

1. Product Highlights

- Ultra-lightweight, ultra-compact camera.
- 4K-class, 360° coverage helps eliminate blind spots and extends the Mark product family's field of view.
- Local eMMC storage supports week- or month-scale recording retention.
- 1.0 TOPS of AI performance with A-Log support.
- Optional mounting accessories support multiple installation configurations.

2. Use Cases

- Pet monitoring; child and older-adult monitoring; security monitoring
- Premium residences; modern offices; commercial spaces

3. Technical Specifications

Category	Parameter	Specification
Product	Product Name	Camtells Semi
	Model	EPS11C
	NPU Performance	1.0 TOPS at INT8
	Operating System	Linux 5.10.61
	Storage	eMMC: ☒ Supported ☐ Not supported ☐ Reserved in design Capacity options: 64 GB or 128 GB
	Effective Pixels	6 MP
	Maximum Resolution	2564 × 2564
	Lens Type	☒ Fixed focal length ☐ Varifocal
	Focal Length	2 mm
	Aperture	F/2.0
	Field of View	Horizontal: 185°; vertical: 185°; diagonal: 185°
Video and Audio	Frame Rate	20 fps default; 25 fps maximum
	Bit Rate	Main stream: 3 Mbps; substream: 1 Mbps
	Video Codec	☒ H.264 ☒ H.265
	Encoding Profiles	Main stream: 2560 × 2560 at 20 fps; substream: 640 × 640 at 20 fps
	Audio Codec	☒ G.711A ☐ AAC ☐ Other
	Two-Way Audio	☐ Half-duplex ☐ Full-duplex ☒ Not supported
	Network Setup	☒ Wired ☐ Wi-Fi/QR code ☐ Bluetooth
	External Ports	☒ DC power ☒ RJ45 Ethernet
Hardware and Power	Power Input	☒ DC ☐ PoE ☐ USB Type-C
	Power Adapter	12 V DC, 1 A
	Power Consumption	5 W typical; 7 W maximum
	Pan/Tilt Control	☐ Supported ☒ Not supported
	Status Indicator	☒ Single-color ☐ Two-color ☐ Three-color ☐ No indicator

Category	Parameter	Specification
	Microphone	☒ Single microphone (audio capture) ☐ Dual microphones ☐ Not supported ☐ Other
	Speaker	☐ Supported ☒ Not supported
	Sensors	6-axis IMU/gravity sensor (LSM6DS3TR-C) for down-vector output and image-orientation correction
	Button Function	☒ Reset ☐ Call ☐ End call ☐ One-touch alert ☐ Other
	Privacy	Privacy mode: ☒ Supported ☐ Not supported Physical privacy cover: ☐ Supported ☒ Not supported
Night Vision and Illumination	Night Vision Mode	☒ Infrared ☐ Full color ☐ Smart night vision (automatic switching) ☐ Not supported
	Night Vision Range	Panoramic infrared illumination: 7 m (23.0 ft)
	Minimum Illumination	Color: 0.01 lux
AI Features	Detection Algorithms	☒ Motion detection ☒ Human detection ☐ Region intrusion ☐ Line crossing ☐ Face detection and capture ☐ Other
	AI Performance	Complies with the SABC standard
Software and Protocols	Platform and Protocols	Integration protocols: ☐ GB/T 28181 ☐ ONVIF ☒ Proprietary protocol ☐ Other
		Network protocols: TCP/IP, HTTP, HTTPS, RTSP, RTP, RTCP, NTP, DHCP, DNS, UDP, IGMP, SSL/TLS
	IoT Platform Integration	☒ Supported ☐ Not supported
	OTA Updates	☒ Supported ☐ Not supported
	One-Touch Call	☐ Supported ☒ Not supported
	One-Touch Alert	☐ Supported ☒ Not supported
	Mobile App	Camtells app
	Interface Languages	English, Simplified Chinese, Traditional Chinese, Japanese, Korean, Thai, Vietnamese, Russian, German, French, Italian, Danish, Spanish, Portuguese, and Arabic
	Mechanical and Environmental	Physical Characteristics
Weight: 60-100 g (2.12-3.53 oz)		
Material: PC + ABS		
Mounting		☒ Ceiling mount ☒ Wall mount ☒ Other: optional mounting accessories
Environmental Requirements		Operating temperature: -20 to 55 °C (-4 to 131 °F)
	Operating humidity: 5% to 95% RH, non-condensing	
	Ingress protection: IP66	
Compliance and Package Contents	Certifications and Compliance	IP66, ISED Canada (IC), FCC, CE, RoHS, WEEE, and REACH
	Color Options	Black (64 GB) / White (256 GB)
	Package Contents	Camtells Semi camera × 1; mounting base/bracket × 1; screw kit × 1; RJ45 connector weatherproof cover × 1; power cable with plug × 1; installation guide × 1; video-surveillance notice label × 1
	Optional Accessories	Ethernet cable; surface-mount bracket; recessed ceiling bracket; pendant bracket; track-mount bracket; network switch; 10 Gigabit Ethernet switch; PoE adapter module; wireless adapter module