

ELP 4K Autofocus USB Camera

Model: ELP-USB4K02AF-KV100 | Sony IMX415 Sensor | 3840x2160 @ 30fps MJPEG

4K / 30fps	Sony IMX415	Autofocus	USB 2.0	UVC Plug & Play
MJPEG & YUY2	1/2.8" Sensor	0.2 lux Min.	38x38 mm PCB	Multi-OS Support

4K Ultra HD USB Webcam

3840x2160@30fps/Rolling Shutter/Sensitivity 0.65V/Lux-sec@550nm



Technical Specifications

Parameter	Specification
Image Sensor	Sony IMX415 (1/2.8")
Max Resolution	3840(H) × 2160(V)
Pixel Size	1.45 μm × 1.45 μm
Compression Format	MJPEG / YUY2 (YUYV)
Sensitivity	1000 mV/Lux-sec
S/N Ratio	30 dB
Min. Illumination	0.2 lux
Shutter Type	Electronic Rolling Shutter
Auto Focus	Supported
AEC / AEB / AGC	All Supported
Center Definition	1000 LW/PH
USB Interface	USB 2.0 High Speed
Power Supply	USB Bus Power (DC 5V, 200 mA)
Connector	4P-2.0mm Socket
Board Size	38 mm × 38 mm
USB Cable	1 m (2/3/5 m optional)
Storage Temp.	-20°C to 70°C
Operating Temp.	0°C to 60°C

Resolution & Frame Rate

Resolution	MJPEG	YUY2
3840×2160	30 fps	1 fps
2592×1944	30 fps	1 fps
2048×1536	30 fps	3 fps
1920×1080	30 fps	5 fps
1600×1200	30 fps	5 fps
1280×960	30 fps	5 fps
1280×720	30 fps	5 fps
800×600	30 fps	20 fps
640×480	30 fps	30 fps
320×240	30 fps	30 fps

Key Features

- High-resolution 4K autofocus webcam (3840×2160)
- Advanced Sony IMX415 (1/2.8") CMOS image sensor
- Available lens: 2.1 / 2.8 / 3.6 / 6 / 8 / 12 mm
- MJPEG & YUY2 dual compression output
- UVC compliant — no driver installation required
- Adjustable: Brightness, Contrast, Hue, Saturation, Sharpness, Gamma, White Balance, Exposure

Lens Specifications

Size	FOV	IR Filter
1/2.5"	94.5°	650±10 nm

OS Compatibility

Windows XP / Vista / 7 / 8 / 10 / 11
Linux (kernel ≥ 2.6.26, UVC)
macOS X 10.4.8 or later
Android 4.0+ (UVC)
Raspberry Pi supported

Applications

- ATM / Kiosk / POS / Smart TV
- Medical diagnostic imaging
- Fingerprint / palm print capture
- Video door phone / HD surveillance
- Industrial machine vision
- Advertising / broadcasting cameras
- Body cameras / mobile terminals
- Document scanning

Specifications subject to change without notice.