable
③ CD-ROM
④ AA Alkaline Batteries x 2
⑤ Hand Strap

● Instruction Manuals (Camera, Introduction)＊
  Warranty Card

＊ Software manual supplied on CD-ROM

■Caplio R1V Major Specifications

Item		Description
Recording Format	Still	JPEG (Exif ver. 2.21) DCF ＊1 compliant
	Text	TIFF (MMR system ITU-T.6)
	Motion	AVI (Open DML Motion JPEG format compliant)
	Sound	WAV (Exif ver. 2.21)
Video Signal Method		NTSC/PAL
Recording Media		SD Memory Card™ (32/64/128/256/512MB/1GB), Multi Media Card™
CCD		1/2.5-inch primary-color CCD with effective 5.02 million pixels (5.19 million square pixels)
Resolution	Still	2560 x 1920, 2048 x 1536, 1280 x 960, 640 x 480
	Text	2560 x 1920, 2048 x 1536
	Motion	320 x 240 (30 frames/sec.), 160 x 120 (30 frames/sec.)
Recording Mode	Still	(Continuous, S-Continuous, M-Continuous),
	Scene	(Portrait, Sports, Landscape, Night Scene, Text, High-Sensitivity), Motion, Sound
Picture Mode		Fine, Normal
Storage Capacity (No.of Pictures) (Internal 12MB Memory)＊2	Still	6 (2560 x 1920 Fine), 10 (2560 x 1920 Normal) 8 (2048 x 1536 Fine), 15 (2048 x 1536 Normal) 15 (1280 x 960 Fine), 29 (1280 x 960 Normal), 127 (640 x 480 Normal)
Storage Capacity (Time) (Internal 12MB Memory)	Motion	18 seconds (320 x 240), 67 seconds (160 x 120)＊3
	Sound	26 minutes 10 seconds＊4
Storage Data Capacity (File Sizes)	Still	Approx. 1.81MB (2560 x 1920 Fine), Approx. 1.03MB (2560 x 1920 Normal), Approx. 1.35MB (2048 x 1536 Fine), Approx. 673KB (2048 x 1536 Normal), Approx. 626KB (1280 x 960 Fine), Approx. 326KB (1280 x 960 Normal), Approx. 83KB (640 x 480 Normal)
Lens		Focal length f: 4.6 -22.2mm (equivalent to 28 -135mm for 35mm film cameras) Step-zoom intervals: 5 steps (28mm, 35mm, 50mm, 85mm, 135mm) Aperture F: 3.3 (W)-4.8 (T) Lens structure 9 glass elements in 7 groups
Digital Zoom		x 3.6 (Maximum x 17.3 in combination with optical zoom)
Shutter	Still	8,4,2,1-1/2000 sec.
	Motion	1/30-1/2000 sec.
Object Distance		Approx. 0.3m-∞ (Macro: Approx. 0.01m -∞, Telemacro: Approx. 0.13m -∞)
ISO Sensitivity		Auto, ISO64, ISO100, ISO200, ISO400, ISO800,
View Finder＊5		Real-image optical zoom finder
LCD Monitor		1.8" translucent amorphous silicon TFT LCD (approx. 110,000 pixels)
Flash＊6		Auto, Red-eye Reduction, On, Slow Synchro, Off Distance: Approx. 0.2-2.7m (W), 0.13-2.1m (T) (ISO auto)
Focus		Autofocus, Manual Focus, Fixed Focus (Snap), ∞ (includes AF auxiliary light)＊7
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/Fixed (Daylight, Overcast, Tungsten Light, Fluorescent Light, One Push)
Self Timer		Delay: 10sec., 2 sec.
Interval Timer		Shooting interval: 30 sec. - 3 hours (30 sec. steps)
PC Interface		USB1.1
AV Interface		Audio Out, Video Out
Power Source		AA battery (alkaline/NiMH rechargeable battery) x 2, rechargeable battery (DB-50) x 1, AC adaptor (AC-4b)
Shooting Capacity	Based on CIPA standard	Using DB-50: Approx.490 pictures (normal) Using AA alkaline batteries: Approx. 200 pictures (normal)＊9
	Ricoh measurement parameters＊8	Using DB-50: Approx.490 pictures (normal) Using AA alkaline batteries: Approx. 190 pictures (normal)＊9
Dimensions (W x D x H)		100.2 x 25.0 x 55.0mm (excluding projections)
Weight		Approx. 150g (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: Max. recording time of 88 min. 31 sec. with 1GB SD Memory Card.
＊4: Max. recording time of 2,063 min. 27 sec. with 1GB SD Memory Card.
＊5: When you look through the finder during wide-angle shooting, a black rim (vignetting) may be visible at the left bottom edge of the lens. It will not affect your actual image.
＊6: Distance is valid when ISO auto or ISO400 are set.
＊7: In dark places, the flash may pre-flash before the camera shoots.
＊8: Under Ricoh measurement parameters. Actual performance may vary depending on the condition of use. Normal mode: Approx. 30 second intervals using flash and zoom for 1 out of 2 photos, AA alkaline batteries allow usage of approx. 100 minutes.
＊9: With AA alkaline batteries (included).

■Caplio R1V Optional Accessories

Accessory Name
Rechargeable Battery Set: BS-5
Rechargeable Lithium-Ion Battery: DB-50
AC Adapter: AC-4b
PC Card Adapter: FM-SD53

■Caplio R1V 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. CaplioViewer	○	○	—	—
3. USB Driver	○	○	○	○
4. WIA Driver	○	—	—	—
5. Mounter	—	—	○	○
6. Acrobat Reader	○	○	—	—
7. Direct X	○	○	—	—

■Caplio R1V 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 (256 MB 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 in-stallation) Mac OS X 10.1.2-10.3: 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 R1V to a PC. Serial connection is unavailable.
※ Supplied software can be used for Caplio RX, GX, R1, R1S, RZ1, 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	Built-in memory	32MB	64MB	128MB	256MB	512MB	1GB
Still	2560 x 1920	Fine	6 images	15 images	31 images	63 images	126 images	255 images	491 images
		Normal	10 images	25 images	52 images	105 images	210 images	424 images	816 images
	2048 x 1536	Fine	8 images	20 images	41 images	83 images	166 images	334 images	643 images
		Normal	15 images	39 images	80 images	163 images	325 images	654 images	1259 images
	1280 x 960	Fine	15 images	38 images	79 images	159 images	318 images	641 images	1233 images
		Normal	29 images	72 images	149 images	301 images	600 images	1209 images	2325 images
	640 x 480	Normal	127 images	315 images	645 images	1305 images	2600 images	5239 images	10075 images
Text	2560 x 1920	—	15 images	39 images	80 images	163 images	325 images	654 images	1259 images
	2048 x 1536	—	29 images	72 images	149 images	301 images	600 images	1209 images	2325 images
Motion	320 x 240	—	0'18"	0'44"	1'31"	3'02"	6'03"	12'13"	23'24"
	160 x 120	—	1'07"	2'48"	5'40"	11'37"	23'10"	46'02"	88'31"
Sound	—	—	26'10"	64'38"	132'13"	267'17"	532'38"	1073'11"	2063'27"

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

For more information, visit:

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

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