

# Clifton Cameras Specifications Sheet

For the

## Canon EOS 1DX Mark III Digital SLR

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### Image Sensor

**Type**

36 x 24 mm CMOS

**Effective Pixels**

Approx. 20.1 M

**Total Pixels**

Approx. 21.4 M

**Aspect Ratio**

3:2

**Low-Pass Filter**

Built-in/Fixed with Self Cleaning Sensor Unit

**Colour Filter Type**

Primary Colour

### Image Processor

**Type**

DIGIC X

### Lens

**Lens Mount**

EF (excludes EF-S/EF-M lenses)

### **Focal Length**

1.x Multiplication with EF lens fitted

## **SLR FOCUSING**

### **Type**

TTL secondary image-forming phase-difference detection using AF-dedicated sensor

### **AF System / Points**

191 Point/155 f/4 cross-type AF points inc 1 dual cross type at f/2.8 <sup>1</sup>

The number of cross-type AF points will differ depending on the lens.

### **AF working range**

EV -4 to 21 (at 20°C & ISO 100)

### **AF Modes**

One Shot

AI Focus

### **AF Point Selection**

Automatic selection: 191 point AF (inc face tracking and Eye AF)

Manual selection: Single point AF (selectable points all points, 61, 15, 9 or cross type only points selectable)

Manual selection: Spot AF

Manual selection: AF point Expansion 4 points (up, down, left, right)

Manual selection: AF point Expansion surrounding 8 points

Manual selection: Zone AF

Manual selection: Large Zone AF

AF points can be selected separately for vertical and horizontal shooting

### **Selected AF point display**

Superimposed in viewfinder and indicated on LCD panel

### **AF Lock**

Locked when shutter button is pressed half way or AF ON is pressed in One Shot AF mode.

### **AF Assist Beam**

Emitted by an optional dedicated Speedlite

### **Manual Focus**

Selected on lens

### **AF Microadjustment**

Manual: Enter adjustment level +/- 20 steps

Adjust all lenses by same amount

Adjust up to 20 lenses individually

Adjust per lens serial number

## **Exposure Control**

### **Metering modes**

400,000-pixel RGB+IR metering sensor, 384-zone metering

(1) Evaluative metering (linked to All AF point)

(2) Partial metering (approx. 6.2% of viewfinder at centre)

(3) Spot metering: Center spot metering (approx. 1.5% viewfinder at centre)

AF point-linked spot metering

Multi-spot metering

(4) Centre weighted average metering

### **Metering Range**

EV 0-20 (at 23°C with 50 mm f1.4 lens ISO 100) EV -3-20 in Live and movie

### **AE Lock**

Auto: Operates in 1-shot AF mode with evaluative metering when focus is achieved

Manual: By AE lock button in all exposure modes

### **Exposure Compensation**

+/-5 EV in 1/3 or 1/2 stop increments (can be combined with AEB).

### **AEB**

2, 3, 5 or 7 Shots +/-3 EV 1/3 or 1/2 stop increments

### **Anti-flicker shooting**

Yes. Flicker detected at a frequency of 100 Hz or 120 Hz. Maximum continuous shooting speed may decrease

### **ISO Speed Equivalent**

Stills: 100-102400 (in 1/3-stop increments) ISO can be expanded to L: 50 or H1: 204800, H2: 409600, H3: 819200 (selected in Custom Function)

## **Shutter**

### **Type**

Vertical-travel mechanical focal-plane shutter, electronically controlled at all speeds/Sensor Electronic shutter

### **Speed**

30 - 1/8000 sec. (1/3 stop increments), Bulb

### **Shutter Release**

Soft touch electromagnetic release

## White Balance

### Type

Auto white balance with the imaging sensor

### Settings

Auto (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 +/-9.

### WB Bracketing

+/-3 levels in single level increments

3, 2, 5 or 7 bracketed images per shutter release

Selectable Blue/Amber bias or Magenta/Green bias.

## Viewfinder

### Viewfinder

Pentaprism

### Coverage (Vertical/Horizontal)

Approx. 100%

### Magnification

0.76x <sup>2</sup>

### Eyepoint

20 mm

### **Dioptre Correction**

-3 to +1 dpt

### **Focusing Screen**

fixed

### **Mirror**

Quick-return all surface half mirror

### **Viewfinder Information**

AF information: Single/Spot AF points, AF Frame, AF status, Focus indicator, AF mode, AF point selection, AF point registration

Exposure information: Shutter speed, aperture value, ISO speed (always displayed), AE lock, exposure level/compensation, flash metering, spot metering circle, exposure warning, AEB, metering mode, shooting mode, time

Flash information: Flash ready, high-speed sync, FE lock, flash exposure compensation, red-eye reduction light.

Image information: Card information, maximum burst (2 digit display), Highlight tone priority (D+).

Composition information: Crop area, Aspect ratio, Grid, Electronic level

Other information: Battery check, Warning symbol, Flicker Detection, drive mode, white balance, JPEG/RAW indicator

### **Depth of field preview**

Yes

### **Eyepiece shutter**

Built in

### **LCD Monitor**

**Monitor**

3.2" (8.01 cm) TFT, approx. 2.1 million dots

**Coverage**

Approx. 100%

**Viewing Angle (horizontally/vertically)**

Approx. 170°

**Coating**

Anti-reflection and Solid Structure

**Brightness**

Auto: Using external ambient light sensor

Manual: Adjustable to one of seven levels

4 color tone Adjustable settings

**Display Options**

(1) Quick control Screen

(2) Camera settings

(3) Dual Axis Electronic Level

(4) Custom Quick control screen

**Flash****Modes**

E-TTL II Auto Flash, Metered Manual

**X-sync**

1/250 sec

**Flash Exposure Compensation**

+/-3 EV in 1/3-stop increments with EX series Speedlites

### **Flash Exposure Bracketing**

Yes, with compatible External Flash

### **Flash Exposure Lock**

Yes

### **HotShoe / PC terminal**

Yes/Yes

### **Second Curtain Synchronisation**

Yes

### **External Flash Compatibility**

E-TTL II with EX series Speedlites, wireless multi-flash support

### **External Flash Control**

via camera menu screen

## **Shooting**

### **Modes**

Program AE, Shutter priority AE, Aperture priority AE, Manual, 3x Custom settings

### **Picture Styles**

Auto, Standard, Portrait, Landscape, Neutral, Faithful, Monochrome, Fine Detail, User Defined (x3)

### **Colour Space**

sRGB and Adobe RGB

### **Image Processing**

Clarity (8 levels)



Highlight Tone Priority (2 settings)

Auto Lighting Optimizer (4 settings)

Long exposure noise reduction

High ISO speed noise reduction (4 settings)

Lens optical correction:

- Peripheral illumination correction (stills and video)
- Chromatic aberration correction (stills and video)
- Distortion correction (during or after still photo shooting)
- Diffraction correction (stills and video)
- Digital Lens Optimizer (during or after still photo shooting)

Resize to M1, M2 or S <sup>3</sup>

RAW image processing - during image Playback only

Crop images/rotate (3:2, 16:9, 4:3, 1:1, 2:3, 9:16, 3:4 ratios)

Multiple exposure

### **Drive modes**

Single, Continuous L, Continuous H, Self timer (2s+remote, 10s+remote), S single soft shooting, continuous soft shooting

### **Continuous Shooting**

Max. Approx. 16ps.

Max. 20 fps in Live View mode with mirror locked up with exposure and AF tracking

(speed maintained for unlimited number of JPEGs or over 1000 RAW images) <sup>4</sup>

## **Live View Mode**

**Type**

Electronic viewfinder with image sensor

### **Coverage**

Approx. 100% (horizontally and vertically)

### **Frame Rate**

For Stills 29.97 fps/for Movies 59.94 fps/29.97 fps (NTSC) 50.00 fps/25.00 fps (PAL)

### **Focusing**

Manual Focus (Magnify the image 5x or 10x at any point on screen)

Autofocus: Dual Pixel CMOS AF (Face+Tracking

Spot AF

1-point AF

Expand AF area:

Expand AF area: Around

Zone AF

Large Zone AF: Vertical

Large Zone AF: Horizontal)

### **Metering**

Real-time evaluative metering with image sensor (384-zone)

Partial metering (approx. 5.8% of Live View screen)

Spot metering (approx. 2.9% of Live View screen)

Center-weighted average metering

Active metering time can be changed

### **Display Options**

Grid overlay (x3), Basic shooting information, Detailed shooting information, Histogram, Electronic Level

## File Type

### Still Image Type

JPEG: 10 compression options

HEIF: 10 compression options (10bit 422 BT2100)

RAW: RAW, CRAW

Complies with Exif 2.31 and Design rule for Camera File system 2.0

Complies with Digital Print Order Format [DPOF] Version 1.1

### RAW+JPEG simultaneous recording

Yes, any combination of RAW + JPEG/HEIF possible, separate formats to separate cards possible

### Image Size

JPEG/HEIF: (L) 5472x3648, (M1) 4368x2912, (M2) 3648x2432, (S) 2736x1824

HEIF: 5472x3648

RAW: (RAW/C-RAW) 5472x3648

### Folders

New folders can be manually created and selected

### File Numbering

(1) Consecutive numbering

(2) Auto reset

(3) Manual reset

## EOS Movie

## **Movie Type**

RAW: CRM 12bit Audio: Linear PCM

MP 4 Video: 4K (8bit MPEG4 AVC/H.264, 10bit MPEG4/HEVC with Canon log), Full HD - MPEG4 AVC/H.264, Audio: Linear PCM

MP4 Video: Full HD IPB light - MPEG4 AVC/H.264, Audio: AAC

## **Movie Size**

4K RAW (5496x2904) - (23.98, 24, 25, 29.97, 50, 59.94 fps)

4K DCI (17:9) - 4096x2160 (23.98, 24, 25, 29.97, 50, 59.94 fps) intra or inter frame

4K UHD (16:9) - 3840x2160 (23.98, 25, 29.97, 50, 59.94 fps) intra or inter frame

4K DCI cropped (17:9) - 4096x2160 (23.98, 24, 25, 29.97, 50, 59.94 fps) intra or inter frame

Full HD (16:9) - 1920x1080 (23.98, 24, 25, 29.97, 50, 59.94 fps) intra or inter frame plus IPB light

## **Simultaneous recording**

Yes: RAW to card in slot 1 Proxy (MP4) to card in slot 2

## **Colour Sampling (Internal recording)**

4K - YCbCr4:2:2 (8-bit)

Full HD/HD - YCbCr4:2:0 (8-bit)

## **Canon Log**

Yes Log 1

## **Movie Length**

4K and Full HD - Max duration 29 min 59 sec. (excluding High Frame Rate movies). No 4GB file limit with exFAT CF card.

## **High Frame Rate Movie**

MOV Video: Full HD - 1920x1080 at 100 fps or 119.9 fps

Recorded as 1/4-speed slow motion movie

Single scene maximum recording up to 7 min 29 sec.

#### **4K Frame Grab**

8.3-megapixel JPEG still image frame grab from 4K movie possible

#### **Bitrate / Mbps**

5.5K RAW: (50/59.94p) Approx. 2600 Mbps (30/25/24/23.98p) Approx. 1800 Mbps

#### **Canon Log off (H264 MP4)**

4K DCI (50/59.94p): ALL-I Approx. 940 Mbps, IPB Approx. 230 Mbps

4K DCI (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 470 Mbps, IPB Approx. 120 Mbps

4K DCI cropped (50/59.94p): ALL-I Approx. 940 Mbps, IPB Approx. 230 Mbps

4K DCI cropped (29.97p/25p/24.00p/23.98p): ALL-I Approx. 470 Mbps, IPB Approx. 120 Mbps

4K UHD (50/59.94p): ALL-I Approx. 940 Mbps, IPB Approx. 230 Mbps

4K UHD (29.97p/25p): ALL-I Approx. 470 Mbps, IPB Approx. 120 Mbps

Full HD (119.90p/100p): ALL-I: Approx. 360 Mbps

Full HD (59.94p/50.00p): ALL-I: Approx. 180 Mbps

Full HD (59.94p/50.00p): IPB Approx. 60 Mbps

Full HD (29.97p/25p): ALL-I: Approx. 90 Mbps

Full HD (29.97p/25p): IPB: Approx. 30 Mbps

Full HD (29.97p/25p): IPB light: Approx. 12 Mbps

## **Canon Log on (H265 MP4)**

4K DCI (50/59.94p): ALL-I Approx. 1000 Mbps, IPB Approx. 340 Mbps

4K DCI (29.97p/25.00p/24.00p/23.98p): ALL-I Approx. 470 Mbps, IPB Approx. 170 Mbps

4K DCI cropped (50/59.94p): ALL-I Approx. 1000 Mbps, IPB Approx. 340 Mbps

4K DCI cropped (29.97p/25p/24.00p/23.98p): ALL-I Approx. 470 Mbps, IPB Approx. 170 Mbps

4K UHD (50/59.94p): ALL-I Approx. 1000 Mbps, IPB Approx. 340 Mbps

4K UHD (29.97p/25p): ALL-I Approx. 470 Mbps, IPB Approx. 170 Mbps

Full HD (119.90p/100p): ALL-I: Approx. 470 Mbps

Full HD (59.94p/50.00p): ALL-I: Approx. 170 Mbps

Full HD (59.94p/50.00p): IPB Approx. 90 Mbps

Full HD (29.97p/25p): ALL-I: Approx. 135 Mbps

Full HD (29.97p/25p): IPB: Approx. 45 Mbps

Full HD (29.97p/25p): IPB light: Approx. 18 Mbps

## **Microphone**

Built-in stereo microphones (48 kHz, 16-bit x 2 channels)

## **HDMI Display**

External Monitor only, External Monitor only without information display or Simultaneous on camera and external monitor

## **HDMI Output**

4K and Full HD recording, uncompressed YCbCr 4:2:0, 8-bit BT709, or YCbCr 4:2:2, 10-bit BT2020 with Canon Log sound output via HDMI is also possible

## **Focusing**

Dual Pixel CMOS AF with Face Detection and Tracking AF, Movie Servo AF Manual Focus

## **ISO**

100-25600 (in 1/3-stop increments) ISO can be expanded to or H1: 51200, H2: 102400, H3: 204800 (selected in Custom Function)

## **Movie Digital IS**

Yes, image area when enabled: reduced by 10%

## **Other Features**

### **GPS**

Built in - Longitude, Latitude, Elevation, Coordinated Universal Time

- GPS satellites (USA)
- GLONASS satellites (Russia)
- Quasi-Zenith Satellite Michibiki (Japan)

### **Custom Functions**

38 Custom Functions

### **Metadata Tag**

Author, copyright, Image rating (0-5 stars) GPS, Rating, IPTC (registered with EOS Utility/browser remote)

### **LCD Panel (EL) / Button Illumination**

Yes/Yes

### **Water / Dust resistance**

Yes

### **Voice Memo**

Yes

### **Intelligent Orientation Sensor**

Yes

### **Histogram**

Brightness: Yes

RGB: Yes

### **Playback zoom**

1.5x - 10x

### **Display Formats**

(1) Single image with information (2 levels)

(2) Single image

(3) 4 image index

(4) 9 image index

(5) 36 image index

(6) 100 image index

(7) Jump Display

(8) Movie edit

(9) Raw processing

(10) Rating

### **Image Erase Protection**

Erase protection of one image at a time, folder or card

### **Image Erase**



Single image, selected, folder, card or all unprotected

### **Self Timer**

2 or 10 sec.

### **Menu Categories**

(1) Shooting Menu 1 - 4 (separate photo/video)

(2) AF menu 1 - 5

(3) Network 1

(4) Playback menu 1 - 3

(5) Setup menu 1- 5

(6) Custom functions 1- 9

(7) My Menu (1-5 user selectable)

### **Menu Languages**

English, German, French, Dutch, Danish, Portuguese, Finnish, Italian, Norwegian, Swedish, Spanish, Greek, Russian, Polish, Czech, Hungarian, Romanian, Ukraine, Turkish, Arabic, Thai, Simplified Chinese, Traditional Chinese, Korean, Indonesian, Malaya and Japanese.

### **Firmware Update**

Update possible by the user. (Camera, Lens, WFT, External Speedlite)

### **Body Materials**

Magnesium Alloy

## **Interface**

### **Computer**

USB 3.1 Gen 2 (PTP)

### **Wi-Fi**

Wireless LAN (IEEE802.11b/g/n) (2.4 GHz only), with Bluetooth support<sup>5</sup> Features supported - EOS Utility, Smartphone, Upload to Web

### **Other**

HDMI (mini), External microphone (Stereo mini jack) Headphone Jack, RJ-45, N3 remote release terminal, Flash PC connector

## **Memory Card**

### **Type**

CFexpress 1.0 Type B

## **Supported Operating System**

### **PC**

Windows 8.1 and Windows 10 (tablet mode not supported)

### **Macintosh**

Mac OS 10.14 (Mojave)

Mac OS 10.13 (High Sierra)

Mac OS 10.12 (Sierra)

OS X 10.11 (El Capitan)

## **Software**

### **Other**

EOS Utility 3, Picture Style Editor, WFT utility, Camera connect app (iOS/Android)

### **Image Manipulation**

Digital Photo Professional 4, Digital Photo Professional Express for iPad (RAW Image Processing),

## **Power Source**

## **Batteries**

Rechargeable Li-ion Battery LP-E19, LP-E4N

(LP-E19 battery supplied)

## **Battery life**

Viewfinder shooting Approx. 2850 (at 20°C) <sup>6</sup>

Viewfinder shooting Approx. 2360 (at 0°C) <sup>7</sup>

Live View shooting Approx. 610 (at 20°C) <sup>8</sup>

Live View shooting Approx. 530 (at 0°C) <sup>9</sup>

4K movie recording Approx. 2 hr 20 mins (at 20°C) (movie Servo AF disabled)

## **Battery check**

Automatic displayed in 6 levels

## **Power saving**

Power turns off after 1, 2, 4, 8, 15 or 30 mins.

## **AC Power Supply**

Power adapter AC-E19/DR-E19

# **Accessories**

## **Lenses**

All EF lenses (excludes EF-S lenses)

## **Flash**

Canon Speedlites (90EX, 220EX, 270EX, 270EX II, 320EX, 380EX, 420EX, 430EX, 430EX II, 430EX III, 470EX AI, 550EX, 580EX, 580EX II, 600EX-RT, 600EX, 600EX-II RT, EL 100, Macro-Ring-Lite MR-14EX, Macro-Ring-Lite, MR-14EX II, Macro Twin Lite MT-24EX, Speedlite Transmitter ST-E2, Speedlite Transmitter ST-E3-RT)

## **Remote Controller / Switch**

Remote control with N3 type contact and Speedlite 600EX-II RT

**Power Supply & Battery Chargers**

Battery Pack LP-E19, Battery Pack LP-E4N, Battery charger LC-E19, Power Adapter AC-E19/DR-E19

**Other**

Wireless File Transmitter WFT-E9, Eyecup Eg, Eg-series Dioptric Adjustment Lens with Rubber Frame Eg, Anti Fog Eyepiece Eg, Angle Finder C, Hand Strap E1/E2