

A Waterproof, Dustproof, Heavy-Duty Digital Camera





A Camera for the Hard-Working Professional



RICOH G900

A Camera for the Hard-Working Professional

Camera performance equal to the demands of the harshest worksite Х Vastly more efficient on-site information management

In addition to approximately 20 effective megapixels, 5x optical zoom, and the water-, dust-, and shock-resistance demanded of equipment used on construction worksites, the RICOH G900 offers an electronic survey slate and security features to meet the varied needs of the hard-working professional. With features for taking pictures securely and reliably and managing them efficiently, this work-site camera is sure to increase productivity.

Embedded Image Clips





Pictures can be described using embedded image clips. For example, you can write the location, photographer, measurements, and other information on a slate, photograph it, and then embed the photo in

Embedding image clips

size (large, medium, or small).



Position: Choose from positions 1) through 4.



*1 Rated for 2 hours continuous use at depths of up to 20m/66 ft, IPX8 water resistance (equivalent to JIS Class 8), IP6X dust resistance (equivalent to JIS Class 6).

*2 Measured according to RICOH's in-house version of the Pentagon MIL-Standard 810F Method 516.5-Shock drop test (a drop of 2.1 m/6.9 ft. onto a 5 cm/2 in. thick plywood surface while on)

*3 Measured according to in-house tests. *4 Resistant to ethanol, sodium hypochlorite, and liquid chlorine dioxide.



Tough

Tough enough for the roughest worksite



Tough body with heightened impact resistance passes the 2.1m drop test



Although it is light and compact, the RICOH G900 features a tempered front lens element and protection at key points, tough enough to withstand the Pentagon MIL-Standard 810F 2.1m (6.9ft) drop test on all 26 sides (6 faces, 8 corners, and 12 edges) even when the power is on.

IPX 8 water resistance, good to depths of 20m for up to 2 hours



resistance, the RICOH G900 can take photographs for 2 hours at depths of 20m (66ft). Use it on wet worksites or in the rain or the dirt can be rinsed off.

With Class 8 JIS/IEC water



Class 6 JIS/IEC dust resistance keeps out dust and sand. Able to withstand temperatures as cold as -10°C (14°F), the RICOH G900 can be used in cold environments.







The RICOH G900 can be used with ethanol, sodium hypochlorite, and liquid chlorine dioxide disinfectants, allowing it to be used worry-free in medical facilities or on production lines.

Support for filters



Third-party 37mm filters can be attached to the lens to protect it from condensation and scratches.

Wide, long neck strap



Long enough to be worn across the chest, the strap is broad and rugged. Camera can also be hanged vertically as it can also be worn around the neck so that the camera can easily be placed in a breast pocket.

Easy to hold, easy to use



The large grip guides your fingers into a position where you can support the camera naturally. Additionally the mode dial and other controls are designed for ease of use with gloves.

Wide&Macro With 5× optical zoom, a lens that handles a range of subjects

Compose shots freely with 5× optical zoom

Featuring a 28–140mm lens with 5× optical zoom and a field of view wider than that of a typical 35 mm lens, the RICOH G900 is perfect for shooting indoors and in other locations where there is little room to step back, yet also takes telephoto shots in its stride.





Wide conversion lenses

Use a conversion lens for wider shots at a focal length equivalent to 22mm. When attached, conversion lenses provide JIS Class 7 water resistance and are so slim that the extra length is almost unnoticeable.



When used with a wide conversion lens, the flash wi not illuminate objects at the edges of the frame and parts of any shots taken with the flash will be dark

Smart

New image processing engine and back-illuminated CMOS sensor

Take clear shots of dimly-lit worksites. 20 effective megapixels ensures that details show clearly even after pictures are cropped. The latest image sensor and image processing engine can handle a wide variety of scenes, from long shots to close-ups, even under at night or under

low light.





(simulation)

Flash: AUTO ISO: AUTO (125-1600) shutter speed:1/20 sec; aperture: F3.5

Flash: OFF ISO: 6400 shutter speed:1/20 sec; aperture: F3.5

Internal memory approx.6.5GB of image storage

The camera features internal memory with space enough for 856* images. You can keep shooting without worrying even when the memory card is full. * At settings of 5184 × 3888 (L) ***

Wide-angle 3.0-inch, 1,040k-dot monitor is easy to read, indoors and out

The large, high-resolution (3.0", aspect ratio of 3:2, approximately 1,040k-dot) monitor features a cover with an anti-reflective (AR) coating that makes it easy to view even outdoors in bright sunlight. The new outdoor view feature lets



you quickly adjust brightness in response to ambient lighting conditions for an even better viewing experience.

Note: Composite image; actual display not shown

ADJ button

The ADJ button provides quick access to camera settings, including exposure compensation and ISO sensitivity.

Note: The ADJ button functions as a camera memo button when camera mo settings are enabled.

Select modes quickly and easily using the mode dial

For example, selecting Digital Microscope mode, which illuminates the ring lights for photos at distances as close as 1cm,



is as simple as rotating the mode dial. Frequently-used settings can be assigned to the U1 and U2 positions on the mode dial for quick recall.

Recall saved settings at the twist of a dial

Saved settings for different scenes can be recalled instantly imply by rotating the mode dial to U1 or U2.

A high-performance camera for your worksite

NEW Adjustable ring light

The lens is surrounded by a six-LED ring light. You can choose which LEDs light and adjust their brightness to get clear shots showing fine details such as the model numbers on small parts or scratches in walls or floors.





Left ring lights used for a photo taken in macro mode at a distance of 1cm (0.4in)

NEW 4K resolution for sharper movies

Shoot movies in 4K (frame size 3840 × 2160 pixels, 30 fps) for high-resolution footage that gives you an overall view of a big construction site, for example, or helps you grasp the relative positions of various objects.

Note: The camera can record up to approximately 25 minutes or 4GB of footage per shot

NEW Outline fonts

The camera uses clear-rendering outline fonts for composite images created using electronic survey slates.

Tweaks for on-site photography and photo management

Button hold options prevent unintended operation

To avoid unintended operation such as accidental menu display or the camera turning on during transport, use the menus to reduce the response speed of the power and menu buttons.

Folder-creation options

Users have a choice of three options for naming the folders used to store images: standard, user-selected, or by date.

Display folder at startup

While starting up, the camera displays the current folder together with the images it contains.

Display date at startup

The RICOH G900 displays the date from startup until the shutter release button is pressed, helping you catch errors in the camera clock before they are recorded with your pictures.

Pitch and roll indicators help keep the camera level

The camera's built-in electronic level with pitch and roll indicators can be used to keep the camera level.

Rename files

Users can select the four-letter prefix used to name files. Files can be named accoxo the photographer or departmental rules to help simplify image management.

Versatile

Varied functions for a variety of situations

Varied functions for a variety of situations

NEW Equipped with GPS and an electronic compass

The onboard GPS and electronic compass record the current location and heading with each picture taken for highly accurate positioning no matter what the time or place. The RICOH G900 supports GPS, the Japanese Quasi-Zenith Satellite System (QZSS, also known as Michibiki), and GLONASS, can use signals from Satellite-Based Augmentation Systems (SBAS), and can record track log entries once a second for both photos and movies. Set the camera clock using GPS or use the "GPS memory" button to record the locations of selected targets.

Compare images with "Watermark Options

Use existing pictures as a template when composing new photos. Template transparency can be selected from 20, 40, 60, and 80 percent, or photos with the same composition as the template can be compared side-by-side. One way in which this feature can be used is for before and after shots on construction sites.





Skew correction

Select "Skew Correct Mode" to reduce the effects of perspective when photographing signs, business cards, and other rectangular subjects from an angle. The camera also records the uncorrected photos. Users have the option of displaying guides to help correct skew.



NEW Haze penetration

Image processing is used to reduce the effects of mist or haze

Use focus stacking to create images where every part of the

Interval-timer photography

The camera takes photos at preset intervals. Choose from intervals of 10 seconds to 99 minutes (interval-timer photography) or 1, 5, 10, 30, or 60 minutes (time-lapse movies).

Firefighting mode

Fires are a challenge for autofocus. Firefighting mode fixes focus at 2.5m and heightens ISO sensitivity and sharpness.

Support for FlashAir[™] memory cards

Using a FlashAir card* (a SD memory card with built-in wireless LAN), you can upload pictures from the worksite to a distant office or the like. The card's wireless LAN can now be enabled or disabled from the camera, helping reduce the drain on the battery.

Secure

Create images that can be trusted; prevent leaks

Password protection restricts access to a variety of camera functions

Password-protect the entire camera or internal memory or require a password only for USB access or to modify camera settings. Access can be granted by scanning a password barcode or entering the password using the camera's onscreen keyboard.

Create up to two passwords

Create separate user and administrator passwords. The administrator can restrict access to functions used on-site, for example to prevent unintended changes to camera settings when the camera is used in the workplace.

		Administrator
r t y u i o p	Camera access	•
fghjkl	Menu access	•
c v b n m 🗵	Viewing the contents of internal memory	•
→	USB connection	•
ry dialog	Note: When both adminis supplied, the administrat	

	Administrator	User
amera access	•	٠
lenu access	•	٠
iewing the contents f internal memory	•	٠
ISB connection	•	٠
e: When both adminis plied, the administrat		

After correction (without guides

for sharper images in ports or among the mountains.

NEW Depth-of-field composites (focus stacking)

subject, from front to back, is in focus.

* An SD-UWA-series W-04 Toshiba FlashAir™ SDHC/SDXC memory card.

Password protection for memory cards

Two types of SD memory cards can be password protected: SDHC and SDXC. Password-protecting memory cards prevents images falling into the wrong hands should the card be lost or stolen.

Expanded Settings		4/5
🗖 PW Validity Period	Off	
Set/Edit SD Card PW		D
C Card PW Unlock Time		
A Image Clip		
M6 Board		
Image Composite Sett.		
Edit Detection		
MINUExit		

Memory card password-entry dialog

Note: Do not forget your password. Password-protection cannot be removed by support personnel Note: Password protection has been tested and approved for use with Panasonic, Kioxia, and SanDisk SDHC and SDXC memory cards of up to 256 GB capacity

Smooth

Automatize post-shooting sorting

Reducing the work for sorting files with Camera memos

Camera memos: You can select pre-generated camera memos listing job information or other data to be added to pictures as they are taken.

Hard-to-identify images can be clearly labeled with written descriptions in the form of camera memos saved simultaneously with the picture and consisting of up to 100 items of 999 lines each, each with descriptions of up to 128 characters. Choose from multiple camera memo lists, which can be stored in the camera's internal memory.

Note: Camera memo lists can be created using the supplied LE2 software.

Versatile functions help you manage and sort images after shooting

Here are some features that will greatly reduce your post-shooting workload when it comes to such tasks as data management and manually sorting images by viewing them one at a time.

Categorize images automatically

Import memo data and use it to categorize images automatically, reducing the work involved in sorting files after shooting. Note: Requires the supplied DL-20 and EX2 software



Sorting and searching are a snap

Rename files automatically based on memo contents to streamline sort and search operations. Files can also be renamed based on information read from barcodes. Note: Requires the supplied EX2 software



Barcodes help with memo and password entry

The RICOH G900 reads linear and matrix barcodes. Barcodes can be stored as camera memos that can help with such tasks as managing goods for distribution and preventing patient mix-ups at medical institutions.

Data

images

Note: Reading barcodes requires a camera memo list





Matrix barcode

Camera uses lens to read barcode and acquire camera memo data

appended to data management

q w e

a s

Password ent



nemo selection dialog



Image playback Note: Composite image; actual display not show

Camera memos make generating reports a snap

It's easy to generate handy reports with memos. No need to write them out by hand-simply print them and use them in statements or reports.



Note: Requires the supplied ME1 software.

Stamp memo data on pictures

Camera memo data can be stamped on images so that their content can be verified as text.



Note: Composite image; actual display not shown

Link related images with image clips

For example, you can clip shots of survey data onto worksite photos so that the relationship between the photos and the survey data is clear when the photos are viewed. Users can choose a clip size that suits their needs; options range from 3M to VGA.

Note: Requires the supplied ME2 software







Add camera memos to movies

Simplify movie file management with camera memos that can be viewed using the supplied ME2 software. The technique for adding memos to movies is as same as for photos.

Add temporary voice memos to pictures

Up to 30 seconds of voice data can be recorded when a photo is taken. Use this feature to add temporary memos giving onsite survey data and other up-to-the-minute information.



RICOH G900

Accessories included USB Cable
USB Cable
USB Power Adapter
Rechargeable Battery
Power Plug
Battery Charger
Neck Strap Macro Stand Instruction Manual (Camera User Guide) Warranty Card

Principal Specifications for the New RICOH G900 Digital Camera

Product Nar	me	RICOH G 900			
		RICOH lens, 11 elements in 9 groups (5 aspherical elements)			
Lens	Focal Length (in 35 mm format equivalent)	5 - 25 mm (Approx. 28 - 140 mm)			
	Maximum Aperture	F3.5(W) - F5.5(T)			
	Optical Zoom	5X			
Zoom	Digital Zoom	approx. 8.1X			
	Intelligent Zoom	approx. 7X at 10M, approx. 40.5X at 640 (including optical zoom)			
Motion Blur	Still	Pixel Track SR, Hi-sensitivity anti-shake mode (Digital SR)			
Reduction	Movie	Movie shake reduction mode (Movie SR, Movie SR+)			
	Туре	9-point AF, Spot AF, Auto tracking AF			
Focus	Focus Range (From lens face)	Standard. Job Market (16, 16, 16, 16, 16, 16, 16, 16, 16, 16,			
	Effective pixels	Approx. 20 megapixels			
Image Sens	or	1/2.3" CMOS			
Number of Recorded pixels	Still	Size:L(20M), M(10M), S(5M), XS(3M), 2M, 1M, VGA •() in aspect 4:3. •2M and 1M are available only in the CALS mode. Aspect:4:3, 3:2, 1:1 • In the CALS mode, the aspect ratio is fixed to 4:3.			
P	Movie	4K, 1920, 1280			
Sensitivity (Standard Output Sensitivity)	AUTO, Manual (ISO 125 - 25600)			
White Balar		Auto, Daylight, Shade, Cloudy, Tungsten light, Fluorescent light (D:Daylight Color N:Daylight White, W:White Light, L:Warm White), Ring light, Manual			
Disalar	Туре	3.0" LCD, approx. 1040 K dots, AR Coating (Cover only)			
Display	Adjustments	Brightness, Outdoor View Setting:±2 Steps			
Exposure	Metering System	Multi-segment metering, Center-weighted metering, Spot metering			
Control	Exposure Compensation	± 2 EV (1/3 EV steps)			
Scene modes		Auto Picture, Program, HDR, Movie, High Speed Movie, Digital Microscope, Interval Shot, Interval Movie, Surf & Snow, Digital SR, Report, watermark, Firefighting, Skew Correct, Text, Zoom Macro, Haze removal, Depth of field composition,			
Playback modes		Sildeshow, Image Rotation, Small Face Filter, Ink Rubbing Filter, Digital Filter(B&W/ Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature), HDR Filter, Movie Edit, Red-eye Edit, Resize, Cropping, Image Copy, Protect, Start-up Screen, Recover File, Auto Image Rotation, Skew Correct			
Shutter Spe	ed	1/4000 - 1/4 sec. (Mechanical and electronic shutter)			
Built-in	Modes	Flash-on and Flash-off modes. "Red-eye" compensation function employs a pre-discharge.			
flash	Flash Range	Wide:approx. 0.2 - 5.5m / 0.66 - 18 ft. (ISO Auto) Tele:approx. 0.2 - 3.5m / 0.66 - 11 ft. (ISO Auto)			
Drive Modes		One shot, Self-timer, Continuous Shooting, Burst Shooting, M Continuous, S Continuous, Remote Control, Auto Bracketing			
Storage Me	dia	Built-in Memory (approx. 6.5GB), SD/SDHC/SDXC Memory Card,FlashAir™ Card			
D		Rechargeable Battery DB-110			
Power Source	Battery life	Still*1:approx. 340 shots (Rechargeable Battery) Playback*2:approx. 260 min. (Rechargeable Battery)			
GPS		GPS, GLONASS, QZSS (Michibiki) + SBAS GPS display mode:LATI.ON, UTM, MGRS GPS logaing, GPS lock, GPS time adjustment, GPS data imprint, UTC data imprint			
Electronic Compass		Compass heading:Cardinal, Degrees, Cardinal/Degrees Declination, Compass data imprint			
Interfaces		USB 3.0 (Type-C), HDMI output terminal (Type D)			
Water proof / Dustproof		Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities			
Dimensions		Approx. 118.2 (W) x 65.5 (H) x 33.1 (D)mm/4.7 (W) x 2.6 (H) x 1.3 (D) inches (including lens depth)			
Weight		Approx. 252g / 8.9 oz. (Included dedicated battery and SD memory card), Approx. 225g / 7.9 oz. (Body only)			
Included Accessories		Rechargeable Battery DB-110, Battery Charger BJ-11, USB Power Adapter, Power Plug, USB Cable I-USB 173, Neck Strap, Macro Stand			
Languages		English, French, Germany, Spanish, Portuguese, Italy, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian, Thai, Korean, Simplified Chinese, Traditional Chinese			



Actual performance may vary depending on operating conditions. *2 According to the result of RICOH in-house testing.



https://industry.ricoh.com/en/dc/

For more information, visit:

• The SDXC logo is trademark of SD-3C, LLC. • This product supports PRINT Image Matching III. PRINT Image Matching-enabled digital still cameras, printers, and software help photographers produce images that are more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant. • All copyrights regarding PRINT Image Matching, PRINT Image Matching II, and PRINT Image Matching III are reserved by Seiko Epson Corporation. • Windows and Windows Server are registered trademarks of Microsoft Corporation in the United States and other countries. • HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of the Uncensing LLC in the United States and/or other countries. • FlashAir[™] is a trademark of Toshiba Memory Corporation. • This product is compatible with the "Michibiki" Quasi-Zenith Satellite System. • USB Type-C is a trademark of the USB Implementers Forum. • All other product/brand/corporate names are trademarks or registered trademarks of their respective companies.

RICOH



Optional Accessories for the RICOH G900

•RICOH SC-900 Soft Case A sleeve-style camera case that allows the camera to be readied easily and used quickly.

•RICOH O-CC 174 Protector Jacket

A silicone jacket that protects the camera from dirt and scratches.

RICOH G900 Optional Accessories

Product Name	Model Name	
Soft Case	RICOH SC-900	
Protector Jacket	RICOH O-CC 174	
Wide Conversion	DW-5	
Remote Control Waterproof	O-RC1	
Rechargeable Battery	DB-110	
Battery Charger	BJ-11	

RICOH G 900 Software

DL-20	Copy pictures to a computer		
LE2	Create camera memo lists		
ME2	View pictures, edit camera memos, and print reports		
EX2	Rename files based on camera memo data and export camera memo data		

RICOH G900 System Requirements

	Windows®		
	Windows® 10 (32bit/64bit)		
	Windows® 8.1 (32 bit/ 64 bit)		
	Windows® 7 SP 1(32 bit/64 bit)		
Operating Systems Supported	Windows Server® 2019(64bit)		
Supponed	Windows Server® 2016(64bit)		
	Windows Server® 2012 R2(64bit)		
	Windows Server® 2008 R2(64bit)		

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

				Internal Memory (approx. 6.5GB)	16 GB
Still Image*1	5184×3888	L	**	1478	3233
	3648×2736	М	**	2916	6379
	2592 × 1944	S	**	5394	11801
	2048 × 1536	XS	**	8299	18155
	1600×1200*2	2 M	**	11988	26225
	1280 × 960 *2	1 M	**	14386	31470
	640×480	VGA	**	53949	118013
Movie	3840(3840x2160)	30 fps		00:09:26	00:20:44
	1920(1920x1080)	30 fps		00:47:36	01:44:15
	1280(1280x720)	30 fps		01:18:41	02:52:14

Note: The maximum recording time is the estimated total recording time. *1 In aspect 4:3 *2 In the CALS mode

