

RICOH

G700

The water, dust, and shock resistant digital camera



Water, dust,
and shock
resistance

Chemical
resistance

28^{mm}
140^{mm}
22^{mm} (option)

Internal
flash
10^m

Electronic
level

SD WORM
Password
lock

*All lens focal lengths in this catalog are converted into 35 mm camera equivalents.

On-the-job specs.

The G700 was created for the demanding professional.

To the water, dust, and shock resistance necessary for hard work-site use, chemical resistance has now been added.

The wide range of functions includes a CALS mode useful for electronic data submission and a password camera lock capability.

Attaining new levels of reliability, this true tool represents the crystallization of Ricoh technology.



TOUGH

The toughness critical for difficult work sites

NEW

Shock resistance

Enhanced shock resistance tough enough to pass a 2.0 m drop test

Despite its small size and light weight, the G700 has strengthened glass at the lens front surface and body protectors added at strategic points. This toughness enabled it to withstand 2.0 m drops in 26 positions (6 surfaces, 8 corners, and 12 edges) in testing conforming to US Department of Defense "MIL Standard 810F." Furthermore, it also passes this test with the power on.

NEW

Water resistance

IPX8 equivalent water resistance enables two hours of use at 5 m depth

Water resistance is rated at JIS/IEC waterproof protection grade 8 so the G700 can handle two hours of underwater photography at a depth of 5 m. In addition to use at wet sites, the G700 can also be used for shooting in the rain, and it can be washed in water if it gets dirty.

Dust and cold resistance

Toughness for the most demanding sites

Dust resistance, at JIS/IEC dustproof protection grade 6, guards against infiltration by dust and sand. The G700 can also shoot in cold environments, with cold resistance able to handle temperatures down to -10°C.

NEW

Chemical resistance

Sodium hypochlorite and ethanol disinfection OK

The G700 can be disinfected with ethanol or sodium hypochlorite, which has been approved as a food additive disinfectant. So it can be safely used in medical facilities and production facilities.

NEW

Extended operation time for up to about 360 pictures

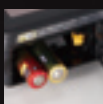
Approximately 360 pictures* can be taken with the rechargeable battery provided. The dissipation of battery power can be reduced by specifying synchro monitor mode, which turns the picture display off when the camera is not being operated.

*Shooting capacity was measured using CIPA-standard parameters. This is only an estimate and performance may vary depending on usage conditions.

AAA Alkaline batteries can also be used

In addition to the high-capacity rechargeable battery included, the G700 can also be powered with readily available AAA-size alkaline batteries. With these batteries, approximately 40 shots* can be taken. So you can quickly recover from the battery depletion that can occur in periods of long use.

*Shooting capacity was measured using CIPA-standard parameters. This is only an estimate and performance may vary depending on usage conditions.



Filter use possible

You can also attach commercially available 37 mm diameter filters, which are effective for preventing lens scratching and condensation.

NEW

Wide and long neck strap



With the wide, durable neck strap, you can suspend the camera diagonally, and it can also be suspended vertically from the neck to allow for easy storage in a breast pocket.

Operation controls easy to use even wearing gloves

Featuring relatively large buttons, the operation controls are arranged in a simple design that enables easy operation even with gloves on.

*Simulated image.

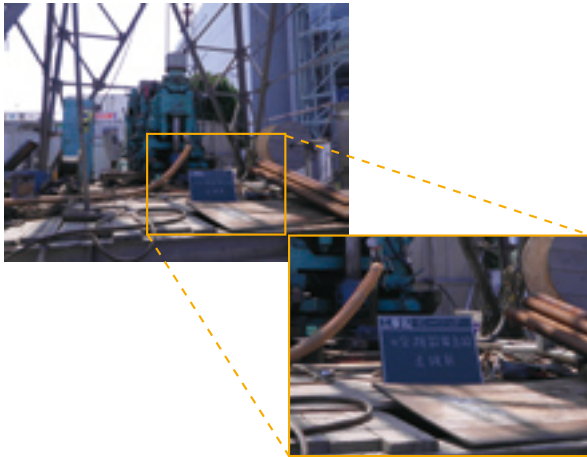


SMART

Smart functions support shooting and post-shooting operations

NEW 12.1 million effective pixels for more precise photo reproduction

Sharply reproduce worksite conditions and even words written on a blackboard. Even after cropping, images remain crisp and vivid.



Built-in flash reaches up to 10 m

For reliable photography even in dark sites such as tunnel interiors, the G700 has a built-in flash with a range of 10 m for wide-angle and 6.2 m for telephoto. With high-sensitivity ISO 3200, the G700 can also shoot in situations where flash cannot be used.



Flash range of
5m

*Taken with
Caplio 400G wide



Manual flash in
10m
mode

*Taken with G700



ISO
3200

*Taken with G700
with flash off

Accessory shoe

The accessory shoe (conforms to JIS B7101) makes it possible to shoot with commercially available flash units*. This further expands the scenes which can be photographed.



*A flash with both a slave flash function and a pre-flash support function should be used. It is not possible to use units without a spring or lock mechanism or units on which synchronization with the pre-flash cannot be cancelled. Furthermore, the accessory shoe does not support a synchronizer contact.

Mode dial for quick mode changes



With the mode dial you can easily switch between CALS mode, auto shooting mode, My Settings mode (for registration of frequently used shooting settings), and scene mode (firefighting, skew correction, etc.). In CALS mode, you can select from six picture size and quality settings ranging from "5M 4:3 F" to "VGA 4:3 F".

Firefighting mode

The focal length is fixed to 2.5 m and ISO sensitivity is raised to enable shooting of clear photographs in the difficult conditions for autofocus at the scene of a fire. Sharpness processing is also done to give the still images a sharper feel.

Adjust button

By just pressing the ADJ. (adjust) button, you can easily specify exposure compensation, ISO sensitivity, and other settings.



NEW Electronic vibration correction function

The G700 utilizes the new electronic vibration correction function that takes two exposures at high speed with the differences being calculated. It is a powerful tool when shooting in low light and when shooting telephoto.

Skew correction function

Rectangular objects photographed at an angle are corrected so they appear to have been shot squarely. The before-correction image is also recorded.



Before correction



After correction

SECURE

Security and PC-linkage functions for safe and certain photo management

NEW SD WORM (write once read many) memory card supported

The G700 supports the SanDisk Corporation SD WORM (write once read many) card. Since deletes, changes, and card initialization cannot be done, these cards can be used in place of film for original documents when recording police, fire department, and defense-related scenes where data reliability might be questioned. When stored under suitable conditions, the data can be preserved for about 100 years.





* SD WORM cards can be purchased from SanDisk Corporation agents that supply corporate customers.



NEW Camera lock functions for a variety of operation controls

By defining a password, you can lock the camera. In addition to locking the camera as a whole or internal memory playback, you can also limit use to SD WORM cards or just restrict setting changes. The locks and restrictions can be removed through password entry with a software keyboard or bar code.



-  Lock all camera operations
-  Lock internal memory playback
-  Restrict use to SD WORM cards
-  Restrict camera setting changes

NEW Camera memo functions make image management much easier

When an image is not enough, up to 20 text or voice information fields can be recorded as memos together with the photograph. Selection from multiple memos (up to 99 files) is possible, and memos can also be recorded in internal memory.



You can also view in the camera reference images (diagrams, etc.) that correspond to camera memos

*Simulated image.

NEW Bar code reader function useful for camera memo and password input

The reading of one and two dimensional bar codes is supported. The saving of bar codes as camera memos can be useful for freight management in logistics, prevention of patient data mix-ups in medical facilities, etc.



4961311010101
One dimensional bar code



two dimensional bar code

Bar code read with lens and data recorded in camera memo

Data written to image

Photo and bar code managed together

Image edit detection function increases photo credibility

The G700 has a high-accuracy image edit detection function to increase data reliability when digital photographs are submitted as evidence. The RSA encryption method is used to make it possible to detect editing with respect to the entire image. By loading the image onto a PC using the ECI software provided, it is possible to make highly accurate judgments on image edition.

PictBridge supported for direct printing

The G700 is compliant with the PictBridge industry standard for printing by connecting camera and printer. If you connect the G700 to a compatible printer, you can print directly without using a personal computer.



PictBridge

Form print function for easy printing in easy-to-use layouts

If you connect the G700 to a Ricoh-compatible printer, it is possible to print out images in easy-to-use form layouts. For details, please see the Ricoh website.

118.8mm(W) × 71.0mm(H) × 41.0mm(D)

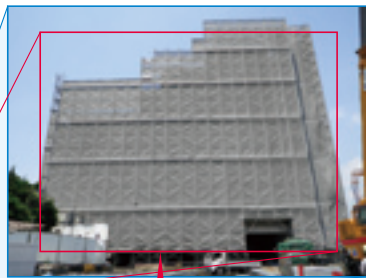


WIDE & MACRO

High-performance lens handles various situation

28-140 mm non-extending optical 5x zoom captures each subject as intended

The G700 uses a 28-140 mm 5x optical zoom lens. With the ability to take photographs across a wide range impossible for a standard 35 mm lens, the G700 is convenient for shooting indoors and at other sites where it is not practical to back up. It also easily handles telephoto shooting.



35mm

28mm

Even in confined space, take photographs with wide coverage of the subject



28mm

Zoom in to capture the subject from far away

140mm

Wide conversion lens (DW-5) <Option>



Now it is possible to shoot at an even wider 22 mm equivalent. With the slim design, you can shoot without being bothered by lens bulk even when the conversion lens is attached.



22mm

*When the flash is used with the wide conversion lens attached, parts of the image may be dark because the light does not reach the edge of the frame.

Even surface texture is visible: 1 cm macro shooting

With 1 cm wide-angle macro photography* you can capture small screws and scratches and even vividly reproduce material textures. In addition, the flash can be used to illuminate subjects as close as 20 cm.



*The macro shooting wide-angle setting is $f=5.9\text{mm}$ at a 33 mm focal length (35 mm equivalent). At maximum telephoto you can shoot as close as 15 cm.

USEFUL

Operation controls offer outstanding ease of use

NEW

Boasting a wide viewing angle, the 3.0-inch 920,000-dot picture display is easy-to-see and easy-to-use even outdoors

The G700 has a large 3.0-inch 920,000-dot high-definition picture display. The wide angle and high contrast give high visibility even outdoors.



*Simulated image.

NEW

Electronic level enables level photography



For level shooting, an electronic level is provided as a standard feature. It enables you to hold the camera in an accurate level position when shooting subjects such as buildings and interiors. *Simulated image.

Date display when camera is turned on

Date information is indispensable when creating photographic records. By displaying the date from the time the camera is turned on until the shutter release button is pressed, this function helps prevent time data errors caused by incorrect date/time settings. *Simulated image.





G700



< Accessories included >

- ① AV Cable
- ② USB Cable (Mini B Cable)
- ③ CD-ROM
- ④ Rechargeable Battery
- ⑤ Battery Charger
- ⑥ Neck Strap
- Instruction Manual(Camera User Guide)*Warranty Card
- *Software manual supplied on CD-ROM



< Optional Accessories >

- ① Soft Case(SC-700)
- ② Wide Conversion Lens(DW-5)

■G700 Major Specifications

Item	Specifications
No. of effective pixels (camera)	Approx. 12.10 million effective pixels
Image Sensor	1/2.3" CCD (Approx. 12.40 total million pixels)
Lens	Focal Length
	5.0 mm to 25 mm (equivalent to 28 mm to 140 mm on a 35-mm camera)
F-aperture	F3.5 to F5.5
	Normal shooting: Approx. 30 cm to ∞ (Wide-angle) or 50 cm to ∞ (Telephoto) (from the front of the lens)
Shooting Distance	Macro shooting: Approx. 1 cm to ∞ (Wide-angle)*1, 15 cm to ∞ (Telephoto) or 1 cm to ∞ (Zoom macro mode) (from the front of the lens)
	11 elements in 9 groups plus 1 prism
Filter size	37mm
Zoom Magnification	Optical zoom at 5.0x (focal length equivalent to 28 mm to 140 mm on a 35 mm camera)
	Digital zoom at 4.0x, up to 20.0x (560 mm equivalent) in combination with optical zoom
	Auto resize zoom at approx. 6.3x (VGA image)*2, up to 31.5x (882 mm equivalent) in combination with optical zoom
Focus Modes	Multi AF (CCD method)/Spot AF (CCD method)/MF/Snap/∞ (with AF Auxiliary Light)
Blur Reduction	Digital image stabilizer
Shutter Speed*3	Still Image
	8, 4, 2, 1 to 1/1500 seconds
Exposure Control	Movie
	1/30 to 1/10000 seconds
Exposure Metering Mode	Multi Light Metering (256 segments)/Center-weighted Light Metering/Spot Metering (TTL-CCD Metering and AE lock possible)
	Program AE
Exposure Compensation	Manual exposure compensation (+2.0 to -2.0 EV in 1/3 EV Steps), Auto bracket function (-0.5 EV, ±0, +0.5 EV)
ISO Sensitivity (Standard Output Sensitivity)	AUTO, ISO64 / ISO100 / ISO200 / ISO400 / ISO800 / ISO1600 / ISO3200
White Balance Mode	Auto/Outdoors/Cloudy/Incandescent 1/Incandescent 2/Fluorescent/Manual/Ring Light, White balance bracket function
Flash	Flash Mode
	Auto flash (fires automatically in low-light conditions and when the subject is backlit)/Anti Red-eye/Flash On/FLASH ON (10M)/Flash Synchro/Flash Off
Built-in flash Range	Approx. 20 cm to 10.0 m (Wide-angle), approx. 40 cm to 6.2 m (Telephoto) (ISO AUTO/ISO 1600, from the front of the lens)
Picture Display	3.0" Transmissive LCD, approx. 920,000 dots
Shooting Mode	Auto shooting mode/Scene mode (High Sens/Firefighting/Skew Correct Mode/Text Mode/Zoom Macro/Movie)/My settings mode/CALS mode
Picture Quality Mode*4	F (Fine), N (Normal)
Number of Recorded Pixels	Still Image
	[4 : 3] 4000 × 3000, 2592 × 1944, 2048 × 1536, 1600 × 1200, 1280 × 960, 640 × 480
	[3 : 2] 3984 × 2656
Movie	1280 × 720, 640 × 480, 320 × 240
	4000 × 3000, 2048 × 1536
Recording Media	SD memory card (3.3V 256MB, 512MB, 1GB, 2GB), SDHC memory card (up to 32 GB), SD WORM card*5 (128MB, 1GB), Internal Memory (approx. 103 MB)
Picture/Time Storage Capacity*6 (Internal approx. 103MB)	Still image
	4000 × 3000 F: 22 pictures N: 38 pictures, 3984 × 2656 F: 25, 2592 × 1944 F: 45, 2048 × 1536 N: 72, 1600 × 1200 F: 116, 1280 × 960 F: 141 N: 265, 640 × 480 F: 509
Recording Format	Movie*7
	1280 × 720 20 seconds, 640 × 480 58 seconds, 320 × 240 2 minutes 22 seconds
File Format	Still Image
	JPEG (Exif Ver. 2.21)*8
Format Supported	Text
	JPEG (Exif Ver. 2.21)*8
Bar Codes Supported	Linear
	EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (with add-ons), Interleaved 2 of 5, CODEBAR (NW-7), CODE 39, CODE 93, CODE 128 TYPE C, GS1-128 (EAN-128), and RSS (GS1 DataBar)
Other Major Shooting Functions	Matrix
	QR Code, Micro QR Code, DataMatrix(ECC200), PDF417, Micro PDF417, MaxiCode, EAN-UCC Composite(GS1 DataBar Composite)
Other Major Playback Functions	Continuous mode, Self-timer (operation time: approx. 10 seconds, approx. 2 seconds), Interval shooting (shooting interval: 5 seconds to 3 hours, in increments of 5 seconds)*9, Histogram display, Grid guide display
Interface	Thumbnail view, Enlarged view (maximum 16x), Resize, Contrast Correction
Power Supply	USB2.0 (High-Speed USB) Mini-B, AV output, Mass storage-compatible*10
Battery life*11	Rechargeable Battery (DB-65) x1, AC adapter (AC-5c option), AAA Alkaline Battery x 2, AAA Nickel-Hydrogen Battery x 2
	Based on CIPA standard, DB-65: approx. 360 shots AAA alkaline: 40 shots*12
Dimensions (W × H × D)	118.8 mm × 71.0 mm × 41.0 mm, 32.0 mm (D) at thinnest, excluding projections
Weight	Approx. 280 g (excluding battery, SD memory card, and strap), Approx. 310 g (including memory card and supplied battery)
Water Resistance/Dust Resistance	JIS/IEC waterproof grade 8, shooting to a water depth of approx. 5 m*13
Chemical Resistance	JIS/IEC dustproof grade 6
Operating Temperature	External cleaning possible with ethanol and hypochlorous acid disinfectants
	-10 °C to 40 °C

- *1: The macro shooting wide-angle setting is f=5.9mm at a 33 mm focal length (35 mm equivalent).
- *2: Image size is VGA.
- *3: The upper and lower limits differ for each shooting mode and flash mode.
- *4: The picture quality mode that can be set varies depending on the image size.
- *5: SD WORM cards can be purchased from SanDisk Corporation agents that supply corporate customers.
- *6: The estimated number of pictures that can be recorded or the estimated recording time.
- *7: The maximum movie length that can be recorded at one time is either 90 minutes or 4 GB. When shooting movies of 1280 × 720 size, the use of an SD/SDHC memory card with an SD speed class of Class 6 or higher is recommended.
- *8: Compatible with DCF and DPOF. DCF is the abbreviation for "Design rule for Camera File system," a J/EITA standard (Full compatibility with other devices is not guaranteed).
- *9: When the flash is set to [Flash Off].
- *10: Mass storage mode is supported by Windows 2000, Windows XP, Windows Vista, Windows 7, Mac OS 9.0-9.2.2, and Mac OS X 10.1.2-10.6.3.
- *11: The number of remaining shots is based on the CIPA standard and may vary depending on usage conditions. This is for reference only.
- *12: When using the AAA Alkaline batteries manufactured by Panasonic.
- *13: At a water depth of up to 5 m, a maximum of approximately two hours of shooting is possible. Optimal shooting may not be possible depending on the water environment.

■G700 Optional Accessories

Product Name	Model Name
Wide Conversion Lens	DW-5
Rechargeable Battery	DB-65
Battery Charger	BJ-6
Soft Case	SC-700

■G700 Software

	Windows® 7	Windows Vista®	Windows® XP	Windows® 2000
1. DL-10	○	○	○	○
2. MediaBrowser	○	○	○	×
3. Adobe Reader®	○	○	○	○
4. ListEditor	○	○	○	○
5. ME1	○	○	○	○
6. EC1	○	○	○	○
7. EX1	○	○	○	○

■G700 System Requirements

	Windows®
Operating Systems Supported	Windows® 2000 Professional Service Pack 4, Windows® XP Home Edition Service Pack 3/Professional Service Pack 3, Windows Vista® Service Pack 2, Windows® 7 (32- and 64-bit)
CPU	Pentium® IV: 1.6 GHz or faster, Pentium® M: 1.4 GHz or faster, Core™ 2 Duo: 1.5 GHz or faster
Memory	Windows® 2000/Windows® XP: 512 MB or more, Windows Vista®/Windows® 7: 1 GB or more
Hard drive space required for installation	300 MB or more
Display Resolution	1024 × 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

- *The CD-ROM supports Japanese, English, French and German. Operations are not guaranteed on operating systems with other languages.
- *64-bit Windows Vista is not supported.
- *If your computer has an upgraded OS, the USB function may not work normally, so it cannot be supported.
- *The provided software may not operate properly if changes are made to the operating system, such as with patches and service package releases.
- *The camera does not support connection to a USB port added by using an extension function (PCI bus or other).
- *If used in conjunction with a hub or other USB devices, the software may not work properly.
- *When dealing with movies and other large files, a larger memory environment is recommended.
- *MediaBrowser is not supported under Windows 2000.

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

Mode	Image Size	Internal Memory (103MB)	1GB	2GB	4GB	8GB	16GB	32GB
Still	4000×3000(F)	22	210	404	810	1,630	3,283	6,534
	4000×3000(N)	38	365	701	1,403	2,824	5,688	11,320
	3984×2656(F)	25	238	457	914	1,840	3,706	7,375
	2592×1944(F)	45	433	826	1,653	3,227	6,701	13,336
	2048×1536(F)	72	683	1,311	2,623	5,281	10,635	21,164
	1600×1200(F)	116	1,102	2,080	4,162	8,377	16,889	33,571
	1280×960(F)	141	1,337	2,514	5,029	10,122	20,383	40,565
	1280×960(N)	265	2,514	4,641	9,284	18,687	37,631	74,890
	640×480(F)	509	4,834	8,620	17,243	34,705	69,887	152,941
	Movie	1280×720 30fps	20"	183"	373"	734"	1,494"	3,006"
640×480 30fps		58"	534"	1,087"	2,135"	4,344"	8,742"	17,536"
320×240 30fps		142"	1,294"	2,633"	5,170"	10,522"	21,170"	42,467"

- *The figures for storage capacity assume that no camera memo lists, voice memos, or other camera system files are stored in the internal memory or on an SD memory card.
- *The maximum recording time is the estimated total recording time.



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