5× optical zoom (28 – 140 mm)

High-resolution CMOS sensor with approximately 16 million pixels

Full HD movie support
For the uncompromising professional: a camera water-, dust-, and impact-resistant enough for the toughest worksite, yet capable of capturing the finest details with an effective pixel count of 16 million. A camera with a memo feature to help manage and sort your images and strong security to keep your pictures private. The RICOH G800. The perfect tool has arrived, packed with features for the worksite.
TOUGH Tough enough for the roughest worksite

IMPACT RESISTANT

Tough body with heightened impact resistance passes the 2.0 m drop test

Although light and compact, the RICOH G800 features a tempered front lens element and protection at key points, tough enough to withstand the Pentagon MIL Standard 810F 2.0 meter drop test on all 26 surfaces (6 sides, 8 corners, and 12 edges) even when on.

WATERPROOF

IPX 8 water resistance, good to depths of 5 m for up to 2 hours

With Class 8 JIS/IEC water resistance, the RICOH G800 can take photographs for 2 hours at depths of 5 meters. Use it on wet worksites or in the rain—just rinse the dirt off afterwards.

DUST AND IMPACT-RESISTANT

Toughness that shines on harsh jobs

Class 6 JIS/IEC dust resistance keeps out the dust and sand. Able to withstand temperatures as low as −10 °C, the RICOH G800 can be used in cold environments.

Chemical-Resistant

Sodium hypochlorite, ethanol or liquid chlorine dioxide resistance

Sodium hypochlorite, ethanol or liquid chlorine dioxide can be used in Addition to water wash to keep the camera cleaned and ready for use under any conditions.

Long-lasting battery, good for around 400 shots

The supplied rechargeable battery can be used for about 400 shots* without recharging. A sync mode that turns the monitor off when it is not in use further reduces the drain on the battery.

* Measured according to CIPA guidelines. Actual endurance varies widely with shooting conditions.

Also takes AAA alkaline batteries

In place of the supplied high-capacity rechargeable battery, the RICOH G800 can also be used with widely-available AAA alkaline batteries, which have enough power for about 40 shots.* Use AAA batteries as backups for long photo sessions or in case the main battery runs out.

* Measured according to CIPA guidelines. Actual endurance varies widely with shooting conditions.

Attach filters

Third-party filters 37 mm in diameter can be used to protect the lens from scratches and condensation. Use polarizing filters to reduce reflections.

Wide, long neck strap

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

Use without taking off your gloves

Designed for ease of use in gloves, the RICOH G800 features large switches and a simplified control layout.

Note: Composite image; actual display not shown.
A high-performance camera for your worksite

**SMART**

**Back-illuminated CMOS sensor takes bright photos in dim light**
Take clear shots of dimly-lit worksites or writing on a blackboard. An effective pixel count of 16 million ensures that details show clearly even after pictures are cropped.

**Accessory shoe**
To shoot a wider range of subjects, attach a third-party flash unit* to the JIS 87101-compliant accessory shoe.
*Use a unit that supports slave and pre-flash functions. Units without spring mechanisms or safety locks or that require pre-flash support for flash control cannot be used. Sync terminals are not supported.

**High-capacity 8 GB built-in memory**
Keep taking photos even without a memory card.
Note: Built-in memory is also used to store system files; the actual capacity available to the user is about 6.5 GB.

**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.

**WIDE & CLOSE**
High-performance lens handles a wide range of subjects

**Get the shots you want with a non-extending, 28–140 mm lens and 5× optical zoom**
Featuring a 28–140 mm lens with 5× optical zoom and a field of view wider than that of a typical 35 mm lens, the RICOH G800 is perfect for shooting indoors and in other locations where there is little room to back up, yet also takes telephoto shots in its stride.

**Optional DW-5 wide conversion lens**
Use the DW-5 for wider shots at a focal length equivalent to 22 mm. When attached, it provides JIS Class 7 water resistance and is so slim that the extra length is almost unnoticeable.

**Blur reduction**
The RICOH G800 features a new type of blur reduction that quickly calculates the difference between two exposures for outstanding performance in dim lighting and at high zoom ratios.

**Full HD for smooth movie recording**
Full HD (1920 × 1080, 30 fps) recording ensures high-quality, smooth-playing movies. Movie files are recorded in H.264 format.
Note: Movies may be up to 4 GB in size or 29 minutes in length.

**Wide-angle 3.0-inch, 920k-dot picture display is easy to read, indoors and out**
The large, high-resolution 3.0-inch/920-k dot picture display offers both high contrast and a wide viewing angle for unsurpassed outdoor viewing. Keeping the DISP button pressed for a few seconds selects maximum brightness, helping you deal with quick changes in ambient lighting.
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 memo settings are enabled.

**Capture weave and texture from as close as 1 cm**
The camera’s wide-angle macro feature gets you as close as 1 cm* to capture the weave of cloth or small scratches on a screw. Flash photography is available down to distances of 20 cm.
*15 cm at maximum zoom.
High sensitivity for dark locations

With a range of 10 m (wide angle) to 6.2 m (maximum zoom), the built-in flash ensures that you can photograph indoors and in tunnels, corridors, and other dark locations with confidence. And with extreme ISO sensitivities as high as 25600, you can still get the shot even if you can’t use the flash.

Compare shots taken with the flash in FLASH ON (10M) mode

G700

RICOH G800

Extreme Sensitivity: ISO 25600

Actual lighting (artist’s conception) ISO 25600 (taken with the RICOH G800 in Flash Off mode)

Act in advance to prevent mistakes on location

The RICOH G800 is loaded with features that prevent all kinds of mistakes on location.

Simplified settings

Load camera settings files to ensure that menu settings are always right for the scene. Settings files can also be exported for use in other RICOH G800 cameras.

Display the date at start up

The date is important for photos that will be used in record-keeping. The RICOH G800 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.

Note: Composite image; actual display not shown.

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 straighten the camera before shooting, ensuring precision even where footing is poor.

Note: Composite image; actual display not shown.

CALS mode handles all your reporting needs

The RICOH G800 offers convenient modes conforming to a variety of electronic submission guidelines, including those proposed by the Japanese Ministry of Land, Infrastructure, Transport and Tourism.* Choose from image quality and size combinations ranging from 16M 4:3F to VGA 4:3N.

* A pixel count sufficient to legibly render writing on a blackboard (about 1 million).

Handling unusual jobs

The RICOH G800 helps the job go smoother even at fires and other unusual worksites.

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. One way in which this feature can be used is for before and after shots on construction sites.

Firefighting mode

Fires are a challenge for autofocus. To ensure clear shots, firefighting mode fixes focus at 2.5 m and heightens ISO sensitivity and sharpness.

Skew correction

Select “Skew Correct Mode” to reduce the effects of perspective when photographing rectangular subjects from an angle. The camera also records the uncorrected photos.

Upload photos to your smartphone, hassle-free

An Eye-Fi card with built-in wireless LAN can be used for hassle-free upload to smartphones or other devices. Choose the destination, select pictures, and choose from 2 resize options for upload.

Note: For more information on Eye-Fi cards, visit the Eye-Fi website at http://www.eyefi.com/.

Never miss a shot no matter what the subject

Choose from 3 burst modes for subjects that are in motion or to photograph moments that pass too quickly to be seen by the naked eye.

Continuous Mode

The camera takes pictures while the shutter release button is pressed.

S-Cont (Stream Continuous)

The camera shoots up to 16 or 25 frames over the space of about 2 seconds, starting when the shutter release button is pressed all the way down, and records the shots in a single image.

M-Cont (Memory-Reversal Continuous)

The camera shoots while the shutter release button is pressed, but records only the last 2 seconds (16 or 25 frames). The frames are recorded as a single image.
Automatize post-shooting sorting

Camera memos: image management made easy

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 20 items, each with descriptions of up to 128 characters. Up to 99 different memos can be added to camera memo lists—which can be stored in the camera’s internal memory—and selected as desired. In camera memo Mode 3 you can limit your choice of descriptions according to the item selected.

Camera Memos

Image files contain areas reserved for metadata that can be used to store notes pertaining to the picture. The user creates a camera memo list consisting “items” (identifiers), each with its own “description” (contents), and uploads it to the camera. Memos can then be added to pictures to make them easier to identify and classify.

Note: Camera memo lists can be created using the supplied List Editor 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-10 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 ME1 for Client software.

■ Barcodes help with memo and password entry

The RICOH G800 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.

■ 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 in three locations on the corners and edges of the image so that its content can be verified at a glance.

■ Clip images onto other images

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.

Note: Requires the supplied ME1 software.

■ Add camera memos to movies

Simplify movie file management with camera memos that can be viewed using the supplied ME1 software.

■ Add temporary voice memos to pictures

Up to 8 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 new information. This function can be assigned to a shortcut key for quick access.

Note: Requires the supplied DL-10 software.
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 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.

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.

The RICOH G800 is equipped with extremely accurate edit detection that makes digital images submitted as evidence more likely to be trusted. RSA encryption enables edit detection for entire images, which can be imported to the supplied EC1 software for a highly accurate determination of whether or not the image has been tampered with.

A digital signature is embedded in an image taken in edit detection mode.

Changes to the image, such as retouching or changing the date of recording, create inconsistencies in the digital signature.

The supplied software inspects the signature for consistency to determine whether or not the image has been modified.
## Principal Specifications for the New RICOH G800 Digital Camera

### Lens
- **Focal Length:** 6.0 mm to 25 mm (equivalent to 28 mm to 140 mm on a 35 mm camera)
- **Aperture:** 2.8 to 5.7 (W) to 3.8 to 6.5 (T)
- **Minimum Focal Length:** 6 mm (W) to 25 mm (T)
- **Zoom Magnification:** Optical zoom at 5.0 ×, Digital zoom at 4.0 ×, Auto resize zoom at approx. 7.2 × (VGA image)

### Image Sensor
- **Type:** CMOS (1/2.3"")
- **Effective Pixels:** 10.6 million pixels
- **Operating Temperature:** –10 °C to 40 °C
- **Operating Humidity:** 90% or less

### Exposure Control
- **Manual Exposure Compensation:** ±2.0 EV in 1/3 EV Steps
- **Program AE:** Exposure compensation 0.0 to +2.0 EV in 1/3 EV Steps

### Flash
- **Mode:** Red-eye/Flash On/FLASH ON (10M)/Flash Synchro./Flash Off
- **Range:** Approx. 20 cm to 10.0 m (Wide-angle), approx. 40 cm to 6.2 m (Telephoto)

### Video/Still Image Recording Media
- **Files:** SD, SDHC, and SDXC memory cards (256 GB max.)
- **Still Image:** JPEG (Exif ver2.3)
- **Movie:** MOV (Images: MPEG-4 AVC/H.264; Audio: Linear PCM)

### Movie Functions
- **Frame Rate:** 30 fps (1944 N), 30 fps (1536 N), 30 fps (1280 N), 30 fps (960 N), 30 fps (640 N)

### Image Size
- **Width:** 1920 × 1080 pixels
- **Height:** 1080 pixels

### Memory Card (1080/1920) Storage Capacity

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of Images</th>
<th>Approx. Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1080</td>
<td>2038</td>
<td>1649 × 1080</td>
</tr>
<tr>
<td>1920</td>
<td>1019</td>
<td>1649 × 1920</td>
</tr>
</tbody>
</table>

### Optional Accessories
- **Wide Conversion Lens (60mm F2.8) (WCL-11)**
- **3X Tele Converter (TC-300D) (WCL-30)**
- **16GB Memory Card (DCB-16G) (WDC-16)**
- **USB Cable (Mini B Cable) (WDC-1)**
- **Charging AC Adapter (DB-65) (WPS-1)**
- **Software Kit**
  - 1080/1920 Image Matching/Screen Capture Utility
  - 1080/1920 Image Matching/Screen Capture Utility

### Software

### System Requirements

<table>
<thead>
<tr>
<th>Mode</th>
<th>CPU</th>
<th>RAM</th>
<th>Hard Drive Space</th>
<th>Display Resolution</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of Images</th>
<th>Approx. Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1080</td>
<td>2038</td>
<td>1649 × 1080</td>
</tr>
<tr>
<td>1920</td>
<td>1019</td>
<td>1649 × 1920</td>
</tr>
</tbody>
</table>

* The maximum recording time is the estimated total recording time.