



Clifton Cameras Product Specification

Ricoh WG-80 Camera

Specifications

CAMERA TYPE	Water protected Digital compact camera for movie and photo
SENSOR	1/2.3" CMOS
PIXELS	Effective: approx. 16 megapixels
SENSITIVITY	STANDARD OUTPUT: AUTO, Manual (ISO 125 - 6400)
MOTION BLUR REDUCTION	Still: Pixel Track SR, Digital SR mode by automatically increasing sensitivity up to ISO 6400 Video: Movie shake reduction mode (Movie SR)
WHITE BALANCE	Auto, Daylight, Shade, Cloudy, Tungsten light, Fluorescent light (D: Daylight Color, N: Daylight White, W: White Light), Ring light, Manual
DYNAMIC RANGE	Shadow/Highlight adjustment
NOISE REDUCTION	Automatically applied when the shutter speed is slower than 0.25 s

FILE FORMATS

STILL	JPEG (conforms to Exif 2.3), conforms to DCF2.0, PRINT Image Matching III
RECORDED PIXELS	STILL: Size: 16MP, 12MP (1:1), 12MP(16:9), 7MP, 5MP(16:9), 5MP, 4MP(16:9), 3MP, 2MP(16:9), 1024, 640
QUALITY LEVEL	STILL: ***, **, *
STORAGE MEDIA	SD/SDHC/SDXC Memory Card
BUILT-IN MEMORY	Approx. 65MB

LENS

LENS DESIGN	RICOH lens 11 elements in 9 groups (5 aspherical elements)
FOCAL LENGTH	5 - 25mm
35MM FORMAT EQUIVALENT	Approx. 28 - 140mm
MAXIMUM APERTURE	F3.5(W) – F5.5(T)
CONSTRUCTION	RICOH lens, 11 elements in 9 groups (5 aspherical elements)
OPTICAL ZOOM	5x



DIGITAL ZOOM	Approx. 7.2x
INTELLIGENT ZOOM	Approx. 7.5X at 7M, approx. 36X at 640 (including optical zoom)
MAXIMUM MAGNIFICATION	Approx. 0.4x (1cm Macro)

AUTO FOCUS SYSTEM

TYPE	9-point AF, Spot AF, Auto tracking AF,
FOCUS RANGE	Standard: 0.5m - infinity / 1.64ft. - infinity (entire zoom range) Macro:0.1 - 0.6m / 0.33 - 1.97ft. (entire zoom range) 1cm Macro:0.01 - 0.3m / 0.03 - 0.98ft. (middle zoom position) Infinity-landscape, Pan Focus, Manual Focus: available
MANUAL FOCUS RANGE	0.01m - infinity (Depends on the zooming steps. 0.01m is only available in 2 - 4 zoom step.)
FACE DETECTION	Face Detection AF&AE is available for all modes up to 30 faces. Smile Capture, Self-portrait Assist, Self-portrait Assist + Smile Capture, Blink Detection
PET DETECTION	Detect up to 1 pet's face (auto)
AF ASSIST LAMP	Available

EXPOSURE CONTROL

METERING SYSTEM	Multi-segment metering, Center-weighted metering, Spot metering
SHUTTER SPEED	1/4000 - 1/4sec.(Mechanical and electronic shutter), 4sec at most. (Night Scene mode setting)
EV COMPENSATION	± 2EV (1/3EV steps)
SCENE MODE	Auto Picture, Program, HDR, Handheld Night Snap, Movie, High Speed Movie, Digital Microscope, Landscape, Flower, Portrait, Underwater, Underwater Movie, Interval Shot, Interval Movie, Surf & Snow, Kids, Pet, Sport, Night Scene, Night Scene Portrait, Fireworks, Food, Digital SR, Report, Green
SELF TIMER	10 sec, 2 sec, off

CAPTURE SETTING

IMAGE TONE	Bright, Natural, Vibrant, Slide Film, Monochrome, Cross Processing
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DISPLAY

TYPE	2.7" Wide LCD, approx. 230K dots, AR Coating(Cover only), With outdoor mode to adjust the brightness of the monitor for the respective lighting conditions
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SHOOTING FEATURES



DRIVE MODES One shot, Self-timer, Continuous Shooting, Burst Shooting, M Continuous, S Continuous, Remote Control, Auto Bracketing

CONTINUOUS SHOOTING Approx. 1.08 frame/sec., max 69 # of frames

BUILT-IN FLASH

MODES Flash-on and Flash-off modes.

"Red-eye" compensation function employs a pre-discharge.

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)

6 LED RING LIGHTS Single touch Ring light mode, Bright Illumination

Able to adjust amount of light by 10 steps

Able to select which LED should be lighted by 5 patterns

Macro shooting from 1cm

MOVIE

FILE FORMAT MPEG-4 AVC/H.264

NUMBER OF RECORDED PIXELS 1920 (1920 x 1080) : approx. 30fps,

1280 (1280 x 720) : approx. 60/30fps

AUDIO 【Movie/Underwater Movie】 32KHz, 16bit, monaural

【High Speed Movie】 8KHz, 16bit, monaural

SHAKE REDUCTION Movie shake reduction mode (Movie SR)

MOVIE EDIT FUNCTIONS Save as still image, Divide Movies, Adding title picture

PLAYBACK

PLAYBACK FUNCTIONS One Shot, Index (6 thumb nails, 12 thumb nails), Enlargement (up to 10X, scroll available), Movie Playback, Histogram, Folder display, Select&Delete, Calendar

PLAYBACK MODES 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, Start-up Screen

DIGITAL FILTER B&W / Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature Filter

CUSTOMAZATION



LANGUAGES English, French, Germany, Spanish, Portuguese, Italy, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian, Thai, Korean, Simplified Chinese, Traditional Chinese

SPECIAL

WORLD TIME Supported

DATE IMPRINT Date Imprint Available (Date, Time, Date & time) (except Green)

START-UP TIME Approx. 1.5 sec (TBD)

RELEASE TIME LAG Approx. 0.008 sec.

WATER PROOF Up to 14m (45ft.) for 2 hours
Equivalent to JIS Class 8 waterproof

DUSTPROOF IP6X / JIS Class 6 dustproof capabilities

SHOCK PROOF Up to 1.6m (5.2ft.)

OPERATING TEMPERATURE -10°(14°F) to 40°(104°F)

POWER SUPPLY

POWER SOURCE Rechargeable lithium-ion battery D-LI92

BATTERY LIFE Still*: approx. 300 shots (Rechargeable Lithium-ion battery)
Playback**: approx. 260 min. (Rechargeable Lithium-ion battery) (TBD)
Movie: approx. 90 min. ** (TBD)

* 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.

BATTERY CHARGE TIME Approx 120 min

INTERFACES

INTERFACES USB2.0(Micro-B), HDMI output terminal(Type D)

DIMENSIONS & WEIGHT

DIMENSIONS Approx. 122.5 (W) x 61.5 (H) x 29.5mm (D) /4.8 (W) x 2.4 (H) x 1.2inches (D) (including lens depth)

WEIGHT Approx. 193g / 6.8 oz. (loaded and ready)



Approx. 173g / 6.1oz. (without battery and SD memory card)

SYSTEM REQUIREMENTS

PC	Windows® 7, Windows® 8.1, Windows® 10
MAC	Mac OS X 10.10, 10.11, 10.12, 10.13, 10.14, 10.15