Clifton Cameras Product Specification

Ricoh GR III HDF Full Spec

SPECIFICATION

MODEL DESCRIPTION

Camera-Typ	TTL autofocus, auto-exposure Compact digital-still camera

LENS

Focal Lenght	18.3mm (Approx. 28mm in 35mm equivalent focal length)
Aperture	F2.8～F16
Construction	6 elements in 4 groups (2 aspherical lens elements)

IMAGE CAPTURE UNIT

Image Sensor	Type: Primary color filter CMOS. Size: 23.5mm x 15.6mm
Effective Pixels	Approx. 24.24 megapixels
Total Pixels	
Sensitivity	ISO100～102400
(Standard output)	Auto (ISO Auto Lower/Upper Limit and Minimum Shutter Speed can be set), Manual
Image Stabilizer	Sensor-shift shake reduction (SR)(3-axis)
AA Filter Simulator	Moiré reduction using SR unit (Off, Low, High)
Dust Removal	Image sensor cleaning using ultrasonic vibrations "DR II"

File format	RAW (DNG) 14bit, JPEG (Exif 2.3), DCF2.0 compliant
Recorded Pixels	【3:2】L(24M:6000x4000), M(15M:4800x3200), S(7M:3360x2240), XS(2M:1920x1280) 【1:1】L(16M:4000x4000), M(10M:3200x3200), S(5M:2240x2240), XS(1.6M:1280x1280)

Quality Level	RAW (14bit): PEF, DNG JPEG: ★★★ (Best), ★★ (Better), ★ (Good), RAW + JPEG simultaneous capturing available
Color Space	sRGB, AdobeRGB
Storage Medium	Internal Memory (Approx. 2GB), SD/SDHC/SDXC Memory Card (Conforms to UHS-I standards)

WHITE BALLANCE

Type of White Balance	AUTO WB, Multi Auto WB
Light temperature - presets	Daylight, Shade, Cloudy, Fluorescent Light (D:Daylight Color, N:Daylight White, W:Cool White, L:Warm White), Tungsten Light, CTE, Manual WB (up to 3 settings), Color Temperature Configuration (up to 3 settings), Copying the white balance setting of a captured image
Fine Adjustment	Adjustable ±14 steps on A-B axis or G-M axis

LCD MONITOR

Monitor Type	TFT color LCD, Wide viewing angle, Air-gapless tempered glass
Touch Screen standard	Capacitive sensing method
Size	3.0 inch (aspect ratio 3:2)
Resolution	Approx. 1037K dots
Adjustment	Brightness, Saturation and Colors adjustable
Display	Display magnification (4x, 16x), Grid display (4x4 Grid, 3x3 Grid), Histogram, Bright area warning, Electronic Level

AUTOFOCUS SYSTEM

Type of AF-System	Hybrid AF (Image plane phase-matching and Contrast detection)
Focus Mode	Auto-area AF, Zone AF, Select AF, Pinpoint AF, Tracking AF, Continuous AF, MF, Snap (1m, 1.5m, 2m, 2.5m, 5m,∞), ∞
Full Press Snap	Performs shooting by focusing at the Snap distance with a single press of the Shutter Release Button or a touch of the LCD Monitor*

	*The latest firmware is required to use the full feature with GR III
Face/Eye Detection	ON, Use only in Auto-area, OFF *The latest firmware is required to use Eye detection with GR III.
Focus Range (From lens face)	Normal: Approx. 0.1m〜∞, Macro Mode: Approx. 0.06m〜0.12m

EXPOSURE

Type of Metering System	Multi-segment, Center-weighted, Spot, Highlight-weighted
Exposure Mode	Program AE, Aperture Priority AE, Shutter Priority AE, Manual Exposure
EV Compensation	Still Image: ±5EV, 1/3EV steps, Movie: ±2EV, 1/3EV steps
HDF (Highlight Diffusion Filter)	ON, OFF

SHUTTER

Shutter-Type	Electronically controlled lens shutter
Shutter Speed	1/4000 sec. - 30 sec. (Limit by aperture setting F2.8: 1/2500 sec, F5.6 or greater: 1/4000 sec.) Timed Exposure (10sec. - 20min.), Bulb, Time

DRIVE MODES

Mode Selection	Single Frame Shooting, Continuous Shooting, Bracketing, Multi-exposure, Interval Shooting, Interval Composite
Self-timer	10 sec., 2 sec., OFF
Multi-Exposure	Composite Mode(Additive/Average/Bright) Multiple Shots

EXTERNAL FLASH

Hot Shoe	Compatible with P-TTL Auto Flash
Flash Mode	Flash On, Flash On+Red-eye, Slow-speed Sync, Slow Sync+Red-eye
Flash Exposure Compensation:	-2.0 -+1.0

SHOOTING FUNCTIONS

Custom Image / Image Control	Standard, Vivid, Monotone, Soft Monotone, Hard Monotone, Hi-Contrast B&W, Positive Film, Bleach Bypass, Retro, Cross Processing*, HDR Tone, Custom1, Custom2 Adjust parameters: Saturation, Hue, High/Low Key Adjustment, Contrast, Contrast (Highlight), Contrast (Shadow), Sharpness, Shading, Clarity, Toning, Filter Effect, Grain Effect*, HDR Tone Level, Color Tone* (Adjust parameter varies depending on the selected image setting) *The latest firmware is required to use the full feature with GR III
Digital Filter	For Shooting and Edition Process
D-RANGE Compensation	Highlight Correction, Shadow Correction
Noise Reduction	Slow Shutter Speed NR, High-ISO NR
Horizon Correction	SR On: correction up to 1 degrees, SR Off: correction up to 1.5 degrees *The latest firmware is required to use the full feature with GR III.
Crop	35mm, 50mm, OFF

MOVIE

File Format	MPEG-4 AVC/H.264(MOV
Recorded Pixels	Full HD (1920x1080, 60p/30p/24p)
Sound	Built-in stereo microphone
Recording Time	Up to 25 minutes or 4GB ; automatically stops recording if the internal temperature of the camera becomes high.

PLAYBACK

Playback View	Single frame, Multi-image (20, 48 frames), Display magnification (up to 16x, 100% view and Quick Zoom view available), Histogram (Y histogram, RGB histogram), Grid display (3x3 Grid, 4x4 Grid), Bright area warning, Auto Image Rotation
Base Parameter Adjustment	Normal editing, Monotone editing* Parameter: Brightness, Saturation, Filter Effect*, Hue, Toning*, Contrast, Sharpness (Adjust parameter varies depending on the selected editing setting) *The latest firmware is required to use the full feature with GR III
RAW Development	RAW file select: Select Single Image, Select Multiple Images, Select a folder, Select a shooting date Aspect Ratio, JPEG Recorded Pixels, Color Space, White Balance, Image Control, Peripheral Illumination Correction, Sensitivity, High-ISO Noise Reduction, Shadow Correction
Edit	Delete, Protect, Image Rotation, Image Copy, File Transfer, Resize, Cropping (Aspect ratio and Slant adjustment* available), Levels Adjustment, White Balance Adjustment, Color Moiré Correction, Movie Edit (Cut), Movie Edit (Divide) *The latest firmware is required to use the full feature with GR III.

INTERFACES

USB Connection	USB Type-C™, Battery Recharge/Power Supply (Optional AC Adapter required), Data Transfer: MTP, Video output: DisplayPort over USB-C (DisplayPort Alternative Mode)
Lens adapter pin	Available

WIRELESS LAN

WLAN Standard	IEEE 802.11b/g/n (HT20) (Wireless LAN standard protocol)
Frequency (Center Frequency)	2412MHz〜2462MHz (1ch〜11ch)
Security	Authentication: WPA2, Encryption: AES

BLUETOOTH®

Transfer Protocol	Bluetooth® v4.2 (Bluetooth Low Energy)
Frequency (Center Frequency)	2402MHz～2480MHz(CH0～CH39)

DIMENSIONS AND WEIGHT

Dimensions	Approx. 109.4(W)×61.9(H)×33.2(D)mm (excluding protrusions)
Weight	Approx. 257g (Including dedicated battery and SD Memory Card), Approx. 227g (body only)

POWER SUPPLY

Battery Type	Rechargeable Lithium-ion Battery DB110
AC Adapter	AC Adapter Kit K-AC166(Optional)
Battery Life	Number of recordable images: Approx. 200 images, * With a fully-charged Rechargeable Lithium-ion Battery under the temperature at 23°C. Tested in compliance with CIPA standard. Actual results may vary depending on the shooting condition. Playback time: Approx. 180 minutes * The playback time is a guide based on RICOH's measurement method . The actual number differs according to usage conditions
Battery Charging	by USB Type-C™, Battery Recharge/Power Supply

INCLUDED ACCESSORIES

Rechargeable lithium-ion battery DB110 - Art No. 37838 USB Power Adapter AC-U2 Power Plug AC-U1 USB cable I-USB166 - Art. No. 37822

Hot shoe cover - Art. No. 37818
Ring cap GN-1
Strap

Art. No	1271
Body Color	black
Released	April 2024

OPTIONAL ACCESSORIES

AC ADAPTER KIT K-AC166E - Art. No. 38371

RECHRGEABLE BATTERY DB-110 - Art. No. 37838

BATTERY CHARGER BJ-11 - Art. No. 37861

RICOH EXTERNAL VIEW FINDER GV-1 W/W - Art. No. 172780

RICOH EXTERNAL VIEW FINDER GV-2 W/W - Art. No. 175090

LENS ADAPTER GA-1 - Art. No. 37817

WIDECONVERSION LENS GW-4 - Art. No. 30248

SOFT CASE GC-9 - Art. No. 30249

SOFT CASE GC-10 - Art. No. 30251

RICOH STRAP ST-2 WW - Art. No. 174790

RICOH STRAP GS-3 WW - Art. No. 175810

RICOH STRAP GS-2 WW - Art. No. 173381

METAL HOTSHOE COVER GK-1 - Art. No. 30252

RING CAP GN-1 (BLACK) - Art. No. 37819

RING CAP GN-1 (DARK GRAY) - Art. No. 37823

RICOH CABLE SWITCH CA-3 - Art. No. 30004

SYSTEM REQUIREMENTS

<Windows>

OS	Windows 10 (FCU/CU)(32bit/64bit) / Windows 8.1 (32bit/64bit)

<Macintosh>

OS	macOS 11 BigSur, macOS 10.15 Catalina, macOS 10.14 Mojave

* The operating system must be pre-installed in the computer, and updated to the latest version.

  The system requirements above do not necessarily gurantee proper operation with all computers.

STORAGE CAPACITY

RAW

Recorded Pixels	24M(6000 x 4000)
SD Card 8 GB	150
Internal Memory	40

JPEG

Recorded Pixels	L - 24M(6000 x 4000)
SD Card 8 GB	527
Internal Memory	140

Recorded Pixels	M - 15M(4800 x 3200)
SD Card 8 GB	820
Internal Memory	218

Recorded Pixels	S - 7M(3360 x 2240)

SD Card 8 GB	1646
Internal Memory	437

Recorded Pixels	2M(1920 x 1280)
SD Card 8 GB	4717
Internal Memory	1253

<Movie recording>

Recorded Pixels	Full HD (1920 x 1080)

Time (approx.)	00:12′17″	00:24′09″	00:29′56″
SD Card 8GB	60p	30p	24p

[Hours : Minutes' Seconds"]

* You can record up to 25 min. or 4GB movie for one shooting.
* 'Testing your camera' refers to confirmed operation by RICOH IMAGING, and is intended for customer convenience but is not a guarantee by RICOH IMAGING to the customer.
* Use a high-speed SD memory card when recording movies. If the writing speed cannot keep up with the recording speed, writing may be interrupted during recording.