

# Clifton Cameras Product Specification

## Olympus OM-D E-M1X Camera

### Imaging

**Lens Mount** Micro Four Thirds **Image Sensor** 4/3" Live MOS sensor **Effective Megapixels** 20.4 **Full Resolution** 21.8 Megapixels **Filter Array** Primary Colour Filter **Aspect ratio and area** 4:3 / 17.3 x 13.0mm **Processor** 2x TruePic VIII **Dust Reduction Filter** Supersonic Wave Filter **White balance** Advanced Auto WB system with live MOS sensor

### Focusing

**Method** phase difference detection and contrast detection systems **Focus areas** 121 points and cross-type phase detection autofocus // 121 points and contrast autofocus // All target, single target (normal / small), group target (5-area / 9-area / 25-area), custom target 1-4 (AF area and its increment steps selectable) **Autofocus operational range** -6 -20EV (ISO approx. 100 with an f1.2 lens) **Autofocus Lock** Yes **Focus Modes** Manual, Preset Manual, Single AF, Continuous AF, AF Tracking, Stacking, Bracketing **Illuminated AF** Yes **Manual Focus** Yes **Face detection extension** Eye Detect AF: Off, Left side priority, Near side priority, Right side priority **Predictive AF** Yes **AF Tracking** Yes (in continuous mode) **Intelligent tracking** Formula Cars, Rally Cars, Motorbikes, Aircraft, Trains

**Focus Peaking: Colour Selection** White, black, yellow, red **Intensity** Low/Normal/High **Back light effect** On/off **Focus Bracketing: No. Images** 3-999shots **Step size** 10 levels **Compatible** with all Micro Four Thirds AF Lenses

### Stabilization

**Stabilization** Sensor Shift **Modes** Five Dimensional, vertical or horizontal activation, automatic **Effective compensation range** Up to 7.0EV steps **Live View Stabilisation** Yes

### Shutter Speed

**Shutter speed range** 1/8000 – 60s (1/3 1/2 1 EV steps) **Bulb mode** Up to 30 minutes (selectable longest time in menu, default: 8 minutes)

### Exposure System

**Modes** Programme automatic, Aperture priority, Shutter priority, Manual, Bulb, Time, Movie, HDR, My mode, Custom shooting, Custom 1, Custom 2 **Exposure compensation** +/- EV (1, 1/2, 1/3 steps) **Exposure Bracketing** 2/3/5 frames (+/- 1/3, 2/3, 1 EV steps) / 7 frames (+/- 1/3, 1/2, 2/3 EV steps) **ISO Bracketing** 3 frames (1/3, 1/2, 1 EV steps) **AE Lock** Yes **My Mode** 4 settings storable **Enhancement function** Digital Shift (horizontal and vertical compensation can be performed simultaneously) / Shadow Adjustment Technology / Flicker Scan: Available for M, S and silent mode (can be confirmed in Live View) **HDR Bracketing** 3/5 Frames (+/- 2 / 3 EV steps) 7 frames (+/- 2 EV steps)

**Multi Exposure: Max number frames** 2 frames (shooting) 3 frames (editing) **Auto gain control** Yes **Frame assistance** Live view

**Light metering: Method** TTL open aperture light metering **Zones** 324 zones Multi-pattern Sensing System **Detection range** -2 - 20 EV (17mm f2.8, ISO 100) **Modes** ESP light metering, Spot metering, Centre weighted metering, Highlight, Shadow

## Viewfinder

**Type** Electronic Viewfinder **Pixel number** 2360K dots **Diopter adjustments** Yes; -4.0 - +2.0 diopters / built-in type **Field of View** approx. 100% **Magnification** Max. 1.65x with a 50mm lens set to infinity at -1 dioptre (depending on selected viewfinder style) **Eye Point** 21mm at -1 dioptre from eyepiece lens **Brightness Adjustment** Adaptive Technology & 7 Manual Steps **Correction of Colour Temperature** +/- 7 Levels **S-OVF** Expands the Live View dynamic range

## Display

**Type** Vari-angle LCD Touch Panel **Size** 7.6cm **Resolution** 1037k dot

## Live View

**Field of view** Approx. 100% **Magnification levels** 3 / 5 / 7 / 10 / 14x **Dynamic Range Extension** When in HDR1 or HDR2 **Display Modes** Comparison, Grid (4 types), Grid, Histogram, Level Gauge, Magnified View, Standard information, Off

## Video Recording

**Formats** MOV (MPEG-4AVC/H.264) **Picture modes** Flat, OM-Log400 (View assist compatible), **Image stabilization** Sensor Shift, M-IS1, M-IS2

**4K Movie Quality** 4096 x 2160 (C4K) / 24p / IPB (approx. 237 Mbps) - 3840 x 2160 (4K) / 30p, 25p, 24p / IPB (approx. 102 Mbps)

**HD Movie Quality** Full HD 1920 x 1080 (16:9) / 30p, 25p, 24p / ALL-I (A-I), IPB (SF, F, N) (MOV) Full HD 1920 x 1080 (16:9) / 60p, 50p / IPB (SF, F, N) (MOV) HD 1280 x 720 (16:9) / 60p, 50p, 30p, 25p, 24p / ALL-I (A-I), IPB (SF, F, N) ALL-I: ~ 202 Mbps Full HD IPB (SF: ~52Mbps, F: ~30Mbps) HD IPB (SF: ~26Mbps, F: ~14Mbps, N: ~10Mbps) HD 1280 x 720 (16:9) / 30p

**Max Recording Time** 29min (MOV) **Max File Size** 4GB (AVCHD) 2GB (Motion-JPEG) **Exposure Modes** Aperture priority, Manual, Programme automatic, Shutter priority

## Battery and Power

**Battery** BLH-1 Lithium-Ion **Sleep Mode** 1, 3, 5min. and off selectable **DC Input** AC-5 **Internal Charging** AC/USB **USB Charging** Performance will vary depending on connected device **USB Bus Power** PD Bus Power can be used **Battery Life** Up to 2580 shots (using quick sleep mode) **Movie Recording** 170 min, up to 350 min when zoom and other operational features are disabled.

## Other

**Body Material** Magnesium Alloy **Dimensions** 144.4 x 146.8 x 75.4mm **Weight** 997g including battery & card, 849g body only.