



## 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 2.2m
- ✓ 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
- ✓ Upgraded underwater mode

### 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 Earth™ 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-5 GPS

## THE ADVENTURE-PROOF CAMERA

Colour	Art. Code	EAN
RICOH WG-5 GPS GUN METALLIC	04652	0027075293755
RICOH WG-5 GPS ORANGE	04663	0027075293861

## SUPPLIED ACCESSORIES

RECHARGEABLE L-ION BATTERY D-LI92 - 39799  
 POWER ADAPTER D-PA135E - 38657  
 CARABINER STRAP O-ST161 - 38102  
 PENTAX USB CABLE I-USB7 - 39551  
 PENTAX MACRO STAND O-MS2 - 38642

## OPTIONAL ACCESSORIES

 FLAT ADHESIVE MOUNT-O-CM1471 - 37030	 HANDLE BAR MOUNT O-CM1472 - 37031	 SUCTION MOUNT O-CM1473 - 37032
 LARGE ADHESIVE MOUNT O-CM1532 - 37041	 MAGNET MOUNT O-CM1535 - 37044	 WRIST STRAP MOUNT O-CM1533 - 37042
 HELMET STRAP MOUNT O-CM1536 - 37045	 GRIP ADAPTER O-MA1531 - 37046	 PEG MOUNT O-CM1534 - 37043
 ANGLE ADAPTER O-MA1532 - 37047	 CARABINER - 38067	 FLOATING STRAP - 50195
 WG REPAIR PARTS 1 O-CM1474 - 37034	 WG REPAIR PARTS 2 O-CM1475 - 37035	 WG REPAIR PARTS 3 O-CM1476 - 37036
 WG Holder O-CH1470 - 37033	 Black neoprene case 50282	
AC ADAPTER KIT K-AC117E - 38971 BATTERY CHARGER KIT K-BC92E - 39804 PENTAX AV CABLE I-AVC7 - 39552 BLACK NEOPRENE CASE - 50282 PENTAX LENS ADAPTER O-LA135 - 38654 REMOTE CONTROL E - 37376 REMOTE CONTROL F - 37377 PENTAX REMOTE CONTROL O-RC1 - 39892 PENTAX SPORT STRAP O-ST81 - 39457 PENTAX LEATHER STRAP O-ST24 - 39263	STRAP O-ST8 - 39166 PENTAX SPORT STRAP O-ST30 - 39270 RICOH WIDE CONVERSION LENS DW-5 WW - 171930 WG HOLDER O-CH1470 - 37033	

## SENSOR

<b>Number of pixels</b>	Approx. 16 megapixels - effective
<b>Total pixels</b>	Approx. 16.79 megapixels
<b>Sensor size</b>	1/2.3" CMOS
<b>Image size*</b>	16M(4608x3456), 12M(1113456x3456), 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) <i>* In Digital Microscope mode, recorded pixels is fixed to 2M(1920x1080) or fixed at 3M(2048x1536) in single frame (before merge.)</i> <i>* In Burst Shooting mode, recorded pixels is fixed to 5M(2592x1944) or 4M(2592x1464) per frame.</i> <i>* In Report mode, recorded pixels is fixed to 1280x960.</i> <i>* In Original Frame mode, recorded pixels is fixed to 5M(2592x1944) or 4M(2592x1464).</i>
<b>Motion blur reduction</b>	Pixel Track SR, Hi-sensitivity anti-shake mode (Digital SR)
<b>Sensitivity</b>	AUTO, Manual (ISO 125 - 6400)
<b>Auto ISO range</b>	ISO 125-200, ISO 125-400, ISO 125-800, ISO 125-1600, ISO 125-3200, ISO 125-6400 <i>*Fixed at ISO 125-1600 in Green mode.</i> <i>*Fixed at ISO 125-200, 125-400, 125-400, 125-1600 in Handheld Night Snap mode.</i> <i>*Fixed at ISO 125-6400 in Report mode.</i>
<b>Quality level</b>	★★★ Excellent, ★★ very good, ★ good
<b>Shake Reduction**</b>	Sensor-Shift-Type (SR : Shake Reduction), Dual (SR & Pixel Track SR), High-sensitivity anti-shake mode (Digital SR)
<b>Auto ISO range for SR</b>	ISO 125-6400

## LENS

<b>Focal length</b>	4.5 - 18mm (approx. 25 - 100mm equivalent in 35mm format)
<b>Aperture</b>	F2.0(W) - F4.9(T)
<b>Smallest aperture</b>	F11.3(W) - F18.5(T)
<b>Construction</b>	RICOH lens, 9 elements in 7 groups (4 aspherical elements)
<b>Optical zoom</b>	4X
<b>Digital zoom*</b>	Approx. 7.2X
<b>Intelligent Zoom*</b>	Approx. 30X at 7M, approx. 144X at 640 (including optical zoom)

## SCREEN

<b>Type</b>	3.0" wide TFT color LCD, Wide viewing 170 angle degree, approx. 460K dots, AR Coating (LCD Cover only) and protection acrylic cover
<b>LCD frame rate</b>	Approx. 60

## FILE FORMATS

<b>Photo</b>	JPEG(conforms to Exif 2.3), conforms to DCF2.0, DPOF, PRINT Image Matching III
<b>Video</b>	MPEG - 4 AVC/H.264
<b>Audio</b>	Movie/ Underwater Movie/ Time-Lapse Movie/ 1cm-Macro Movie : 32KHz, 16bit, stereo High Speed Movie : 8KHz, 16bit, stereo

## MEMORY

<b>External memory</b>	Compatible with SD/ SDHC/ SDXC and Eye-Fi memory cards
<b>Internal memory</b>	Approx. 70 MB

## FOCUSING

<b>Type</b>	TTL contrast detection auto focus system, 9-point AF, Spot AF, Auto tracking AF
<b>Modes</b>	Infinity-landscape, Pan Focus, Manual Focus
<b>Focus range</b>	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)
<b>Face detection</b>	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
<b>Pet detection</b>	Detect up to 1 pet's face(auto)
<b>Largest magnification</b>	Approx. 1.24x, at focus mode : 1cm macro, focal length 18mm, focusing distance 0.01m
<b>AF Assist lamp</b>	Available
<b>Macro light</b>	Available, 6 LED to assist close-up shooting

## EXPOSURE CONTROL

<b>Metering system</b>	Multi-segment metering, Center-weighted metering, Spot AE metering
<b>Shutter speed</b>	1/4000 - 1/4sec.(Mechanical and electronic shutter) , 1/2000 - 4 sec.(Shutter Priority, Night Scene)
<b>Exposure compensation</b>	±2EV(1/3EV steps)

## FLASH

<b>Flash modes</b>	Flash-on and Flash-off modes. "Red-eye" compensation function employs a pre-discharge.
<b>Flash range</b>	Wide:approx. 0.2 - 10.4m (ISO Auto) Tele:approx. 0.2 - 4.2m (ISO Auto)

## VIDEO

<b>Resolution</b>	1920, 1280
<b>Quality level</b>	Fixed
<b>Shake reduction</b>	Movie SR mode

## POWER SUPPLY

<b>Battery</b>	Rechargeable lithium-ion battery D-LI92
<b>Capacity**</b>	Still*: approx. 240 shots (Rechargeable Lithium-ion battery) Playback**: approx. 200 min. (Rechargeable Lithium-ion battery) Movie : Approx. 65 min. ** <i>* Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary depending on operating conditions.</i> <i>** According to the result of RICOH IMAGING in-house testing.</i>
<b>Other</b>	Optional AC adapter kit

## INTERFACES

<b>Video output</b>	NTSC/PAL
<b>USB</b>	USB2.0(Hi-Speed): USB/AV terminal, HDMI terminal (Type D, Micro port)

## SHOOTING FEATURES

<b>Drive modes</b>	One shot, Self-timer, Continuous Shooting, Burst Shooting, Remote Control*, Auto Bracketing
<b>Continuous shooting</b>	Approx. 1.5 fps, 16M(4:3): up to approx. 60 frames, approx. 1.7 fps, 12M(16:9): up to approx. 78 frames
<b>High speed cont. shooting</b>	Approx. 12 fps, 5M(4:3): up to 30 frames, approx. 14 fps, 4M(16:9): up to 30 frames
<b>Scene Modes</b>	Auto Picture, Program, Shutter Priority, USER, HDR, Handheld Night Snap, Movie, Digital Microscope, Landscape, Flower, Portrait, Interval Shot, Underwater, Underwater Movie, Interval Movie, High Speed movie**, Time-Lapse movie**, 1cm-Macro Movie, Digital SR, Surf & Snow, Kids, Pet, Sport, Night Scene, Night Scene Portrait, Fireworks, Food, Report*, Green
<b>Auto picture scene modes</b>	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
<b>White Balance</b>	Auto, Daylight, Shade, Tungsten light, Fluorescent light(D:Daylight Color, N:Daylight White, W:White Light), Manual
<b>Dynamic range</b>	Available (Shadow/Highlight adjustment)
<b>Noise reduction</b>	Automatically applied when the shutter speed is slower than 0.25 sec

## OTHER FEATURES

<b>World time</b>	Supported
<b>Electronic level</b>	Available
<b>Date Imprint</b>	*Date Imprint Available(Date, Date & time, Time) (except Green)
<b>Image Tone</b>	Bright, Natural, Monochrome
<b>Text size</b>	Standard, Large
<b>Languages</b>	English, French, German, Spanish, Portuguese, Italian, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian
<b>Playback modes</b>	Slideshow, Image Rotation, Small Face Filter, Ink Rubbing Filter, Collage, Digital Filter(B&W/Sepia, 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
<b>Playback functions</b>	One Shot, Index (6 thumbnails, 12 thumbnails), Enlargement (up to 10x, scroll available), Movie Playback, Histogram, Folder display, Select&Delete, Calendar, Changing Folder name
<b>Digital filters (playback)</b>	B&W/Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature
<b>Movie edit functions***</b>	Save as still image , Divide Movies , Adding title picture
<b>Self-timer count</b>	10 sec, 2 sec, Remote Control(immediately, 3 sec)
<b>Start-up Time</b>	Approx. 1.8 sec
<b>Release Time Lag</b>	Approx. 0.016 sec
<b>Water proof / Dustproof****</b>	Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities.

## DIMENSIONS AND WEIGHT

<b>Dimensions</b>	Approx. 125(W) × 64.5(H) × 32(D)mm
<b>Weight</b>	RICOH WG-4 GPS: With battery & SD card : Approx. 236g (loaded and ready) Body only : Approx. 216g

## SYSTEM REQUIREMENTS

<b>Operating systems</b>	PC : Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 Mac : Mac OS X 10.6, 10.7, 10.8
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## SOFTWARE

Windows: MediaImpression 3.6.2 LE / Mac : MediaImpression 2.2 LE

The following functions and features are only for the RICOH WG-4 GPS : GPS function, Electronic Compass function, Sub-display

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

\*\* Recorded pixels fixed to 1280(1280x720), frame rate fixed to 120fps for shooting, 30fps for playback in High Speed Movie mode.

\*\* Recorded pixels fixed to 640(640x360), frame rate fixed to 15fps for shooting, 240fps for playback in Time-Lapse Movie mode.

\*\*\* Still Picture Saving during Movie Recording (Up to 3p/ cont. movie recording with focus fixed at the start of recording and nb of recorded pixels fixed to 12M(16.9). The angle of view may change, depending on the number of recorded pixels for movies. The image may be distorted, depending on recording conditions.)

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

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

\* 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).