R8

RICOH

28-200mm Optical 7.1x Zoom
10 megapixel CCD 1/2.3 inch type
Smooth Imaging Engine III

Where there is a will,
there is a faithful instrument to express it.

For those who enjoy picture-taking in both business and pleasure,
an ideal camera should have what it takes to capture not just images
but the photographer's feelings and intents as well.
The refined body, stripped of frills and ornaments to become
a perfect portable instrument, is fully equipped with
qualities "to shoot what you want to shoot".
The R8 - a camera for people who enjoy photography everyday.

✱ Focal lengths indicated are 35mm film camera equivalents.   image (right) : f=28mm 1/16 sec. F3.3 ISO100

f=200mm 1/26 sec. F5.2 ISO100

f=200mm 1/52 sec. F5.2 ISO100

The ability to reproduce images
as well as the photographer's intents - all in a single body.

28 - 200mm wide-angle optical 7.1x zoom lens in a compact body that fits snuggly in your palm.

Ricoh's cutting-edge Double Retracting Lens System has enabled a 28 - 200mm wide-angle, optical 7.1x zoom lens to fit perfectly in an easy-to-use, easy-to-carry compact body just 22.6mm thick (at the thinnest part). And to further enhance the camera's potentials, it is also equipped with a mechanism to switch between two zooming speeds with a single turn of the lever. Wherever you go, it will respond precisely to your motivation to express.

Auto Resize Zoom enables up to 40.5x (equivalent to 1130mm)* zoom.

Beyond the optical zoom lens' maximum of 200mm (7.1x), the R8 has 5-stage auto-resize zoom that reaches a maximum of 40.5x (equivalent to 1130mm)*. Images can be resized to 8M, 5M, 3M, 1M, and VGA giving you the freedom to select whatever zoom you want.

✽ VGA image size (640 x 480 pixel recorded image)
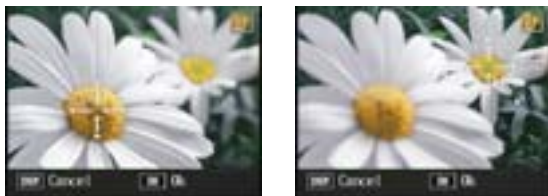
| 28mm | 200mm | VGA |

Frame small subjects artistically at all focal points with Macro photography.

Macro photography can truly depict small subjects three-dimensionally to scale at all focal points. The R8 allows you to shoot your subject from just 1cm away with the lens at its widest angle✽, or draw back to telemacro and still get as close as 25cm. It adds a touch of creativity to the faithful imagery of the photographer's intent.

✽ Equivalent to 32mm

Switch the target without changing the frame with AF/AE Target Selection.

Whether you are taking a picture in normal shooting mode or macro shooting mode, this function allows you to shift the target for both auto focus (AF) and/or automatic exposure (AE) without having to move the camera. This is particularly useful when you are fixing the camera on a tripod.

✽ Simulated images

10 million effective pixels, 1/2.3" CCD reproduces the beauty per se.

With its 10 effective megapixel 1/2.3" CCD, the R8 offers highly precise power to express every detail vividly. Paired with the high-performance SIE III image processor, you can capture the smallest of details in brief moments of encounter with your subject.

Achieve high sensitivity photography in any situation with Ricoh's image processing engine, Smooth Imaging Engine III.

The excellent image quality is delivered by Ricoh's digital technology, the Smooth Imaging Engine III. It clears noise from the image signals without compromising resolution. In combination with its advanced image processing, gradation and color tone adjustments, it delivers unrivalled color reproduction to achieve delicate and natural expressions even in high ISO shooting environments.

High-definition 2.7-inch, 460,000-pixel LCD offers sharper view of every detail.

The R8 is equipped with a wide-view, high-contrast 2.7-inch, 460,000-pixel LCD that offers excellent viewing even under strong sunlight. Images appear clear and sharp to the finest detail. You can easily identify the small images in the 20-frame Thumbnail Display that is useful in playing back images.

✽ Simulated image

For that moment you can't miss, Dual Vibration Correction reduces blur from both camera shake and subject movement.

To reduce camera shake caused by hand movement, the R8 is equipped with CCD Shift Vibration Correction function for uncompromised image quality. Auto-HI Mode offers greater ISO range and faster shutter speed that helps reduce blurs in dark rooms that require higher ISO.

✽ Vibration Correction is not guaranteed to work in all photographic conditions.

High-speed response to shooting commands, including the amazing shutter release time lag of just 0.011 seconds.

The R8 offers high-speed response that reacts instantly to your instincts. The shutter release time lag from focus lock is only 0.011 seconds*. It needs just another 0.6 seconds* to reset for your next shot. It powers up in 1.4 seconds*. All commands are answered with agility and comfort.

✽ Time is measured under Ricoh's measuring conditions with flash and Vibration Correction function OFF, and may vary depending on photographic conditions.

Face Recognition Mode enables beautiful reproduction right down to the skin tone.

The R8 is equipped with Face Recognition Mode for clear capture of the delicate texture of the skin tone. It automatically identifies faces and makes adjustments to optimize focus, exposure and white balance. It works even when the face is not in the center of the frame.

✽ Identifies up to 4 faces.
✽ Face Recognition Mode is not guaranteed to work in all photographic conditions.

f=50mm 1/250 sec. F4.2 ISO100

f=28mm 1/13 sec. F3.3 ISO800

f=200mm 1/52 sec. F5.2 ISO100

Even the briefest encounter has infinite expressions.
Capture every detail with precision and clarity.

Aspect ratio of 1:1 stimulates your motivation to express.
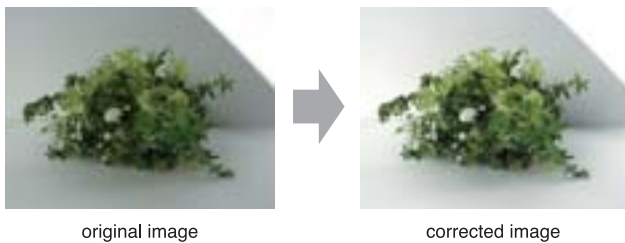
Setting the camera to [F1:1] Mode allows you to record your photos in square format common for medium format cameras. It delivers you a different perspective, and saves you the effort when posting images on your blog.

Enjoy the in-depth expressions you create with the Fix Minimum Aperture function.

By fixing the shutter's opening at its minimum, you can shoot with minimum aperture. It offers you the insight to shoot deeper into the subject.

An array of editing functions allows you to pursue many possibilities with your camera without the help of a computer and software.

● **Level Compensation to correct image brightness and contrast.**
You can use either Auto or Manual mode to correct the brightness and contrast of your still images. Manual mode allows even precise correction by adjusting the histogram.

original image   corrected image

● **White Balance Compensation to correct the image color tone.**
This function allows you to correct the green, magenta, blue, and amber colors in your still images to achieve the perfect color tone.

original image   corrected image

● **Easy trimming of still images.**
This function allows you to trim your still images and save them as separate file. It is particularly useful when using your images for direct printing with PictBridge.

My Setting Mode offers instant access to your favorite settings.

Save your favorite settings in My Setting Mode and have instant access to them by a simple turn of the mode dial. You can customize two groups of settings and switch back and forth depending on your purpose.

More speedy operation at your beckoning with the ADJ. (adjust) Button.

With the ADJ. Button, you can easily toggle through the operation menu such as exposure, white balance and ISO sensitivity to capture whatever and however you intend to. You can browse through the menu with a single button, so your thumb stays still and ready for the next shot.
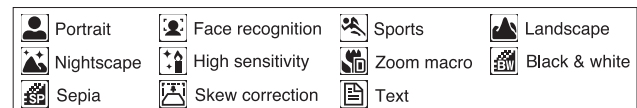
Color Bracket records your photos in three tones.

In addition to normal color photos, every picture you take is recorded in black-and-white that offers a more artistic expression of light and shadows, and also in sepia tone that offers a nostalgic taste. The R8 gives you the choice of playfulness and expression.

color   black-and-white   sepia

Choose from 11 different scene modes to frame your subject with precision.

Select from among the 11 scene modes depending on your photographic situation. Enjoy your photography with easy, optimum settings.

Portrait	Face recognition	Sports	Landscape
Nightscape	High sensitivity	Zoom macro	Black & white
Sepia	Skew correction	Text	

Dual Size Recording Function

With a single push of the shutter, you can record pictures at both full resolution and thumbnail size. It is particularly useful when using your images for e-mail attachments and blog posting.

PictBridge compatibility

By connecting your camera to a direct-printing compatible printer you can print directly without using a computer.

[Other Major Features]

[Shooting]
● Long-life rechargeable battery for approximately 270 images*[1].
● SDHC memory card compatible (4GB, 8GB).
● 24MB internal memory.
● VGA, 30fps high-quality movie capture.
● Consecutive shooting modes: Continuous / S-Continuous / M-Continuous
  (S-Cont and M-Cont have 16 frames in an image file).
● Enlarged icon display*[2].
● Auto bracket, white balance bracket.
[Playback]
● Highlight Display function*[3].
● Delete All function & 10-frame forward/backward display function.
[Solutions]
● Camera Memo function.
● Ricoh printer-compatible format printing function.

✱1: Battery performance measured using CIPA standard parameters. Actual performance may vary according to usage conditions.
✱2: Not all icons can be enlarged.
✱3: Based on Ricoh standards.

Black

Silver

〈Accessories Included〉
- USB Cable
- AV Cable
- CD-ROM
- Hand Strap
- Rechargeable Lithium-Ion Battery: DB-70
- Battery Charger: BJ-7
- Instruction Manual (Camera User Guide)*
  Warranty Card

＊Software manual supplied on CD-ROM

■ R8 Major Specifications

Items		Specifications
No. of Effective Pixels		Approximately 10 million pixels
Image Sensor		1/2.3-inch CCD (total pixels: approx. 10.30 million pixels)
Lens	Focal Length	4.95 - 35.4mm (Focal length at the equivalent of 28-200mm for 35mm cameras. With Step Zoom set, option of seven fixed lengths: 28mm, 35mm, 50mm, 85mm, 105mm, 135mm, and 200mm.)
	F-aperture	F3.3 (Wide) - F5.2 (Telephoto)
	Shooting Distance	Normal shooting: Approx. 30cm - infinity (Wide), approx. 1.0m - infinity (Telephoto) (From lens tip) Macro shooting: Approx. 1cm - infinity (Wide), approx. 25cm - infinity (Telephoto) (From lens tip)
Zoom Magnification		Optical: 7.1x zoom (equivalent to 28-200mm focal length for 35mm cameras), Digital: 4.8x, Maximum: 34.1x (equivalent to 960mm) when used with optical zoom Auto Resize: 5.7x*1, Maximum: 40.5x*1(equivalent to 1130mm) when used with optical zoom
Focus Modes		Multi AF (CCD method), Spot AF (CCD method), Manual Focus, Fixed Focus (Snap), Infinity (focus lock, AF auxiliary light)
Vibration Correction Function		CCD shift Image Stabilizer
Shutter Speed*2	Still Image	8, 4, 2, 1 - 1/2000 sec.
	Movie	1/30 - 1/2000 sec.
Exposure Control	Exposure Metering Mode	Multi Light Metering (256 segments), Center Weighted Light Metering, Spot Metering (TTL-CCD metering method)
	Exposure Mode	Program AE
	Exposure Compensation	Manual Exposure Compensation +/-2.0EV (1/3EV Steps), Auto Bracket Function (-0.5EV, ±0, +0.5EV)
ISO Sensitivity (Standard Output Sensitivity)		AUTO, AUTO-HI, ISO64 / ISO100 / ISO200 / ISO400 / ISO800 / ISO1600
White Balance Mode		AUTO / Outdoors / Cloudy / Incandescent / Incandescent 2 / Fluorescent / Manual, White Balance Bracket Function
Flash	Flash Mode	Auto flash (fires automatically in low-light conditions and when the subject is backlit), Red-eye Flash, Flash On, Flash Synchro, Soft Flash, Flash Off
	Built-in Flash Range	Approx. 20cm - 3.0m (Wide-angle), approx. 25cm - 2.0m (Telephoto)(ISO Auto, from the front of the lens)
Picture Display		2.7-inch Transparent Amorphous Silicon TFT LCD (approx. 460,000 pixels)
Shooting Mode		Auto Shooting Mode / Scene Modes (Portrait / Face / Sports / Landscape / Nightscape / High Sensitivity / Zoom Macro / Black&White / Sepia / Skew Correction / Text), My Settings Mode / Movie Mode
Picture Quality Mode*3		F（Fine）/N（Normal）
Number of Recorded Pixels	Still Image	[4 : 3] 3648 x 2736, 3264 x 2448, 2592 x 1944, 2048 x 1536, 1280 x 960, 640 x 480 [3 : 2] 3648 x 2432 [1 : 1] 2736 x 2736
	Movie	640 x 480, 320 x 240
	Text	3648 x 2736, 2048 x 1536
Recording Media		SD memory card (3.3V: 32, 64, 128, 256, 512MB, 1GB, 2GB), SDHC memory card (4GB, 8GB), MultiMedia card, Internal memory (approx. 24MB)
Storage Capacity Number of Pictures / Time*4 (on internal 24MB memory)	Still Image	3648 x 2736 F:6 N:11, 3648 x 2432 F:7, 2736 x 2736 F:8, 3264 x 2448 N:13, 2592 x 1944 N:21, 2048 x 1536 N:32, 1280 x 960 N:58, 640 x 480 N:219
	Movie*5	640x480@15 frames/sec. (36 sec.), 320 x 240@15 frames/sec. (1 min. 10 sec.), 640x480@30 frames/sec. (18 sec.), 320 x 240@30 frames/sec. (36 sec.)
Recording File Format	Still Image	JPEG(Exif ver.2.21)*6
	Text	JPEG(Exif ver.2.21)*6
	Movie	AVI (Open DML Motion JPEG format compliant)
Other Major Shooting Functions		Cont / S-Cont / M-Cont, Self-Timer (operation time: approx. 10 sec. / 2 sec.),Interval shooting (Shooting interval: 5 sec. - 3 hours (5 sec. steps)*7, Color Bracket function, Fix Min. Aperture, AF/AE Target Shift, Record Dual Size, Histogram, Grid Guide, Enlarge Photo Icon, Playback Image Rotation function
Other Major Playback Functions		Grid View, Enlarged Display (maximum 16x), Resize, Level Compensation, White Balance Compensation, Trim
Interface		USB 2.0 mini-B, High-Speed USB, Mass storage compatible*8 Audio Out / Video Out
Video Signal Formats		NTSC, PAL
Power Supply		Rechargeable Battery (DB-70) x 1, AC adapter (AC-4f optional)
Battery Consumption*9		Based on CIPA Standard: Using the DB-70, approx. 270 pictures*9
Dimensions		102.0mm(W) x 58.3mm(H) x 26.1mm (22.6mm at the thinnest part) (D) (excluding projecting parts)
Weight		Camera: Approx. 168g (excluding battery, SD memory card, and strap), Accessories: approx. 23g (battery and strap)
Operating Temperature		0˚C - 40˚C

＊1: VGA image size.
＊2: Shutter speed upper and lower limits vary depending on Shooting Mode and Flash Mode.
＊3: The picture quality mode that can be set varies depending on the image size.
＊4: Estimated number of still images it is possible to record and estimated amount of movie recording time.
＊5: The maximum length for one instance of movie recording is 90 minutes or the file size upper limit of 4GB.
＊6: Compatible with DCF and DPOF. DCF is the abbreviation for "Design rule for Camera File system," a JEITA standard. (Full compatibility with other devices is not guaranteed.)
＊7: When the flash is set to [Off].
＊8: Mass storage mode is supported by Windows Me, 2000, XP, Vista, Mac OS9.0-9.2.2, and Mac OSX10.1.2-10.5.1.
＊9: The number of remaining shots is based on the CIPA standard and may vary depending on usage conditions. This is for reference only.

■ R8 Optional Accessories

Product Name	Model Name
Rechargeable lithium-ion battery	DB-70
Battery charger	BJ-7
Soft case (black)	SC-80BK
Soft case (brown)	SC-80BN
Neck strap	ST-2
AC adapter	AC-4f

■ R8 Software

	Windows Vista	Windows XP	Windows 2000/Me
1. RICOH Gate La	○	○	○
2. Irodio Photo & Video Studio	○	○	○
3. Acrobat Reader	○	○	○
4. Ridoc Desk Navigator Lt	○	○	○
5. List Editor	○	○	○
6. Caplio Transfer Software	○	○	○

■ R8 System Requirements

	Windows
Operating system	Windows 2000 Professional Windows Me Windows XP Home Edition / Professional Windows Vista
CPU	Windows 2000 / Me / XP: Pentium® III 500MHz or faster, Windows Vista: Pentium® III 1GHz or faster
Memory	Windows 2000 / Me / XP: 256MB or more Windows Vista: 512MB or more
Hard drive space (required for installation)	160MB or more
Display resolution	1024 x 768 pixels or greater
Display colors	65,000 colors or greater
CD-ROM drive	A CD-ROM drive compatible with the above-mentioned computer
USB port	A USB port compatible with the above-mentioned computer

＊Only USB connection is available when connecting R8 to a PC. Serial connection is unavailable.
＊Valid for systems with preinstalled OS and USB port.
＊R8 is compatible with Mac OS 9.0 to 9.2.2 and Mac OS X 10.1.2 to 10.5.1 by mass storage connection.

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

Mode	Picture mode	Recording pixels	Built-in memory	256MB	512MB	1GB	2GB	4GB	8GB
Still	Fine	3648 x 2736	6 images	63 images	128 images	247 images	503 images	989 images	2022 images
	Normal	3648 x 2736	11 images	111 images	224 images	431 images	878 images	1724 images	3524 images
	Fine	3648 x 2432	7 images	71 images	144 images	278 images	563 images	1107 images	2263 images
	Fine	2736 x 2736	8 images	85 images	171 images	330 images	668 images	1311 images	2681 images
	Normal	3264 x 2448	13 images	138 images	278 images	534 images	1078 images	2117 images	4327 images
	Normal	2592 x 1944	21 images	216 images	436 images	839 images	1707 images	3352 images	6852 images
	Normal	2048 x 1536	32 images	338 images	682 images	1313 images	2671 images	5246 images	10724 images
	Normal	1280 x 960	58 images	599 images	1208 images	2323 images	4726 images	9282 images	18973 images
	Normal	640 x 480	219 images	2227 images	4488 images	8632 images	15359 images	30159 images	61643 images
Text		3648 x 2736	11 images	111 images	224 images	431 images	878 images	1724 images	3524 images
		2048 x 1536	32 images	338 images	682 images	1313 images	2671 images	5246 images	10724 images
Movie	640x480 (15frames/sec.)		00'36"	06'07"	12'19"	23'42"	48'13"	99'08"	193'30"
	640x480 (30frames/sec.)		00'18"	03'5"	06'14"	11'59"	24'23"	50'10"	97'55"
	320x240 (15frames/sec.)		01'10"	11'57"	24'05"	46'19"	94'11"	193'41"	378'02"
	320x240 (30frames/sec.)		00'36"	06'07"	12'19"	23'42"	48'13"	99'08"	193'30"

＊Number of recordable pictures and recordable time are estimates.
＊Movie recording time may vary depending on the capacity of your SD memory card.
＊The maximum recording time is the estimated total recording time.
  The maximum recording time per shooting is 90 continuous minutes or the equivalent of 4GB.

For more information, visit :
http://www.ricoh.com/r_dc