



## **ADVANTAGES**

### The complete Outdoor camera

- Resistant to water, dust, sand, crash, cold and pressure
- Tough construction for shooting in demanding outdoor conditions
- Reliable waterproof construction to assure worry-free shooting at a depth of 14m
- Exceptional shockproof capability; it can withstand a fall from a height of 2m
- Crushproof to a pressure up to 100kg
- Coldproof down to -10°C.

#### **High Quality Photo & Video**

- 16 MP Back-illuminated CMOS sensor and Full HD Video
- Highest sensor resolution of its category 16 MP to offer extremely detailed pictures
- Back-illuminated CMOS sensor technology to capture light efficiently. This helps increase the sensitivity as well as optimize noise management
- Sensor-shift Shake Reduction
- Full HD video-recording (H.264) for high-quality movie clips and HDMI terminal

#### Versatile zoom lens

- 25mm Wide-angle and 4X Optical Zoom lens
- Equivalent 35mm: 25 100mm, large aperture F.2 (W)
- Wide-angle 4X zoom to accommodate a wide range of subjects and scenes from landscapes to fast-action sports events.
- Macro shooting down to just 1 cm from the subject to get spectacular images of flower or insect
- 6 LED placed around the lens to avoid shadows on macro photos

## Your best travel partner

- Innovative new features for trekking and nature observation
- Sophisticated GPS function records your position data during travelling, in order to show your friends and family where pictures were taken, on such websites as Google EarthTM or FlickrR.
- Electronic compass
- Barometer (information on the front display)

Dimensions: Approx. 125(W) × 64.5(H) × 32(D)mm

Weight: 216g body only

# **WG-4**GPS

## THE ADVENTURE-PROOF CAMERA

Colour Art. Code

08556 0027075275430 Blue Black 08541 0027075275324

EAN

## SUPPLIED ACCESSORIES

Rechargeable lithium-ion battery D-LI92 Power adapter D-PA135 USB cable I-USB7 Carabiner strap O-ST144 (for black and silver WG-4/GPS) Carabiner strap O-ST145 (for blue and lime yellow WG-4/GPS) Macro stand O-MS2 Software (CD-ROM) S-SW145

## OPTIONAL ACCESSORIES



WG Flat adhesive mount O-CM1471



WG Handle bar mount O-CM1472



WG Suction Cup mount O-CM1473



WG Holder O-CH1470



O-ST118 (Y&B)/103(OR)





Remote control O-RC1



Floating Strap



Black neoprene case

Rechargeable battery Li-lon D-LI92 - 39800 Charger kit K-BC92E - 39804 AC adapter K-AC117E - 38971 Video cable I-AVC7 - 39552 USB cable I-USB7 - 39551

Macro stand O-MS2 - 38642 Lens adapter O-LA135 - 38654 Wide conversion lens DW-5 - 171930

WG Repair parts 1 O-CM1474 (for O-CM1471) - 37034 WG repair parts 2 O-CM1475 (replacement nut for O-CM1471/72/73)- 37035 WG Repair parts 3 O-CM1476 (for O-CH1470) - 37036



## **TECHNICAL SPECIFICATIONS**

Number of pixels Approx. 16 megapixels - effective Total pixels Approx. 16.79 megapixels

1/2.3" CMOS Sensor size

 $\begin{array}{l} 16M(4608x3456), 12M(1:1)(3456x3456), 12M(16:9)(4608x\ 2592), 7M(3072x2304), \\ 5M(16:9)(3072x1728), 5M(2592x1944), 4M(16:9)(2592x1464), 3M(2048x1536), \\ 2M(16:9)(1920x1080), 1024(1024x768), 640(640\ x\ 480)\ (Unit:pixels) \end{array}$ Image size

Motion blur reduction Pixel Track SR, Hi-sensitivity anti-shake mode (Digital SR)

Sensitivity AUTO, Manual (ISO 125 - 6400)

Auto ISO range ISO 125-200, ISO 125-400, ISO 125-800, ISO 125-1600, ISO 125-3200, ISO 125-6400 \*Fixed at ISO 125-1600 in Green mode.

\*Fixed at ISO 125-1600 in Green mode.

\*Fixed at ISO 125-200, 125-400, 125-400, 125-1600 in Handheld Night Snap mode.

\*Fixed at ISO 125-6400 in Report mode.

★★★ Excellent, ★★ very good, ★ good Sensor-Shift-Type (SR: Shake Reduction), Dual (SR & Pixel Track SR), High-sensitivity anti-shake mode (Digital SR) Shake Reduction\*

ISO 125-6400 Auto ISO range for SR

LENS

Quality level

Focal length 4.5 - 18mm (approx. 25 - 100mm equivalent in 35mm format)

F2.0(W) - F4.9(T) Aperture Smallest aperture F11.3(W) - F18.5(T)

Construction RICOH lens. 9 elements in 7 groups (4 aspherical elements)

Optical zoom

Digital zoom\* Approx. 7,2X

Intelligent Zoom\* Approx. 30X at 7M, approx. 144X at 640 (including optical zoom)

SCREEN

Type 3.0" wide TFT color LCD, Wide viewing 170 angle degree, approx. 460K dots, AR Coating (LCD Cover only) and protection acrylic cover

Approx. 60 LCD frame rate

FILE FORMATS

Photo JPEG(conforms to Exif 2.3), conforms to DCF2.0, DPOF, PRINT Image Matching III

Audio Movie/ Underwater Movie/ Time-Lapse Movie/ 1cm-Macro Movie : 32KHz, 16bit, stereo High Speed Movie : 8KHz, 16bit, stereo

Compatible with SD/ SDHC/ SDXC and Eye-Fi memory cards External memory

Internal memory Approx. 70 MB

FOCUSING

TTL contrast detection auto focus system, 9-point AF, Spot AF, Auto tracking AF

Infinity-landscape, Pan Focus, Manual Focus Modes

Focus range

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)
Manual: 0.01m - infinity (Depends on the zooming steps)

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

Detect up to 1 pet's face(auto) Pet detection

Largest magnification Approx. 1.24x, at focus mode: 1cm macro, focal length 18mm, focusing distance 0.01m

AF Assist lamp Available

Macro light Available, 6 LED to assist close-up shooting

EXPOSURE CONTROL

Metering system Multi-segment metering, Center-weighted metering, Spot AE metering

1/4000 - 1/4sec.(Mechanical and electronic shutter) , 1/2000 - 4 sec.(Shutter Priority, Night Scene) Shutter speed

±2EV(1/3EV steps) Exposure compensation

FLASH

Flash-on and Flash-off modes. "Red-eye" compensation function employs a pre-discharge Flash modes

Wide:approx. 0.2 - 10.4m (ISO Auto) Tele:approx. 0.2 - 4.2m (ISO Auto)

\* Digital zoom and Intelligent Zoom are not available in Report mode

\*\* The maximum effect of Shake Reduction is equivalent to approx. 3 exposure steps (when the Sensor-Shift-Type SR is selected)

1920. 1280

Quality level Fixed

Movie SR mode Shake reduction

POWER SUPPLY

Rechargeable lithium-ion battery D-LI92

Still\*: approx. 240 shots (Rechargeable Lithium-ion battery)
Playback\*\*: approx. 200 min. (Rechargeable Lithium-ion battery)
Movie : Approx. 65 min. \*\* Capacity\*

\* 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.

Other Optional AC adapter kit

INTERFACES

NTSC/PAL Video output

USB2.0(Hi-Speed): USB/AV terminal, HDMI terminal (Type D. Micro port) USB

SHOOTING FEATURES

One shot, Self-timer, Continuous Shooting, Burst Shooting, Remote Control\*, Auto Bracketing Drive modes

Continuous shooting Approx. 1.5 fps, 16M(4:3): up to approx. 60 frames, approx. 1.7 fps, 12M(16:9): up to approx. 78 frames

Approx. 12 fps, 5M(4:3): up to 30 frames, approx. 14 fps, 4M(16:9): up to 30 frames. High speed cont. shooting

Auto Picture, Program, Shutter Priority, USER, HDR, Handheld Night Snap, Movie, Digital Microscope, Landscape, Flower, Portrait, Interval Shot, Underwater, Underwater, Underwater, Movie, Interval Movie, High Speed movie\*\*, "Irme-Lapse movie\*\*, 1cm-Macro Movie, Digital SR, Surf & Snow, Kids, Pet, Sport, Night Scene, Portrait, Frieworks, Food, Report\*, Green

Landscape, Portrait, Night Scene, Night Scene Portrait, Standard, Flower, Sport, Candlelight, Blue Sky, Sunset, Text, Group Photo, Pet, Portrait&Blue Sky, Portrait&Sunset, Portrait&Backlight Auto picture scene modes

Auto, Daylight, Shade,Tungsten light, Fluorescent light(D:Daylight Color, N:Daylight White, W:White Light), Manual

Available (Shadow/Highlight adjustment)

Noise reduction Automatically applied when the shutter speed is slower than 0.25 sec

OTHER FEATURES

World time Supported

Electronic level Available

\*Date Imprint Available(Date, Date & time, Time) (except Green)

Bright, Natural, Monochrome Image Tone

Text size Standard, Large

English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian Languages

Slideshow, Image Rotation, Small Face Filter, Ink Rubbing Filter, Collage, Digital Filter(B&W/Sepica, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature), HDR Filter, Original Frame, Movie Edit, Red-eye Edit, Resize, Cropping, Image Copy, Protect, DPOF, Start-up Screen Playback modes

One Shot, Index (6 thumbnails, 12 thumbnails), Enlargement (up to 10x, scroll available), Movie Playback, Histogram, Folder display, Select&Delete, Calendar, Changing Folder name Playback functions

Digital filters (playback)

B&W/Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature Movie edit functions\* Save as still image, Divide Movies, Adding title picture

Self-timer count 10 sec. 2 sec. Remote Control(immediately, 3 sec)

Start-up Time Approx. 1.8 sec Release Time Luc Approx. 0.016 sec

Water proof / Dustproof\* Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities

DIMENSIONS AND WEIGHT

Approx. 125(W) × 64.5(H) × 32(D)mm Dimensions

RICOH WG-4 GPS: With battery & SD card : Approx. 236g (loaded and ready) Body only : Approx. 216g Weight

SYSTEM REQUIREMENTS

Operating systems PC: Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 Mac: Mac OS X 10.6, 10.7, 10.8

SOFTWARE

Windows: MediaImpression 3.6.2 LE / Mac : MediaImpression 2.2 LE

ng functions and features are only for the RICOH WG-4 GPS : GPS function, Electronic Compa

\*Remote control compatible, receivers located in the front and back of the camera.

\*Recorded pixels fixed to 1280(1280x720), frame rate fixed to 1200ps for shooting, 30fps for playback in High Speed Movie mode.

\*Recorded pixels fixed to 46(460x360), frame rate fixed to 15fps for shooting, 240ps for playback in High Speed Movie mode.

\*\*Still Picture Saving during Movie Recording (Up to 3pl cont. movie recording, with focus fixed at the start of recording and nb of replets fixed to 15fps (Mit 69). The angle of view may change, depending on the number of recorded pixels for movies. The image may b depending on recording conditions.)

\*\*\*\*\*Unterproof (Up to 14m for 2hours), Shock proof (Up to 2.0m)

\*\*\*\*Operating Temperature -10°C to 40°C