



Clifton Cameras Product Specification

Canon EOS R100

IMAGE SENSOR

Type 22.3 x 14.9mm CMOS

Effective Pixels Approx. 24.1 megapixels

Total pixels Approx 25.8 megapixels

Aspect Ratio 3:2

Low-Pass Filter None

Sensor Cleaning None

Colour Filter Type RGB Primary Colour

Sensor Shift-IS No

IMAGE PROCESSOR

Type DIGIC 8

LENS

Lens Mount RF

Lens Compatibility RF, RF-S (EF and EF-S lenses compatible via mount adapter)¹

Focal Length Equivalent to 1.6x the 35mm focal length of the lens

In Body Image Stabilisation Not Provided

Image Stabilisation Optical stabilisation with lenses featuring IS

Movie Digital IS: Off / Enabled / Enhanced²

FOCUSING

Type Dual Pixel CMOS AF System

Contrast detection method is used during 4K Movie

Servo AF

AF System/Points Stills: Maximum 3975 positions

Video: Maximum 3375 positions

Maximum 143/99 points available for automatic

selection in Face+Tracking mode. May vary

depending on settings.

Max 25 frames in Zone AF1

Freely position 1 AF point/ 1 AF Zone via manual selection (area available lens dependent)

AF working range (stills / movies) EV -4 - 18 / EV -2 - 183

AF Modes One-Shot AF and Servo AF

AF Point Selection Face+ Tracking

Spot AF

1-point AF

Zone AF

Stills: Maximum 3975 positions

Video: Maximum 3375 positions

Maximum 143/99 points available for automatic selection in Face+Tracking mode. May vary depending on settings.

Max 25 frames in Zone AF1

Freely position 1 AF point/ 1 AF Zone via manual selection (area available lens dependent)

AF Tracking Humans (Eyes/Face/Head/Body)

AF Lock Locked when shutter button is pressed half way or customisable AE Lock Button

AF Assist Beam via LED assist beam

Manual Focus With RF lenses: Via dedicated AF/MF switch on lens

where available, or in menu

With EF & EF-S lenses - Select via AF/MF switch on lens

MF Peaking available

AF+MF available (Manual focus adjustment after

One-Shot AF)

Magnify image available during MF (3-10x, in 0.1x increments)⁴

EXPOSURE CONTROL

Metering modes Real-time metering from the image sensor

(1) Evaluative metering (384 zones, 24x16)

(2) Partial metering at center (approx. 5.8% of Live

View Screen)- stills only

(3) Center weighted average metering

(4) Spot metering (approx. 2.9% of Live View Screen)



Partial and spot metering not available in movie

Metering Range Still image: EV -2 - 205

Movie: EV 0 - 20

AE Lock Auto: In One-shot AF mode, exposure is locked as soon as subjects are in focus

Manual: By AE lock Button in creative zone or movie modes

Exposure Compensation +/-3 EV in 1/3 stop increments

AEB 3 shots, +/- 2 EV, 1/3-stop increments

Anti-Flicker Shooting Yes. Flicker detected at a frequency of 100 Hz or 120 Hz

High frequency anti-flicker shooting not provided

ISO Sensitivity Normal ISO speed: ISO 100-12800 in 1/3 or 1-stop increments

Expanded ISO speed: H (equivalent to ISO 25600)⁷

SHUTTER

Type Electronically controlled focal-plane shutter (Rolling shutter, using the image sensor⁹

Electronic first curtain, mechanical 2nd curtain⁸

Speed 30 - 1/4000 sec (1/3 stop increments), Bulb (Total shutter speed range. Available range varies by shooting mode)

Shutter Release Soft-touch electromagnetic release

WHITE BALANCE

Type Auto white balance with the imaging sensor

Settings AWB (Ambience priority/White priority), Daylight,

Shade, Cloudy, Tungsten light, White Fluorescent light,

Flash, Custom, Colour Temperature Setting White

balance compensation:

1. Blue/Amber +/-9

2. Magenta/Green +/-9¹⁰

Custom White Balance Yes, select an image on a card for use as a custom white balance

WB Bracketing +/- 3 levels, single level increments¹¹

VIEWFINDER

Type 0.39-type OLED Electronic Viewfinder

Dot Count Approx. 2,360,000 dots

Coverage

(Vertical/Horizontal)

Approx 100%¹²

Magnification Approx. 0.95x¹³

Eyepoint Approx 22mm¹⁴

Dioptré Correction Approx. -3.0 to +1.0 m⁻¹ (dpt)

Viewfinder Information Viewfinder sensor: provided

Vertical display for Stills only. Exposure Simulation¹⁵

'Customisable and toggle via [INFO] Button¹⁶

(1) Liveview image with exposure info

(2) Liveview image with basic info

(3) Liveview image with full info

Customisable settings:

Grid overlay (x3 formats), Histogram (Brightness/ RGB)

Viewfinder Brightness: Manually adjustable 1-5

Depth of field preview Yes

Eyepiece Shutter No

LCD MONITOR

Type 7.5 cm (3.0") LCD (TFT). 3:2 aspect ratio. Approx.

1,040,000 dots.

Coverage Approx 100%

Brightness Adjustment Adjustable to one of seven levels

Touch-Screen Operations No

Display Options Customisable and toggle via [INFO] Button¹⁶

(1) Liveview image with exposure info

(2) Liveview image with basic info

(3) Liveview image with full info

Customisable settings:

Grid overlay (x3 formats), Histogram (Brightness/ RGB)



FLASH

Built-in Flash GN

(ISO 100, meters)

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Built-in Flash Coverage Approx. 18mm angle of view

Built-in Flash recycle time Approx. 5 seconds

TECHNICAL

SPECIFICATIONS

Modes Auto

Fire

Off

E-TTL II flash metering (Evaluative (Face Priority) /

Evaluative / Average)

Red-Eye Reduction Yes

X-sync 1/250 sec

Flash Exposure

Compensation +/- 2 EV in 1/3 increments

Flash Exposure Bracketing No

Flash Exposure Lock Yes

Second Curtain

Synchronisation Yes¹⁷

HotShoe 5-pin shoe only

External Flash Compatibility E-TTL II with EX and EL series Speedlites, wireless

multi-flash support¹⁸

External Flash Control Via camera setting/ flash setting menu

SHOOTING

Modes Stills:

Scene Intelligent Auto

Hybrid Auto

SCN Special Scene Modes (x10)

- Portrait

- Landscape

- Sports

- Panning

- Close-up

- Food
- Night Portrait
- Handheld Night Scene
- HDR Backlight Control
- Silent shutter mode¹⁹

Creative Filters

- Grainy B/W
- Soft focus
- Fish-eye effect
- Water painting effect
- Toy camera effect
- Miniature effect
- HDR art standard
- HDR art vivid
- HDR art bold
- HDR art embossed²⁰

P (Program AE)

Tv (Shutter-priority AE)

Av (Aperture-priority AE)

M (Manual exposure, bulb exposure)

Movies:

Movie auto exposure

Movie manual exposure

Picture Styles Auto, Standard, Portrait, Landscape, Fine Detail,

Neutral, Faithful, Monochrome, User Defined (x3)

Colour Space sRGB and Adobe RGB

Image Processing Highlight Tone Priority (standard and enhanced)

Auto Lighting Optimizer (4 settings)

Long exposure noise reduction

High ISO speed noise reduction (4 settings + Multi

Shot NR)

Lens peripheral illumination correction

Chromatic aberration correction

Diffraction correction

Digital Lens Optimizer (DLO)

Creative Assist:

Presets

Background Blur (5 settings)

Brightness (19 levels)



Contrast (9 levels)

Saturation (9 levels)

Color Tone 1 & 2 (19 levels)

Monochrome (Off/Black and
white/Sepia/Blue/Purple/Green)

Drive modes Single Shooting

Continuous Shooting

Self-timer: 10 sec. / remote control

Self-timer: 2 sec. / remote control

Self-timer: continuous shooting

Continuous Shooting One shot AF: Max. Approx. 6.5 shots/sec with

Electronic 1st-curtain shutter, speed maintained for

97 JPEG(All sizes) or 6 RAW, 17 C-RAW, or RAW + L

JPEG: 6, C-RAW + L JPEG: 13 images.21

Servo AF: Max. Approx. 3.5 shots/sec.

Interval Timer No

FILE TYPE

Still Image Type JPEG: 8 bits, Standard / Fine: (Exif 2.31 compliant) /

Design rule for Camera File system (2.0)

RAW: RAW, C-CRAW (CR3 14 bits)

Digital Print Order Format [DPOF] Version 1.1

compliant22

RAW+JPEG simultaneous

recording Yes, RAW + various JPEG compression possible

Image Size RAW / C-RAW:

24.0 megapixels (6000 x 4000)

JPEG 3:2:

L 24 megapixels (6000 x 4000)

M 10.6 megapixels (3984 x 2656)

S1 5.9 megapixels (2976 x 1984)

S2 3.8 megapixels (2400 x 1600)

JPEG 4:3:

L 21.3 megapixels (5328 x 4000)

M 9.5 megapixels (3552 x 2664)

S1 5.3 megapixels (2656 x 1992)

S2 3.4 megapixels (2112 x 1600)

JPEG 16:9:

L 20.2 megapixels (6000 x 3368)

M 8.9 megapixels (3984 x 2240)

S1 5.0 megapixels (2976 x 1680)

S2 3.2 megapixels (2400 x 1344)

JPEG 1:1:

L 16.0 megapixels (4000 x 4000)

M 7.1 megapixels (2656 x 2656)

S1 3.9 megapixels (1984 x 1984)

S2 2.6 megapixels (1600 x 1600)²³

Folders New folders can be created and selected

File Numbering (1) Continuous, Auto Reset

(2) Manual Reset

EOS MOVIE

Movie Type MP4: MPEG-4 AVC/H.264, Audio: AAC

Movie Size 4K UHD- 3840 x 2160, 23.98 / 25 fps, IPB (Standard),

AAC

Full HD - 1920 x 1080, 59.94 / 50 / 29.97 / 25 / 23.98 fps,

IPB (Standard), AAC

HD- 1280 x 720, 59.94 / 50 fps, IPB (Standard), AAC

High Frame Rate movies- 1280 x 720, 119.88 / 100 fps,

IPB (Standard), No audio

Time-lapse movie^d- 3840 x 2160 / 1920 x 1080, 29.97 /

25 fps, All-I, No audio

Miniature effect movies- 1920 x 1080, 29.97 / 25 /

23.98 fps, IPB (Standard), No audio²⁴

Colour Sampling (Internal

recording) 4K / Full HD: YCbCr4:2:0 8-bit

Canon Log Not supported

Movie Length Max duration 29min 59sec

Max file size:

SDXC: exFAT: Unlimited

SDHC: FAT32: 4 GB

SD: FAT16 / FAT12: 2GB

High Frame Rate Movie HD 1280 x 720, at 100 or 119.88 fps

Recorded as 1/4 speed slow motion movie



Frame Grab 8.3-megapixel JPEG still image frame grab from 4K

UHD movie possible

Bitrate/Mbps 4K UHD (23.98, 25 fps): IPB (Standard) 120 Mbps

Full HD (59.94, 50 fps): IPB (Standard) 60 Mbps

Full HD (29.97, 23.98, 25 fps): IPB (Standard) 30 Mbps

HD (59.94, 50 fps): IPB (Standard) 26 Mbps

HFR movies (119.88, 100 fps): IPB (Standard) 52 Mbps

4K time-lapse (29.97, 25 fps): ALL-I 300 Mbps

Full HD time-lapse (29.97, 25 fps): ALL-I 90 Mbps

Miniature effect (29.97, 23.98, 25 fps): IPB (Standard)

30 Mbps

Dual Card Recording Not supported

Microphone Built-in monaural microphone (48 KHz, 16-bit x 2 channels)

HDMI Display Output to external monitor only (output of images

and shooting information, images/video are recorded to the card)

Camera screen and External Monitor output

(Recording to camera is not possible, use with external recorder, camera screen shows images with shooting information)

TECHNICAL

SPECIFICATIONS

HDMI Output HDMI Micro OUT terminal (Type D)

Auto:

- 4K (UHD): NTSC (23.98), PAL (25.00p)
- 1080 NTSC (59.94p / 59.94i), PAL (50.00p / 50.00i)
- 480 NTSC (59.94p)
- 576 PAL (50.00p)

1080p:

- 1080 NTSC (59.94p / 59.94i), PAL (50.00p / 50.00i)
- 480 NTSC (59.94p)
- 576 PAL (50p)

Focusing 4K: Contrast detection AF

Full HD: Dual Pixel CMOS AF

HFR Movie: Autofocus disabled

ISO Auto: 100-12800, H: 25600

Manual: 100-12800, H: 25600

OTHER FEATURES

Custom Functions ISO Expansion

Safety shift

7 customisable buttons

- Shutter button (half press)
- Exposure compensation button
- AE lock button
- ISO speed setting button
- Flash button
- Movie shooting button
- Drive mode button

Release shutter without lens

Retract lens on power off

Metadata Tag User copyright information (Author's Name,

Copyright Details)

Image rating (0-5 stars)

LCD Panel / Illumination No

Water/ Dust resistance No

Sound Memo No

Intelligent Orientation Sensor No

Playback zoom 1.5x - 10x in 15 levels

Playback Display Formats (1) Single image with information (toggle options)

(2) Single image

(3) Index display (4/9/36/100 images)

Slide Show Playback time: 1/2/3/5/10/20 seconds

Repeat: Enable / Disable

Transition Effects: Off, Slide in 1-2, Fade 1-3

Background music: Off / On

Histogram Brightness/ RGB

Highlight Alert Yes²⁵



Image Erase Single image, select range, Selected images, Folder,

Card

Image Erase Protection Erase: Single image, Selected images, Selected

range, folder, All images on card , All found images

Protection: Selected images, Selected range, All

images. Folder

Self Timer 2 sec, 10 sec

Menu Categories (1) Shooting menu

(2) Playback menu

(3)Communication features menu

(4) Function settings menu

(5) Display level settings menu

(6) My Menu

Menu Languages 29 Languages

English, German, French, Dutch, Danish, Portuguese,

Finnish, Italian, Norwegian, Swedish, Spanish, Greek,

Russian, Polish, Czech, Hungarian, Romanian,

Ukrainian, Turkish, Arabic, Thai, Simplified Chinese,

Traditional Chinese, Korean, Malay, Vietnamese,

Indonesian, Hindi, Japanese

Firmware Update Firmware update possible by the user via SD card,

EOS Utility or Camera Connect app

INTERFACE

Computer Hi-Speed USB (USB 2.0), USB Type-C terminal

Wi-Fi Wireless LAN (IEEE802.11b/g/n) (2.4 GHz), with

Bluetooth 4.2 support Features supported - EOS Utility,

Smartphone, Upload to image.canon, Wireless

printing

Other HDMI (Micro - Type-D connector), HDR output to

compatible TV supported

External microphone in (3.5mm stereo mini jack)

DIRECT PRINT

Canon Printers Canon Compact Photo Printers and PIXMA

Printers supporting PictBridge

PictBridge PictBridge-compatible (wireless LAN) printer

compatible

STORAGE

Type SD, SDHC, SDXC (UHS-I compatible)

SOFTWARE

Image Processing Digital Photo Professional

Other Picture Style Editor, EOS Utility, Image Transfer

Utility

Camera Connect app available on iOS and

Android devices

POWER SOURCE

Batteries 1 x Rechargeable Li-ion Battery LP-E17

Battery life Viewfinder: Approx. 340 shots (Based on CIPA standards)

Live view: Approx 430 shots (Based on CIPA standards)

4K Movie Recording: Approx. 110 mins

Full HD Movie Recording: Approx 160 mins

Playback time when playing back a slideshow of still images: Approx. 190 mins (With a new, fully charged LP-E17)

Battery Indicator 4 levels

Power saving Display off (15, 30 sec or 1, 3, 5, 10, 30 mins)

Auto Power Down (30 sec or 1, 3, 5, 10 mins, Disable)

Viewfinder off (1, 3 min, disable)

Power saving mode

Power Supply & Battery

Chargers

Battery charger LC-E17E

AC adapter AC-E6N

DC Coupler DR-E1826

ACCESSORIES

Wireless File Transmitter Not compatible

Cases / Straps Protecting cloth PC-E1 / PC-E2



Strap provided

Lenses RF and RF-S lenses

EF and EF-S lenses compatible via adapter

EF-M lenses not compatible²⁷

Lens Adapters Mount Adapter EF-EOS R, Drop-in Filter Mount

Adapter EF-EOS R28

Flash EL series Speedlites: EL-1 / EL-100

EX series Speedlites / Macrolite

Speedlite Transmitter ST-E3-RT (Ver. 2) / ST-E3-

RT / ST-E2

Off-Camera shoe cord OC-E329

Remote Controller/

Switch

Bluetooth Remote BR-E1

Tripod grip HG-100TBR

Remote Switch RS-60E330

Other Interface cable IFC-100U

Interface cable IFC-400U

Mount Adapter EF-EOS R

PHYSICAL

SPECIFICATIONS

Body Materials Mainly polycarbonate resin with glass fibre

that incorporates an aluminium alloy

Operating Environment 0 – 40 °C, 85% or less humidity

Dimensions (WxHxD) 116.3 x 85.5 x 68.8mm

Weight (body only) Approx. 356 g³