Clifton Cameras Product Specification

Ricoh GR IIIx Urban Edition

Specifications

TYPE   Compact camera with fixed focal length

IMAGE CAPTURE UNIT

TYPE	Primary color filter CMOS. Size: 23.5mm x 15.6mm
EFFECTIVE PIXELS	Approx. 24.24 mega pixels
TOTAL PIXELS	Approx. 24.79 mega pixels
SENSITIVITY	ISO 100-102400: Auto, Manual
IMAGE STABILIZATION	Sensor-shift shake reduction (SR) (3-axis: Pitch, Yaw, Roll)
SHAKE REDUCTION STEPS	4 EV Steps
AA FILTER SIMULATOR	Moiré reduction using SR unit (Off, Low, High)
DUST REMOVAL	Image sensor cleaning using ultrasonic vibrations "DR II"
WHITE BALANCE	Auto White Balance, Multi Auto White Balance, Daylight, Shade, Cloudy, Fl. - Daylight Color, Fl. - Daylight White, Fl. - Cool White, Fl. - Warm White, Tungsten, CTE, Manual White Balance, Color Temperature
	Fine Adjustment: Adjustable ±14 steps on A-B axis or G-M axis
DYNAMIC RANGE CORRECTION	Highlight Correction, Shadow Correction
NOISE REDUCTION	Slow Shutter Speed Noise Reduction, High-ISO Noise Reduction

FILE FORMATS

STILL	File Format: RAW (DNG) 14bit, JPEG (Exif 2.3), DCF2.0 compliant Color Space: sRGB、AdobeRGB
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)
MOVIE	File Format: MPEG4 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

STORAGE MEDIA	SD/SDHC/SDXC Memory Card (Conforms to USH-I standards)
BUILT-IN MEMORY	Approx. 2GB

LENS

FOCAL LENGTH	26.1mm
35MM FORMAT EQUIVALENT DIGITAL CROP	Approx. 40mm
APERTURE	f2.8-f16
CONSTRUCTION	7 elements in 5 groups (2 aspherical lens elements)
MACRO RATIO	0.25x

AUTO FOCUS SYSTEM

TYPE	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, Snapshot to pre-selected areas (1m, 1.5m, 2m, 2.5m, 5m),, ∞
FOCUS RANGE	Normal: Approx. 0.1m~∞, Macro Mode: Approx. 0.06m~0.12m
FACE DETECTION	ON, Use only in Auto-area, OFF
AF ASSIST LAMP	Available: Built-in LED AF assist light

LCD MONITOR

TYPE	3.0 inch TFT color LCD (aspect ratio 3:2), Approx. 1037K dots, Wide viewing angle, Air-gapless tempered glass
TOUCH SCREEN ADJUSTMENTS	Capacitive sensing method
	Brightness, Saturation, Blue/Amber, Green/Magenta,
	Outdoor View Setting: ±2 Steps
MAGNIFICATION	Display magnification (4x, 16x), Grid display (4x4 Grid, 3x3 Grid), Histogram, Bright area warning, Electronic Level

EXPOSURE CONTROL

METERING RANGE	0~22EV(ND-AUTO)
STARTUP TIME	0.8s
RELEASE TIME	lag 30ms
EXPOSURE MODE	Program AE, Aperture Priority AE, Shutter Priority AE, Manual Exposure
METERING SYSTEM	Multi-segment, Center-weighted, Spot, Highlight-weighted, programme line for depth of field priority and maximum aperture priority

SHUTTER SPEED	1/4000 sec. - 30 sec. (Limit by aperture setting F2.8: 1/2500 – 1/4000 sec.), Timed Exposure (10sec. - 20min.), Bulb, Time
SHUTTER TYPE	Lens Shutter
EV COMPENSATION	Still Image: ±5EV, 1/3EV steps, Movie: ±2EV, 1/3EV steps
ND FILTER	Auto, On, Off

SHOOTING FUNCTIONS

DRIVE MODES	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,
	Save interim images: OFF/Unblended/Blended/Unblended+Blended
SHOOTING MODES	Interval Shooting: Interval: Min, 1sec. - 60min., Number of shots: ∞, 2-99 times, Start Interval: Now/ Set Time
	Interval Composite: Shooting period: ∞, 10min. - 24hour, Start Interval: Now/Set Time, Save Inerim images: OFF/Unblended/Blended
HORIZON CORRECTION	SR On: correction up to 1 degrees, SR Off: correction up to 1.5 degrees

FLASH

BUILD-IN FLASH	Not available
HOT SHOE	Compatible with P-TTL Auto Flash of actual PENTAX FLASH Lineup
FLASH SYNC SHUTTER SPEED	All shutter speeds
FLASH MODE	Flash On, Flash On+Red-eye, Slow-speed Sync, Slow, Sync+Red-eye Flash Exposure Compensation: -2.0 -+1.0

CAPTURE SETTING

IMAGE CONTROL	Standard, Vivid, Monotone, Soft Monotone, Hard Monotone, Hi-Contrast B&W, Positive Film, Bleach Bypass, Retro, HDR Tone, Custom1, Custom2
ADJUST PARAMETERS	Saturation, Hue, High/Low Key Adjustment, Contrast, Contrast (Highlight), Contrast (Shadow), Sharpness, Shading, Clarity, Toning, Filter Effect, HDR Tone Level (Adjust parameter varies depending on the selected image setting)

MOVIE

FILE FORMAT	MPEG4 AVC/H.264 (MOV)
RECORDED PIXELS	Full HD (1920x1080, 60p/30p/24p)

RECORDING TIME	Up to 25 minutes or 4GB; automatically stops recording if the internal temperature of the camera becomes high
SOUND	Built-in stereo microphone
EV COMPENSATION	±2EV, 1/3EV steps
WHITE BALANCE FOR MOVIE	Auto White Balance, Daylight, Shade, Cloudy, Fl. - Daylight Color, Fl. - Daylight White, Fl. - Cool White, Fl. - Warm White, Tungsten, CTE, Manual White Balance, Color Temperature
IMAGE CONTROL FOR MOVIE	Standard, Vivid, Monotone, Hard Monotone, Hi-Contrast B&W, Positive Film, Bleach Bypass, Retro, HDR Tone, Custom1, Custom2

PLAYBACK

PLAYBACK FUNCTIONS	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: Brightness, Saturation, Hue, Contrast, Sharpness RAW Development: Aspect Ratio, JPEG Recorded Pixels, Color Space, White Balance, Image Control, Peripheral Illumination Correction, Sensitivity, High-ISO Noise Reduction, Shadow Correction
	Edit: Resize, Cropping, Levels Adjustment, White Balance Adjustment, Color Moiré Correction, Movie Edit (Cut), Movie Edit (Divide)
PARAMETER ADJUSTMENT	Brightness, Saturation, Hue, Contrast, Sharpness
RAW DEVELOPMENT	Aspect Ratio, JPEG Recorded Pixels, Color Space, White Balance, Image Control, Peripheral Illumination Correction, Sensitivity, High-ISO Noise Reduction, Shadow Correction
EDIT	Resize, Cropping, Levels Adjustment, White Balance Adjustment, Color Moiré Correction, Movie Edit (Cut), Movie Edit (Divide)

CUSTOMAZATION

USER MODE	Save setting (Max 3 settings can be saved), Rename setting, Recall setting, Delete setting
FOLDER NAME	Date (100_1018,101_1019...) or User assigned folder name (Default "RICOH")
FILE NAME	"R0******" or User assigned file name File name numbering: Sequential, Reset
CUSTOMIZE CONTROLS	M Mode Dial Setting, ADJ Mode Setting, Fn Button Setting, Shutter Release Button Setting, 4-way Controller Action, Shutter Release Button Confirmation, LCD Touch Operation, Touch AF
CUSTOMIZE DISPLAY	Shooting Information Display Setting, Playback Information Display Setting, Instant Review, Zoom Review, Focus Magnification, Grid Guide type, Electronic Level type, Flicker Reduction
LANGUAGES	English, French, Germany, Spanish, Portuguese, Italy, Dutch, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian, Thai, Korean, Simplified Chinese, Traditional Chinese, Japanese

NEW ACCESSORY	External viewfinder for 40mm (KB equivalent)
	75mm conversion lens GT-2 (requires lens adapter GA-2)

MOBILE COMMUNICATION WIRELESS LAN

FUNCTION	For easy pairing with mobile devices such as smartphones and tablet computers. By installing the dedicated Image Sync application on a mobile device, the user can display a Live-View image on the device's monitor, release the shutter and send various commands from the device. The wireless LAN connection also makes it easy to upload captured images onto SNS sites.
STANDARDS	IEEE 802.11b/g/n (HT20) (Wireless LAN standard protocol)
FREQUENCY	(Center Frequency) 2412MHz~2462MHz (1ch~11ch)
SECURITY	Authentication: WPA2, Encryption: AES

BLUETOOTH®

FUNCTION	Camera can be activated and establish wireless LAN connection even though it is in the Sleep Mode. By connecting with the Image Sync app the location
STANDARDS	data obtained by the smartphone can be recorded onto captured images.
FREQUENCY	Bluetooth® v4.2 BLE(Bluetooth Low Energy)
	(Center Frequency) 2402MHz~2480MHz (CH0~CH39)

POWER SUPPLY

POWER SOURCE	Rechargeable Battery DB-110
AC ADAPTER	AC Adapter Kit K-AC166(Optional)
BATTERY LIFE	Number of recordable images: Approx. 200 images, 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
BATTERY CHARGING	With USB-C Adapter cable camera interanal

INTERFACES

USB TYPE-CTM	Battery Recharge/Power Supply (Optional AC Adapter required), Data Transfer: MTP, Video output: DisplayPort over USB-C (DisplayPort Alternative Mode)

OPERATING ENVIRONMENT

TEMPERATURE	0℃ ~ 40℃

HUMIDITY   85% or less (no condensation)

DIMENSIONS & WEIGHT

DIMENSIONS   Approx.. 109.4(W)×61.9(H)×35.2(D)mm (excluding protrusions)

WEIGHT   Approx. 262g (Included dedicated battery and SD memory card), Approx.
                                  232g (Body only)

SYSTEM REQUIREMENTS

PC   Windows® 7, Windows® 8.1, Windows® 10

MAC   Mac OS X 10.8, 10.9, 10.10, 10.11, 10.12, 10.13