



### 4K CINEMATIC CAMERA

#### Specifications:

- One-piece compact 4K resolution MFT camera
- 4K @ 120fps, 10-bit colour
- 4/3" WDR CMOS Sensor
- Timelapse mode available
- 13 stops dynamic range (16 with WDR enabled)
- Gigabit Ethernet for data, control & live stream
- Full camera setting control & live preview via iOS App
- Multi-cam synchronization
- Open API & SDK
- External Power or Battery
- Dimensions 90 x 100 x 90mm, Weight 757 g.
- Comprehensive range of lenses available

This camera has many suitable applications and uses:

**The ZCAM E2 Cinematic camera is a 4K UHD (ultra-high definition) micro four-thirds (MFT) camera with an interchangeable lens system.**

The E2 camera easily captures cinema quality 4K 4096x2160 video utilising 13 stops of WDR at up to 120 fps with H.265 compression. The camera is feature rich and utilises an open source API and SDK. The E2 can be controlled in several ways including an iOS App which includes live preview and all camera setting controls. Recording is achieved on camera via a CFAST card or externally via USB 3.0.

Its micro four-thirds lens mount accommodates a wide range of auto-focus (AF) and manual-focus (MF) lenses from brands such as Olympus, Panasonic, Lumix, Leica and Sigma. All help the E2 capture some of the highest quality images possible in its market group.

**SeeSense are able to provide full technical assistance and back up for this camera. Please contact SeeSense for further details and for our recommended lens options.**

- Micro Cinematic Camera
- Film & Broadcast
- Pre-visualisation
- Natural History
- Supplementary Camera
- Filming in tight spaces / extreme angles
- POV Camera
- Bullet time array & Timelapse Imaging
- Motion Capture
- 360 & 180 Degree VR



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### Specification - Features

Image Sensor	4/3" WDR Sony CMOS sensor 17.3 x 13mm
Output Pixels	Horizontal: 4096, Vertical: 2160
Effective Pixels	10.28MP
Sync / Freq	4K @ 120 fps ~ 1080p @ 240 fps
Dynamic Range	13 stops (ZLog) / 16 with WDR enabled
Microphone	Built in Stereo Microphone
ISO	Auto, Manual 160~25600 (80~12800*. Native ISO: 80* / 160 / 800 (* with WDR active)
Shutter Modes	Auto / Manual – Off (up to 1/8000s) OR Shutter Angle Auto, Manual (11.25°~360°)
White Balance	AWB (Automatic White Balance), Preset, OR Manual (2300K ~ 7500K)
Focus Mode	Manual, Auto or Continuous Active (CAF)
Image	Brightness / Contrast / Saturation / Sharpness
LUT	Rec.709 / ZLog / Flat
Audio	Audio In / Audio Out Level
Time Code	Current Time / Manual Input
Multi-cam Sync	Via sync cable ( <b>not included</b> )
Remote Control	Z Camera App (iOS) for live preview and control via WiFi or USB cable

### Connectivity

HDMI	HDMI 2.0 TypeA (video output to C4K @ 60fps)
USB	USB-C, 3.0 (data transfer / storage)
I/O	10-pin LEMO port for synchronization *
COM	DB-9 connector, supports RS-232
Remote Control	2.5mm jack socket (Sony LANC compatible)
Audio-In	3.5mm stereo jack for active mic only, or 5-pin LEMO port for dual channel XLR mic
Audio-Out	3.5mm stereo jack
Wi-Fi	802.11n 2.4G with external antenna port
Ethernet	Gigabit Ethernet port for settings & live streaming
DC Power Port	12 V DC 5 Amps with 4-pin LEMO and PSU Hot swap is supported

### Storage

Media	CFAST 2.0 (slot beneath the camera)
File System	exFAT
External	To external drive via USB-C

### Recording

Video System	NTSC / PAL / CINEMA
Video Format	4096 x 2160 / 59.94, 50, 29.97, 25, 24, 23.98 fps 3840 x 2160 / 59.94, 50, 29.97, 25, 24, 23.98 fps 3696 x 2772 / 59.94, 50, 29.97, 25, 24, 23.98 fps 1920 x 1080 / 59.94, 50, 29.97, 25, 24 fps
Max Variable	120 fps for 4096 x 2160 & 3840 x 2160 59.94 for 3696 x 2772, 240 fps for 1920 x 1080
Max Bit Rate	230 Mbps for 4096 x 2160, 3840 x 2160 & 3696 x 2772, & 200 Mbps for 1920 x 1080
Colour Bit Depth	10 bit (H.265) / 8 bit (H.264)
Video Encoder	ProRes 4:2:2 HQ, ProRes 4:2:2, ProRes 4:2:2 LT / H.264 High Profile / H.265 main 10 profile
Audio Format	24-bit 48 kHz
Audio Encoder	AAC / PCM (for MOV only)
File Format	MOV / MP4
Record Mode	Video / Time Lapse Video

### Specification - Physical

Battery	Sony NP-F series ( <b>Battery NOT Included</b> )
Body Material	Aluminium Alloy
Lens Mount	Active Micro Four-Thirds (MFT)
Dimensions	91.2 x 99.2 x 89.1mm (WxHxD) 1080
Weight	757 grammes (excludes lens)
Camera Mount	Multiple 1/4-20 UNC Standard tripod mounts around the camera body
Operating Temperature	0°C ~ + 40°C
Storage Temperature	-20°C ~ + 60°C

### What's In The Box?

ZCAM E2 camera, LEMO Power Cable with D-TAP Plug, & Connector, AC/DC Power Supply with UK, EU & US plugs, Quick User Guide, & Warranty Card

### Optional Accessories

- Sony NP-F series battery
- Z Camera App (iOS)
- LUTs & Colour Correction Plug In
- Open API & SDK
- Video Concatenator, Video Transcoder

### Lenses

- The E2 supports a selection of Leica, Lumix, Olympus, Panasonic & Sigma, etc MFT lenses.

**Please contact SeeSense for details and advice**

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