# Clifton Cameras Product Specification

## Panasonic Lumix DMC-LX15 Camera Full Spec

**Metrics**

**Dimensions**

(W x H x D) 105.5 x 60 x 42 mm (4.15 x 2.36 x 1.65 inch)

**Weight**

Approx. 310 g with Battery and SD Memory Card (0.68 lb)

Approx. 280 g without Battery and SD Memory Card (0.62 lb)

**Optics**

**Pixels** Camera Effective Pixels 20.1 Megapixels

 **Sensor** Sensor Size / Total Pixels / Filter 1-type High Sensitivity MOS Sensor / 20.9

Total Megapixels / Primary Color Filter

 **Lens**

Aperture F1.4 - 2.8 / 9 Diaphragm Blades (F1.4 - 11.0 (W), F2.8 - 11.0 (T))

**Optical Zoom** 3x

**Focal Length**

f = 8.8 - 26.4mm

(26 - 78mm in 35mm equiv. in 4:3)

(24 - 72mm in 35mm equiv. in 3:2)

(25 - 75mm in 35mm equiv. in 16:9)

(31 - 93mm in 35mm equiv. in 1:1)

(36 - 108mm in 35mm equiv. in 4:3 4K PHOTO recording)

(36 - 108mm in 35mm equiv. in 3:2 4K PHOTO recording)

(36 - 108mm in 35mm equiv. in 16:9 4K PHOTO recording)

(38 - 114mm in 35mm equiv. in 1:1 4K PHOTO recording)

(25 - 75mm in 35mm equiv. in 16:9 video recording / O.I.S. Off / Level Shot function Off)

(27 - 81mm in 35mm equiv. in 16:9 video recording / O.I.S. On / Level Shot function Off)

(30 - 90mm in 35mm equiv. in 16:9 video recording / O.I.S. On / Level Shot function On)

(36 - 108mm in 35mm equiv. in 4K video recording)

**Extra Optical Zoom (EZ)**

4.2x (3:2 / 10M (M)), 6x (3:2 / 5M (S))

**Intelligent Zoom** 6x

**Lens**

LEICA DC VARIO-SUMMILUX

11 elements in 9 groups

(4 aspherical lenses (dual-sided aspherical surfaces) / 2 aspherical ED lenses (dual-sided aspherical surfaces) / 1 UHR lens)

**Optical Image Stabilizer**  5-Axis HYBRID O.I.S. +\* \* 5-Axis compensation works in video recording except for 4K video or high-speed video recording.

**Digital Zoom** Max. 4x (When Digital Zoom is used simultaneously with Intelligent Zoom, you can only increase the zoom ratio up to 2x.)

**Focusing Area**

Normal: Wide 30 cm - infinity / Tele 30 cm - infinity

AF Macro / MF / Intelligent Auto / Motion Picture: Wide 3 cm - infinity / Tele 30 cm - infinity

**AF Assist Lamp** Yes (On / Off)

**Focus**

AF / AF Macro / Macro Zoom \* Each available with AFS (Single) / AFF (Flexible) / AFC (Continuous) / MF

Quick AF, Continuous AF (during motion picture recording), Touch AF/AE Function, Touch Shutter, MF Assist, Touch MF Assist, AF+MF, Focus Peaking, One Shot AF (Set the Fn button in custom menu to AF-ON), Low Light AF, Starlight AF

**Post Focus** Yes

**Focus Stacking** Yes

**AF Metering**

Face/Eye Detection / Tracking / 49-area / Custom Multi / 1-area / Pinpoint

(Full area touch is available)

**Shutter**

**Shutter Speed**

Still Image:

Approx. 60 - 1/4,000 sec (Mechanical Shutter)

Approx. 1 - 1/16,000 sec (Electronic Shutter)

Time (Approx. 120 sec)

**Motion Picture:**

Approx. 1/25 - 1/16,000 sec

Approx. 1/2 - 1/16,000 sec (Creative Video M Mode / MF Mode)

**Finder** Viewfinder -

**Recording**

File Format Still Image: JPEG (DCF/Exif2.3) / RAW, DPOF

Motion Picture: AVCHD Progressive, AVCHD, MP4

**Recording Modes**

**Mode Dial**  Intelligent Auto, P, A, S, M, Creative Video, C (Custom), Panorama Shot, Scene Guide, Creative Control

**Creative Control Mode** Expressive, Retro, Old Days, High Key, Low Key, Sepia, Monochrome, Dynamic Monochrome, Rough Monochrome, Silky Monochrome, Impressive Art, High Dynamic, Cross Process, Toy Effect, Toy Pop, Bleach Bypass, Miniature Effect, Soft Focus, Fantasy, Star Filter, One Point Color, Sunshine (22 filters)

**Still Image Scene Guide** Clear Portrait, Silky Skin, Backlit Softness, Clear in Backlight, Relaxing Tone, Sweet Child's Face, Distinct Scenery, Bright Blue Sky, Romantic Sunset Glow, Vivid Sunset Glow, Glistening Water, Clear Nightscape, Cool Night Sky, Warm Glowing Nightscape, Artistic Nightscape, Glittering Illuminations, Handheld Night Shot, Clear Night Portrait, Soft Image of a Flower, Appetizing Food, Cute Dessert, Freeze Animal Motion, Clear Sports Shot, Monochrome

**Continuous Shooting Mode (Approx.)** [AFS] SH: 50 frames/sec\*, H: 10 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)

[AFC] H: 6 frames/sec, M: 6 frames/sec (with Live View), L: 2 frames/sec (with Live View)

\* Electronic shutter only.

**4K Photo Mode (\*2)**

4K Burst: 30 frames/sec, max. 15 min

4K Burst (S/S): 30 frames/sec, max. 15 min

4K Pre-Burst: 30 frames/sec, approx. 2 sec

(Depending on memory card size and battery power)

Exif Information: Yes

Marking Function: Yes (in 4K Burst (S/S) mode)

**Motion Picture Recording (\*2)**

4K Video 3840 x 2160 pixels, 30p (4K: 100Mbps / MP4) (Sensor Output is 30fps) (AAC)

3840 x 2160 pixels, 25p (4K: 100Mbps / MP4) (Sensor Output is 25fps) (AAC)

3840 x 2160 pixels, 24p (4K: 100Mbps / MP4) (Sensor Output is 24fps) (AAC)

**HD Video**

1920 x 1080 pixels, 50p (FHD: 28Mbps / AVCHD) (Sensor Output is 50fps) (Dolby)

1920 x 1080 pixels, 24p (FHD: 24Mbps / AVCHD) (Sensor Output is 24fps) (Dolby)

1920 x 1080 pixels, 50i (FHD: 24Mbps / AVCHD) (Sensor Output is 25fps) (Dolby)

1920 x 1080 pixels, 50i (FHD: 17Mbps / AVCHD) (Sensor Output is 50fps) (Dolby)

1920 x 1080 pixels, 60p (FHD: 28Mbps / MP4) (Sensor Output is 60fps) (AAC)

1920 x 1080 pixels, 50p (FHD: 28Mbps / MP4) (Sensor Output is 50fps) (AAC)

1920 x 1080 pixels, 30p (FHD: 20Mbps / MP4) (Sensor Output is 30fps) (AAC)

1920 x 1080 pixels, 25p (FHD: 20Mbps / MP4) (Sensor Output is 25fps) (AAC)

1280 x 720 pixels, 30p (HD: 10Mbps / MP4) (Sensor Output is 30fps) (AAC)

1280 x 720 pixels, 25p (HD: 10Mbps / MP4) (Sensor Output is 25fps) (AAC)

**High Speed Video** 1

920 x 1080 pixels, 25p (FHD: MP4) (Sensor Output is 100fps)

**Continuous Recordable Time (Motion Picture) (\*2)**

AVCHD FHD/50p: Approx. 70 min

FHD/50i: Approx. 70 min

**MP4**

4K/30p, 4K/25p: Approx. 60 min

FHD/60p, FHD/50p: Approx. 70 min

**Actual Recordable Time (Motion Picture) (\*2)**

AVCHD FHD/50p: Approx. 35 min

FHD/50i: Approx. 35 min

**MP4**

4K/30p, 4K/25p: Approx. 30 min

FHD/60p, FHD/50p: Approx. 35 min

**Exposure Parameters**

**Exposure** Program AE, Aperture Priority AE, Shutter Priority AE, Manual

**Exposure Compensation** 1/3 EV step, +/-5 EV (+/-3 EV for motion picture)

**Light Metering** Intelligent Multiple / Center Weighted / Spot

**ISO Sensitivity**

Still Image: Auto / i.ISO / 80\* / 100\* / 125 / 200 / 400 / 800 / 1600 / 3200 / 6400 / 12800 / 25600\*

Motion Picture: Auto / 125 / 200 / 400 / 800 / 1600 / 3200 / 6400

(Changeable to 1/3 EV step)

\* Extended ISO

**Picture Quality**

**Still Picture Recording**

4:3 4864x3648 (17.5M) (L) / 3456x2592 (9M) (M) / 2432x1824 (4.5M) (S)

3:2 5472x3648 (20M) (L) / 3888x2592 (10M) (M) / 2736x1824 (5M) (S)

16:9 5472x3080 (17M) (L) / 3840x2160 (8M) (M) / 1920x1080 (2M) (S)

1:1 3648x3648 (13.5M) (L) / 2592x2592 (6.5M) (M) / 1824x1824 (3.5M) (S)

**Image Quality** RAW / RAW+Fine / RAW+Standard / Fine / Standard

**White Balance**

Auto / Daylight / Cloudy / Shade / Incandescent / Flash / White Set1 / White Set2 / White Set3 / White Set4 / Color Temperature

(2-axis adjustable)

**Photo Style** Standard, Vivid, Natural, Monochrome, Scenery, Portrait, Custom

**Picture Adjustment**

Contrast, Sharpness, Noise Reduction, Saturation\*, Color Tone\*\*, Filter Effect\*\*

\* Except for Monochrome mode. \*\* For Monochrome mode only.

**Bracket**

**AE Bracket** 3, 5, 7 images in 1/3, 2/3 or 1 EV step, Max. +/-3 EV

**Aperture Bracket** 3, 5 or all positions in 1 EV step

**Focus Bracket** 1 to 999 images, focus steps can be set in 5 levels

**White Balance Bracket** 3 exposures in blue/amber axis or in magenta/green axis

**Other**

**Digital Red Eye Correction (Red-Eye Removal)** Yes (On / Off)

**GPS** -

**Wi-Fi**

IEEE 802.11b/g/n 2412 MHz - 2462 MHz (1-11 ch)

WPA / WPA2

Infrastructure Mode / WPS

**NFC** -

**Zoom in Motion Picture** Yes

**Self Timer** 2 sec / 10 sec / 10 sec (3 images)

**Self Shot Mode** Yes

**Playback**

**Display**

Playback Mode All, Slideshow, Filtering Play (Picture Only, Video Only, 4K PHOTO, Post Focus, Category Selection, Favorite), Calendar

**Thumbnails / Zoomed Playback** 12,30-thumbnails / Yes

**Set Favorites / Rotate Image**  Yes / Yes

**Show Histogram / Show Highlights** Yes / Yes

**DPOF Print Setting / Set Protection** Yes / Yes

**Edit**

**Retouch**  Clear Retouch

**RAW Processing** Yes

**Resize / Cropping**  Yes / Yes

**Title Edit / Text Stamp** Yes / Yes

**Video Divide** Yes

**PictBridge Support**  Single / Multi / All / DPOF / Favorites

**Setup**

**OSD Language**  Please refer to "OSD" Sheet

**Others**

**Monitor** LCD Monitor

7.5cm (3.0") TFT Screen LCD Display (1040k dots), Tiltable monitor

Static Touch Control

Field of View: Approx. 100%, Wide Viewing-angle, AF Coating

**Flash**

Built- in- Flash Auto\*, Auto/Red-eye Reduction\*, Forced On, Forced On/Red-eye Reduction, Slow Sync., Slow Sync./Red-eye Reduction, Forced Off \* For iA, iA+ mode only.

0.5 - 12.1m (Wide / ISO Auto), 0.3 - 6.0m (Tele / ISO Auto)

**Media**

Recording Media SD Memory Card, SDHC Memory Card, SDXC Memory Card

(Compatible with UHS-I UHS Speed Class 3 standard SDHC / SDXC Memory Cards)

**Built- in- Memory**  -

**Audio** Microphone / Speaker Stereo / Mono

**Interface**  microHDMI typeD (\*3), USB2.0 Micro-B

**Power**

Li-ion Battery Pack (7.2V, 680mAh, 4.9 Wh) (Included)

USB Power Charging

**Battery Life (Approx.)** 260 images (CIPA Standard) (\*1)

**Standard Package**

Included Software ・ The software to process RAW file on PC is not bundled with DMC-LX15. To do this, SILKYPIX Developer Studio is available for download at Ichikawa Soft Laboratory's website using PC connected to the Internet.

・ The DMC-LX15 Operating Instructions for advanced features is available for downloaded at Panasonic LUMIX Customer Support Site using PC, smartphone or tablet connected to the Internet.

・ The software for PC is not bundled with DMC-LX15. Please use the software pre-installed to the PC or other general image viewing software to browse pictures.

**Standard Accessories**

Please refer to "Accessories" Sheet