

GR DIGITAL II Main Specifications

Item	Specifications	
Imaging Sensor	1/1.75" primary-color CCD with 10.01 million effective pixels (total pixels: 10.3 million)	
Lens	Focal length	5.9 mm (equivalent to 28mm on a 35mm camera)
	F-aperture	F2.4 to F11 (+F7.1 in auto mode is with ND filter)
	Shooting distance	Approx. 30cm from lens tip to infinity Approx. 1.5cm from lens tip to infinity (macro)
	Lens construction	6 elements in 5 groups (two aspherical lenses/three aspherical surfaces)
Digital Zoom Magnification	Approx. 4.0X digital zoom. Approx. 5.7X auto-resize zoom (VGA images)	
Focus Mode	Multi AF (CCD method)/Spot AF (CCD method)/Manual focus/snap/Infinity (focus lock and AF auxiliary light also available)	
Shutter Speed 1	Still image	180, 120, 60, 30, 15, 8, 4, 2, 1 to 1/2000 sec. (Max. and min. Shutter speeds change according to shooting mode and flash mode)
	Movie	1/30 to 1/2000 sec.
Exposure Adjustment	Exposure metering mode	Multi Light Metering (256 segments), Center-weighted Light Metering, Spot Metering (TTL-CCD Metering Method, AE lock available)
	Exposure mode	Program shift AE/Aperture priority AE/Manual exposure
	Exposure compensation	Manual compensation (+2.0 to -2.0 EV in 1/3 EV steps), Auto bracket function (-0.5 EV, ±0, +0.5 EV / -0.3 EV, ±0, +0.3 EV)
ISO sensitivity (Standard Output Sensitivity)	AUTO/AUTO-Hi/ISO80/100/200/400/800/1600	
White Balance Mode	Auto/Outdoors/Cloudy/Incandescent Lamp/Fluorescent Lamp/Manual Settings/Detail, White balance bracket function	
Flash	Flash mode	Auto (fires automatically when subject poorly lit or in backlight situations)/Red-eye/Flash On/Flash Synchro/Flash Off
	Built-in flash range	Approx. 20 cm to approx. 3.0 m (ISO AUTO)
	Flash compensation	±2.0 EV (1/3 EV steps)
Picture Display	2.7-inch Transparent Amorphous Silicon TFT LCD, approx. 230,000 pixels	
Shooting Mode	Auto Shooting Mode/Program Shift Mode/Aperture Priority Mode/Manual Exposure Mode/Scene Mode (skew correct/text/movie)/My Settings Mode	
Picture Quality Mode 2	F(Fine) / N(Normal) / RAW (DNG file format) 3	
Number of Recorded Pixels	Still image	3648 x 2736, 3648 x 2432, 2736 x 2736, 3264 x 2448, 2592 x 1944, 2048 x 1536, 1280 x 960, 640 x 480
	Movie	640 x 480, 320 x 240
	Text	3648 x 2736, 2048 x 1536
Recording Media	SD memory card, SDHC card (4MB, 8MB), Multi media card, Internal memory (approx. 54MB)	
Storage Capacity/Time 4 (Built-in approx. 54 MB storage)	Still	3648 x 2736 (RAW: 2, F: 14, N: 24), 3648 x 2432 (RAW: 3, F: 15, N: 27), 2736 x 2736 (RAW: 3, F: 18, N: 32), 3264 x 2448 (N: 30), 2592 x 1944 (N: 47), 2048 x 1536 (N: 73), 1280 x 960 (N: 133), 640 x 480 (N: 497)
	Movie 5	640 x 480 @ 30 frames/sec. (41 sec.), 640 x 480 @ 15 frames/sec. (1 min 22 sec.), 320 x 240 @ 30 frames/sec. (1 min 22 sec.), 320 x 240 @ 15 frames/sec. (2 min 40 sec.)
Recording File Formats	Still	JPEG (Exif ver2.2) 6, RAW (DNG)
	Movie	AVI (Open DML Motion JPEG Format Compliant)
Other Major Shooting Function	Continuous/S-Cont/M-Cont, Self-Timer (delay: approx. 10 sec / approx. 2 sec.), Interval (shooting interval: 5 sec. to 3 hrs. in 5-sec. intervals)7, Color Bracket, Double Tone, Color Space Set, Noise Reduction, Histogram Display, Grid Guide Display, Depth of Field Display, Enlarge Photo Icon, Electronic Level (accuracy: ±0.5°), Hot Shoe	
Other Major Playback Function	Auto Rotate, Three-frame View/Grid View, Magnifying (up to 16X), Resize	
Interface	USB2.0 (High-Speed USB) Mini-B cable, Mass storage 8, AV output	
Video Signal Format	NTSC, PAL switchable	
Power Source	Rechargeable Battery (DB-60) x 1, AC Adapter (AC-4c option), AAA Alkaline Batteries x 2, AAA Oxide Batteries x 2, AAA Nickel-Hydrogen Batteries x 2	
Battery Consumption 9	When CIPA-standard compliant DB-60 used: approx. 370 pictures When AAA alkaline batteries used: approx 45 pictures10	
Dimensions	107.0 mm x 58.0 mm x 25.0 mm (W x H x D); does not include protruding parts	
Weight	Camera: Approx. 168 g (excluding battery/SD memory card/strap); Accessories: Approx. 30 g (battery/strap)	
Operating temperature	0°C to 40°C	

- Maximum and minimum shutter speeds differ by shooting mode and flash mode.
- Image-quality modes that can be set differ depending on the image size.
- Simultaneous recording of a JPEG in Fine/Normal or Normal640 mode at the same size as the RAW image. DNG is a type of RAW image file format. It is a standard file format advocated by Adobe Systems.
- Estimated number of shot/time that can be recorded.
- Up to 90 min. or 4 GB can be recorded in one shot.
- DCF compliant; DPOF supported. DCF is an abbreviation for Design rule for Camera File system standardized by JEITA. (Full compatibility between devices not guaranteed.)
- With Flash off.
- Mass storage supports Windows Me/2000/XP/Vista and Mac OS 9.0 to 9.2.2/Mac OS X 10.1.2 to 10.4.9.
- The numbers of photos that can be taken were measured using conditions compliant with the CIPA standard. Actual number of photos that can be taken will differ greatly depending on conditions of use.
- AAA alkaline dry-cell batteries made by Matsushita Battery Industrial Co., Ltd. were used



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GR DIGITAL II Optional Accessories

Accessory Name		
Tele conversion lens	GT-1	Soft case
Mini external viewfinder	GV-2	Neck strap
Soft case (for GV-2)	GC-2	Neck strap
External viewfinder	GV-1	Cable switch
Wide conversion lens (21mm)	GW-1	Rechargeable lithium-ion battery
Hood and adapter (for GW-1, GT-1)	GH-1	Battery charger
AC adapter	AC-4c	

- * Vignetting in viewfinder may increase with use of external viewfinder, wide conversion lens or hood.
- * Internal flash cannot be used with wide conversion lens or hood.

GR DIGITAL II Softwares

	Windows Vista	Windows XP	Windows 2000 / Me
1. RICOH Gate La	○	○	○
2. Irodio Photo & Video Studio	○	○	○
3. Acrobat Reader	○	○	○
4. Ridoc Desk Navigator Lt	○	○	○

* Image editing software for Macintosh not included.

GR DIGITAL II Softwares Operating Environment

	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 Space	Windows 2000 / Me / XP: 256MB or more Windows Vista: 512MB or more
Hard Disk Space	Windows 2000 / Me / XP / Vista: 160MB or more (during installation)
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 GR DIGITAL II to a PC. Serial connection is unavailable.
- * Valid for systems with preinstalled OS and USB port.
- * GR DIGITAL II is possible to use for Mac OS 9.0 to 9.2.2 and Mac OS X 10.1.2 to 10.4.9 by Mass Storage Connection.

Number of Images That Can be Stored in Internal Memory / SD Memory Card

Mode	Quality	Pixels	Internal Memory	256MB	512MB	1GB	2GB	4GB	8GB
Still	RAW	3648 x 2736	2 images	13 images	26 images	51 images	105 images	207 images	423 images
		F 3648 x 2736	14 images	62 images	126 images	243 images	495 images	973 images	1989 images
	N	3648 x 2736	24 images	109 images	219 images	422 images	853 images	1676 images	3426 images
		RAW 3648 x 2432	3 images	15 images	30 images	58 images	118 images	232 images	475 images
	F	3648 x 2432	15 images	70 images	142 images	273 images	553 images	1087 images	2222 images
		N 3648 x 2432	27 images	122 images	247 images	476 images	960 images	1895 images	3854 images
	RAW	2736 x 2736	3 images	17 images	35 images	68 images	140 images	274 images	561 images
		F 2736 x 2736	18 images	83 images	168 images	323 images	653 images	1284 images	2624 images
	N	2736 x 2736	32 images	144 images	291 images	559 images	1138 images	2235 images	4568 images
		N 3264 x 2448	30 images	135 images	273 images	525 images	1059 images	2080 images	4253 images
	N	2592 x 1944	47 images	213 images	430 images	828 images	1661 images	3261 images	6667 images
		N 2048 x 1536	73 images	331 images	667 images	1285 images	2560 images	5027 images	10277 images
N	1280 x 960	133 images	599 images	1208 images	2323 images	4726 images	9282 images	18973 images	
	N 640 x 480	497 images	2227 images	4488 images	8632 images	15359 images	30159 images	61643 images	
Text	3648 x 2736	24 images	109 images	219 images	422 images	853 images	1676 images	3426 images	
	2048 x 1536	73 images	331 images	667 images	1285 images	2560 images	5027 images	10277 images	
Motion	640 x 480 (15frames/sec.)	1'22"	67"	12'19"	23'42"	48'13"	99'8"	193'30"	
	640 x 480 (30frames/sec.)	41"	35"	6'14"	11'59"	24'23"	50'10"	97'55"	
	320 x 240 (15frames/sec.)	2'40"	1'157"	2'45"	4'6'19"	9'4'11"	19'3'41"	37'8'2"	
	320 x 240 (30frames/sec.)	1'22"	67"	12'19"	23'42"	48'13"	99'8"	193'30"	

- * Number of recordable pictures and recordable time may vary depending on the manufacturer of an SD memory card and shooting conditions.
- * Average number of images and time.

For more information, visit:

http://www.ricoh.com/r_dc



1/40sec, F2.4, ISO100, WB:AUTO, Noise Reduction: ON, Full size photo; no trimming



1sec, F5, ISO100, EV-0.8, WB:MANUAL, Noise Reduction: ON, Full size photo; no trimming



With use of 21mm wide conversion lens (GW-1), 1/5sec, F5, ISO100, EV-0.5, WB:MANUAL, Full size photo; no trimming



1/6sec, F2.4, ISO100, EV-0.7, WB:MANUAL, Full size photo; no trimming



1/8sec, F2.4, ISO100, EV-0.7, WB:MANUAL, Noise Reduction: ON, Full size photo; no trimming



1/80sec, F2.4, ISO100, EV-0.7, WB:AUTO, Full size photo; no trimming

Successor to the original concept, and its maturation as an instrument

A camera that delivers the intended results. A camera that's advanced yet simple to operate, reliable and precision built.

RICOH's GR DIGITAL has evolved to let you pursue your own ideals.

Now comes GR DIGITAL II. Boasting its predecessors' superior imagery and sharpness that only the Ricoh GR Lens can provide, yet achieving even higher image quality.

In an amazingly compact, slim body — robustly constructed of lightweight diecast magnesium — the GR DIGITAL II encompasses enhanced expressive capability and adds new functions, along with improved operability that responds almost instantaneously to your commands.

It's the kind of camera that urges you to use it, time and time again.

GR DIGITAL II

GR DIGITAL

Like-minded in the pursuit of quality — to exploit GR Lens performance to its fullest.



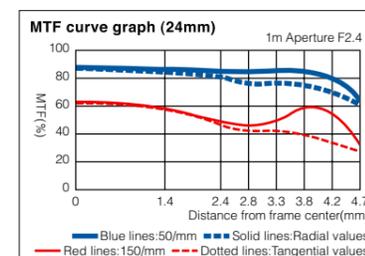
Every innovation designed to bring out the most from the GR Lens, with an added depth of features to realize the greatest GR ever.

Nothing stimulates the photographer's sensibilities more than encounters with a great lens. Since the era of film cameras, the superior optical performance and sharpness of Ricoh's GR lenses can boast a host of major achievements.

To extract every iota of a lens' expressive capability demands ongoing refinements for the entire system, and this has been the aim of GR DIGITAL evolution. Now, Ricoh brings together its unchanging concept of what a lens should do, along with a host of new shooting functions, to create GR DIGITAL II.

GR Lens: superb definition with low distortion, all the way to the picture edge

The key criteria for lens performance, sharpness and low distortion, have been pursued without compromise. The widely acclaimed F2.4/f=5.9mm lens (35mm equivalent: 28mm) features improvements to compensate for various types of aberrations and vignetting on the subject's periphery — areas that are particularly problematic — to provide outstanding sharpness and high contrast all the way to the corners of the image, as the data in the lens' MTF curve demonstrate. This achieves high image quality, particularly when taking pan-focus shots. Other refinements include reduction in mechanical noise from the AF drive. The GR Lens is the story of constant efforts at improvement. The more the user understands photography, the more he or she will want to put this lens to use.



New 5-group 6-element retractable lens — the fusion of superb optical technology and mechanical engineering

The brightness of a F2.4 aperture and various aberration compensation. The superb optical performance of the GR Lens is achieved by a 5-group, 6-element lens that incorporates 3 groups with 2 aspherical elements and high-precision assembly techniques for sharper images in a more compact size. Use of high-quality optical glass and special lens polishing and multi-coating technologies ensure natural colour renditions, overall sharpness and excellent contrast characteristics. The design of an original "retracting lens system" allows for the lens to draw level lens into a thin, 25mm camera body. In the course of the lens retracting a portion of the optical system withdraws from above the optical axis, thereby realizing extremely high precision and control of the lens unit — a successful merger of exceptional optical performance within a slim body form you can carry with you anywhere.

Seven-blade shutter for nearly round lens performance

One of the most pleasing effects in photography is the appearance of "out-of-focus" images — the areas in the picture around the main subject that can be distant and as such are not in sharp focus. This is heavily dependent on the quality and shape of the shutter. The design of the almost perfectly circular, high-quality 7-blade shutter is precisely controlled for correct exposures, from F2.4 to F11* in 1/3EV — even when

closed down the light point is nearly circular — making for striking blur tones and photographic expression.

* When shooting in the Auto mode, an ND filter activates at stops above f7.1.

10.01 megapixel, 1/1.75" CCD brings out of the best of the GR Lens' characteristics

The GR Lens takes pride in the capability of its high-definition lens to render subjects with fine detail and true-to-life reproduction. To bring out its optimal performance, GR DIGITAL II incorporates a 1/1.75" CCD with 10.01 megapixels, retaining definition, S/N ratio and dynamic range at previously high levels. Coupled with the GR Engine II, the expression of delicate lighting and image processing algorithm achieve superb picture quality, with reduced noise and fine gradations.

Advanced image engine GR ENGINE II with reduced noise

Along with the GR Lens, another source of the high picture quality is the GR Engine. Continuing with the sharp definition, natural noise reduction and faithful color reproduction of its predecessor model, the GR Digital II incorporates a new GR Engine II that boasts further advancements, like significant improvements in noise processing capabilities at high sensitivity settings. This ensures you can shoot at high sensitivity settings without concerns over loss of definition or chroma levels, thus expanding the range of shooting versatility. In addition to ISO 80-1600 sensitivity, a new AUTO-HI setting is provided.

User-selectable noise reduction function

In scenes where noise is likely to be a problem, GR DIGITAL II gives you the option of activating image noise reduction processing. When you want to enhance expression of tightly shaded areas or take time exposures, this ensures excellent resolution, tone characteristics and color saturation, while achieving dramatic reduction in noise. * Cannot be utilized when set in the Scene Modes

Robust, lightweight magnesium body

Camera exterior is light yet sturdy, thanks to use of diecast magnesium. While just 25mm thin, the high-durability body stands up to twists, pressure and shocks. Antimagnetic shielding also suppresses electromagnetism that can cause generation of noise. In terms of every detail — reliability, high-class impression, portability and image quality — Ricoh has aimed at creating the ultimate in terms of well balanced body design.



Every innovation designed to bring out the most from the GR Lens, the added depth of features realizes the greatest GR yet.



GR DIGITAL II brings together a host of features and functions for outstanding operability. Take its customizable, user-friendly Fn (Function) control, for example. Just hold it and shoot, and you can actually feel how it has evolved into a “tool for expression.”

Electronic leveler ensures level shots while viewing through the LCD monitor

One of the key fundamentals of using a wide-angle lens is maintaining a horizontal image, and this is particularly relevant from the standpoint of the low-distortion GR Lens. That's why GR DIGITAL II incorporates an electronic leveler, which lets you view the horizontal indicator in the LCD monitor display to ensure that shots are aligned horizontally. This also functions for vertical shots. When looking through the external viewfinder or in situations when the LCD monitor cannot be seen well, the camera emits an audible signal to indicate horizontal alignment.



* The horizontal indicator can be displayed as a mark shown on the LCD monitor, or with a histogram.
* If the camera is tilted too far to left/right or forward/backwards, the electronic leveler may not function.

Depth of field indicator function

In the Manual exposure and Aperture priority modes, when the Focus mode is set to Snap, Manual or Infinity, a display at the side of the monitor indicates the depth of field. This is especially convenient to match the aperture and focal length, as it helps to keep the subject in sharp focus when timing is important and you are shooting without AF.

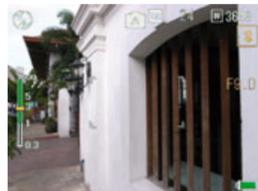


Image taken in the Snap mode, Aperture priority mode, at F9.0.

Metering mode and Exposure control mode

The GR features three metering modes: multi-light metering, in 256 increments; center-weighted metering; and spot metering. Exposure can be controlled by Programmed AE, Aperture-priority AE or Manual exposure. This unmatched flexibility to respond to lighting conditions lets you give full expression based on your experience and instincts. Exposure range can be set from +2.0 to -2.0 (in 1/3 EV steps), or auto bracketing ±0.5EV/0.3EV.

Five focus modes

The AF is provided with two modes. The 9-point multiple AF automatically detects subjects, so that shots remain focused even if the subject is off center. This makes it especially effective for unanticipated, spontaneous photo opportunities. The Spot AF focuses on a single object in the center of the LCD monitor. In addition, Manual, Snap (fixed at 2.5 meters) and Infinity settings are provided.

Macro photography

Macro enables shooting from a distance of just 1.5cm from the subject. Since the AF target can be moved up or down and to the left or right, the macro focus will function smoothly even while the camera is set on a tripod.

RAW mode achieves speed and high image quality

In addition to JPEG (Fine/Normal), images can be stored in RAW mode. In the RAW setting, buffer memory size is boosted so that as soon as the first shot is taken, the camera is instantly enabled for the next shot. You can toggle between JPEG and RAW modes instantly using the Fn control.

Aspect ratio (horizontal-vertical ratio) with 1:1 square mode

GR DIGITAL II not only frames images in 4:3 and 3:2 aspect ratios, but also features a square setting that emulates 6 X 6 medium format cameras — giving you the means of creating distinctive square shots. And these square images can also be captured in RAW mode.



1/40sec, F2.4, ISO100, EV-1.5, WB:AUTO, Noise Reduction: ON, Full size photo; no trimming

Monochrome (TE*) setting

In addition to the regular monochrome setting, a monochrome (TE*) setting provides distinctive shots in a choice of sepia, red, green, blue and purple. Tone, contrast and sharpness are also adjustable, for additional creative control over each shot. * Toning Effect

Instantly recordable My Setting modes (1,2) enables switching to preset preferences

The My Setting modes let you input and store the shooting styles you use most frequently and instantly activate them by selecting My Setting on the mode dial. This is a great convenience for matching up shooting styles and scenes. Up to two settings can be registered in memory.



Mode dial

Presettable functions:

- Shooting mode • Aperture in aperture priority mode • Focus position during manual focus • Macro • Flash mode • Self-Timer • DISP mode • Image quality • size • Focus • Metering method • Continuous shooting • Image settings • Auto bracketing • Date entry • Exposure compensation • White balance • ISO sensitivity • Text density • Frame advance rate • Function button setting • Leveler setting • Shooting icon enlargement

ADJ. lever permits seamless operation from adjustments to confirmation

For quicker, more positive operation, after you've completed all settings and adjustments you can reconfirm them at a push of the ADJ. lever, without having to remove your finger from the lever.

AE lock

You've just spotted a great scene. After determining the correct exposure for the subject, you want to shoot a scene using a different approach. At times like this, the AE Lock on the GR DIGITAL II Fn (Function) button can be preset. When used in conjunction with the focus lock of the Shutter button, you can easily operate AF and AE independently.

Fn (Function) button summons functions at a touch

Use the Fn (Function) button to register functions you often require, and you can switch to them instantly, a feature that greatly simplifies operations, and ensures you can capture those not-to-be-missed shots.

Items programmable in Fn button

- AF ↔ MF (combined with AF lock) • Snap ↔ AF • AE lock • JPEG ⇒ RAW • Color ⇒ B/W • Color ⇒ B/W (TE) • Various settings menu (exposure compensation, white balance, ISO, picture quality, focus, picture settings, metering, continuous shooting, auto bracketing, flash adjustment compensation)

Automatic image rotation

The camera always knows which way is “up,” so shots are viewable in the picture display as-is, whether you grip the camera horizontally or vertically.

* The automatic image rotation does not function if the camera is tilted too far forward or backward to display the just-shot image, or when holding the camera upside down while viewing images stored in memory.

Data display mode for effective shooting

When in the synchro monitor off mode, which turns off the LCD monitor display, it is possible to display only data settings for a few seconds (with

the DATA DISPLAY MODE set at ON), when turning the dial to perform settings. This is convenient when making changes to the settings while using the external viewfinder, or when changing settings in such shooting modes as aperture priority or manual.

Scene mode

Three Scene modes — Movie, Skew Correction and Text modes are provided. With Text mode, you can use the camera to record memos. The Movie mode records up to 640x400 pixels at 30 frames per second.

Large 2.7" 230,000 pixel LCD monitor with high resolution and wide viewing angle

Despite the compact body, GR DIGITAL II boasts a full-size 2.7" LCD monitor with approximately 230,000 pixels giving sharply defined detail. Its 160-degree viewing angle permits clear visibility from low or high perspectives.

Manually operated pop-up flash

To flash or not to flash? To respect the user's intentions, GR DIGITAL II incorporates a built-in manual pop-up flash, activated by a manual slide switch so there's no chance of it going off unintentionally. A flash compensation function (±2.0EV in 0.3EV steps) independent from the AE lets you reduce or boost flash intensity for just the right effect.

Extended battery life, 370 shots per charge

The DB-60 rechargeable battery provides approximately 370* shots. Conventional AAA alkaline batteries, available everywhere, will give up to 45* shots, so you need never worry about running out of juice. For added versatility, the camera can also be powered by AC adapter, Oxyride and rechargeable nickel hydrate AAA batteries.

* CIPA standard

Accessories for expanded enjoyment

Available options include the GW-1 wide conversion lens (21mm equiv.); GV-1 21-28mm compatible viewfinder; GT-1 tele conversion lens (40mm equiv.); GV-2 minifinder for 28mm; GC-2 soft case that accommodates the camera while GV-2 is attached, and other items for extra versatility and convenience.

GR DIGITAL II evolution goes on. Downloadable function-expansion firmware

As new upgrades to support camera functions are introduced, Ricoh periodically supplies firmware that can be downloaded free of charge. Visit the Ricoh Web site for the newest upgrades at:

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

