

RICOH
imagine. change.

RICOH WG-4 GPS
RICOH WG-4



An all-purpose, all-weather field camera

WG-4



WG-4

The WG-4 is the champion of active field photography.

A rugged body, waterproof to 14 meters and shockproof to 2 meters, triumphs in demanding outdoor conditions.

Waterproof
14m

Shockproof
2m

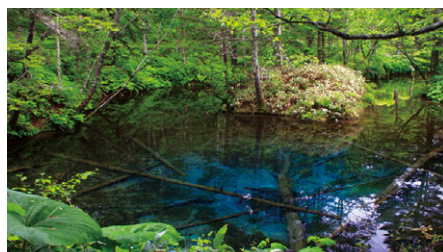
Coldproof
-10°C

Crushproof
100kgf

• Waterproof performance: equivalent to JIS Class 8 or IPX8 • Dustproof performance: equivalent to JIS Class 6 or IPX6 • Cold-weather performance: The number of recordable images decreases as the ambient temperature drops. • Shockproof performance: Measured under RICOH IMAGING in-house testing standards (against falls from heights of 2 meters, onto a surface of 5cm-thick plywood), conforming to Method 516.5-Shock of the MIL-Standard 810F. • Crushproof performance: Measured using RICOH IMAGING in-house testing standards.

Exceptional image quality for true-to-life expression of spectacular nature, nightscape and underwater scenes

The WG-4 comes equipped with a four-times optical zoom lens with an approx. 25mm wide-angle coverage (in the 35mm format) and approx. 16.0 effective megapixels. Coupled with the back-illuminated CMOS image sensor and high-performance imaging engine, it assures sharp, high-resolution images with a wide dynamic range and low noise. Exclusively designed for underwater photography, its new-generation Mermaid shooting mode optimizes color rendition and contrast while minimizing unwanted color cast. Land or sea, the WG-4 delivers beautiful, true-to-life images under all conditions.



Bright lens with F2.0 maximum aperture

Coupled with the image-sensor-shift-type SR (Shake Reduction) mechanism, the large-aperture zoom lens effectively minimizes camera shake and subject shake for blur-free images.

SR Shake Reduction

Secondary LCD monitor (WG-4 GPS model only)

With the built-in pressure gauge, this monitor indicates the air pressure or altitude.

The monitor image is illuminated with a backlight.

14.52
6 34m



WG-series-exclusive Digital Microscope mode to discover the wonders of a microscopic world

Six LED Macro Lights are positioned around the lens barrel to more brightly and uniformly illuminate the subject and eliminate shadows. You can easily observe the microscopic world, as if peeking into a microscope, and capture it in a still image or movie.

A macro stand is included for more stable macro shooting.



Image taken in Digital Microscope mode



Digital compass and GPS functions to facilitate outdoor shooting (WG-4 GPS model only)

The WG-4 GPS' s digital compass not only indicates the direction the lens is facing, but also displays the latitude, longitude and air pressure of a shooting location on the LCD monitor. Its state-of-the-art GPS module automatically geotags your shooting locations on captured images, making it possible to mark those locations on a map or follow your movements on a computer. You can easily retrace your photographic adventures at home.



Note: Geotag data may not be recorded if the GPS position data cannot be confirmed due to operating conditions.

Other features: Shutter Priority mode; USER mode; 16-scene Auto Picture mode; Face Detection AF & AE mode (32 faces max.); Auto Tracking AF mode; AF-assist light; D-range setting; Continuous shooting mode; Burst shooting mode; Smile Capture mode; Pet Detection mode; HDR mode; Small Face filter; Ink Rubbing filter; Digital filters; CLAS (Commerce at Light Speed) mode; High-sensitivity mode; Digital movie SR (Shake Reduction) mode; Full-HD movie recording; Interval shooting mode; Interval movie mode; High-speed camera function; Fast-forward movie function; Movie title insertion function; Auto bracketing mode; Magnified menu mode; Eye-Fi wireless LAN SD memory card compatibility; SDXC memory card compatibility; Waterproof remote control (optional accessory) compatibility

Discover the fun of hands-free shooting with optional WG-series accessories. Interval shooting and movie recording add new dimensions to your creativity.

O-CM1471 / WG Adhesive Mount

(Adhesive mount area: 43mm x 39mm)

For fixing the camera on a flat surface with double-faced adhesive tape



The optional WG Holder is required to fix the camera.

O-CM1473 / WG Suction Cup Mount

(Suction cup mount area: 80mm in diameter)

For fixing the camera by suction cup

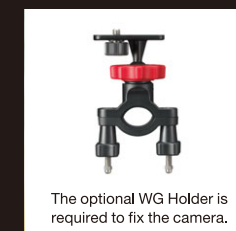


The optional WG Holder is required to fix the camera.

O-CM1472 / WG Handlebar Mount

(Usable pipe size: 20mm to 35mm in diameter)

For fixing the camera on bar-shaped objects, like handlebars, with a pinching action



The optional WG Holder is required to fix the camera.



WG Holder for all WG-series models

O-CH1470 WG Holder
An optional WG-series accessory for secure mounting of the camera



This WG holder can be used with all WG-series models.



PENTAX
WG-3 GPS/
WG-3



PENTAX
Optio WG-1 GPS/
Optio WG-1



PENTAX
Optio WG-2 GPS/
Optio WG-2



PENTAX
WG-10



RICOH
WG-20

Notes • With some objects and/or under certain conditions, it may not be possible to install these accessories, or they may be accidentally disconnected. Make sure that the camera is firmly secured before shooting. • The photos and installation schematics above are conceptual images used to demonstrate the function and application of WG-series accessories.

Other optional accessories for RICOH WG-4 and WG-4 GPS



Black

Blue

Silver

Lime Yellow

RICOH WG-4 GPS

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* The optional O-LA135 Lens Adapter is required to mount the wide conversion lens on the camera. The wide conversion lens cannot be used in the water.

Specifications

| | |
|--|---|
| Lens | RICOH lens, 9 elements in 7 groups (4 aspherical elements) 4.5 - 18 mm (approx. 25 - 100 mm in 35mm format equivalent), F2.0 (W) - F4.9 (T) 4× optical zoom, approx. 7.2× digital zoom, maximum approx. 28.8× intelligent zoom |
| Motion Blur Reduction | Still Sensor-shift (SR: Shake Reduction), Dual (SR & Pixel Track SR), High-sensitivity anti-shake mode (Digital SR) Movie Movie shake reduction mode (Movie SR) |
| Focus | AF Type 9-point AF, Spot AF, Auto tracking AF Focus range (from lens face) Standard: 0.4m - infinity (entire zoom range) Macro: 0.1 - 0.5m (entire zoom range) 1cm Macro: 0.01 - 0.3m (Mid-zoom to telephoto) Infinity-landscape, Pan Focus, Manual Focus: available |
| Face Detection | Face Detection AF&AE is available for all modes up to 32 faces. Smile Capture, Self-portrait Assist, Self-portrait Assist + Smile Capture, Blink Detection |
| Number of Effective Pixels | approx. 16 megapixels |
| Image Sensor | 1/2.3 inch CMOS |
| Number of Recorded Pixels | Still 16M, 12M(1:1), 12M(16:9), 7M, 5M(16:9), 5M, 4M(16:9), 3M, 2M(16:9), 1024, 640 Movie 1920, 1280 |
| Sensitivity (Standard Output Sensitivity) | Auto, Manual (ISO 125 - 6400) |

* Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary depending on operating conditions. ** According to the result of RICOH IMAGING in-house testing.

Still image and movie recording capacity (approximate data)

| Still image | 16M(4608×3456) | | | 12M(1:1)(3456×3456) 12M(16:9)(4608×2592) | | | 7M(3072×2304) | | | 5M(16:9)(3072×1728) 5M(2592×1944) | | | 4M(16:9)(2592×1464) | | | 3M(2048×1536) | | |
|-----------------|----------------|------|------|---|------|------|---------------|------|------|--------------------------------------|------|------|---------------------|------|-------|---------------|------|-------|
| Image size | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ |
| Internal memory | 13 | 23 | 39 | 15 | 31 | 47 | 23 | 44 | 71 | 28 | 54 | 78 | 37 | 71 | 101 | 44 | 87 | 128 |
| 4GB | 727 | 1284 | 2117 | 856 | 1676 | 2568 | 1284 | 2366 | 3771 | 1527 | 2943 | 4162 | 2011 | 3771 | 5486 | 2366 | 4642 | 6705 |
| 8GB | 1479 | 2613 | 4309 | 1742 | 3411 | 5226 | 2613 | 4816 | 7675 | 3109 | 5990 | 8470 | 4093 | 7675 | 11165 | 4816 | 9447 | 13646 |

| Still image | 2M(16:9)(1920×1080) | | | 1024(1024×768) | | | 640(640×480) | | |
|-----------------|---------------------|-------|-------|----------------|-------|-------|--------------|-------|-------|
| Image size | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ | ★★★ | ★★ | ★ |
| Internal memory | 64 | 117 | 172 | 154 | 263 | 344 | 320 | 497 | 560 |
| 4GB | 3448 | 6352 | 9284 | 8046 | 13411 | 17243 | 17243 | 24140 | 30175 |
| 8GB | 7018 | 12927 | 18894 | 16375 | 27292 | 35090 | 35090 | 49126 | 61407 |

| Movie | 1920(1920×1080) | | 1280(1280×720) | |
|-----------------|----------------------|--|----------------------|--|
| Frame rate | 30fps | | 60fps | |
| Internal memory | 26 sec. | | 34 sec. | |
| 4GB | 32 min, 16 sec. | | 32 min, 24 sec. | |
| 8GB | 1 hr, 5 min, 51 sec. | | 1 hr, 5 min, 59 sec. | |

Notes: • The still-image and movie recording capacities described above are approximate figures, and may differ from actual figures depending on the capacity of a memory card and the type of subject. • The maximum length of a continuously recorded movie clip is 25 minutes. *1 The recording capacity shows an approximate number of images recorded under CIPA-compliant testing standards (with LCD monitor on, with flash used for 50% of images, at 23°C). Actual performance may vary depending on operating conditions. *2 Based on the results of RICOH IMAGING in-house testing. *3 This software includes Media Impression 3.6.1 LE (Windows® version) and Media Impression 2.2 LE (Macintosh version) designed by ArcSoft, Inc.

About WG-4/WG-4 GPS's waterproof, dustproof and shockproof performance

Waterproof and dustproof performance: The WG-4 and WG-4 GPS are waterproof to a depth of 14 meters, and for up to two hours of continuous operation (equivalent to JIS Class 8) and dustproof (equivalent to JIS Class 6 or IP68). For underwater use, make sure to observe the following instructions to ensure proper operations. Precautions before underwater use: • A protective glass is placed in front of the lens to optimize waterproof performance. Always keep it clean, as stains, smudges and water drops can affect the quality of recorded images. • Always attach the optional floating wrist strap and wrap it around your wrist in case the camera sinks in the water. • Ensure that all foreign substances such as sand and dirt have been wiped away from the airtight seals installed on the battery/memory card and terminal covers and their contact surfaces. • Ensure that the airtight seals installed on the battery/memory card and terminal covers are free of cracks and chips. • Ensure that the battery/memory card and terminal covers are securely locked. • Avoid subjecting the camera to excessive shock, such as that created by plunging into the water. **Shockproof performance:** • The WG-4/WG-4 GPS's shockproof performance was measured using RICOH IMAGING in-house testing standards (against falls from a height of 2 meters, onto a surface of 5cm-thick plywood), conforming to Method 516.5-Shock of the MIL-Standard 810F. • The WG-4/WG-4 GPS's shockproof performance is not guaranteed when the camera experiences excessive shock (such as striking a hard object, or a drop from excessive height). • The WG-4/WG-4 GPS's shockproof performance does not guarantee that will remain damage- and trouble-free under all conditions.



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