

1. Product Highlights

- 2.8-inch circular display with time, weather, and video calling - a functional statement piece for any desktop.
- Powerful built-in audio delivers an immersive music and entertainment experience without external speakers.
- A three-microphone array captures voices clearly. Sound-source localization and voiceprint recognition help filter ambient noise, pinpoint the source, and automatically track the target.
- Built-in temperature and humidity sensors detect subtle environmental changes in real time and present the data at a glance to support a healthier living environment.
- Powered by the CamAgent multimodal foundation model, the device uses AI to interpret scenes - from security monitoring to behavior analysis - and proactively deliver relevant information and alerts.



2. Use Cases

- Pet monitoring; child and older-adult monitoring; security monitoring; Bluetooth speaker; desktop display
- Video conferencing; smart home assistant; corporate brand display

3. Technical Specifications

Category	Parameter	Specification
Product	Commercial Model	Camtells Cee
	Internal Model	EPC11C
	NPU Performance	1.0 TOPS@INT8
	Operating System	Linux 5.10.61
	Memory (RAM)	256 MB embedded DDR3
	Storage	eMMC: ☒ Supported ☐ Not supported ☐ Reserved in design Capacity options: 64 GB or 128 GB

Category	Parameter	Specification
		microSD card: ☐ Supported ☒ Not supported Maximum capacity: N/A
	Effective Pixels	6MP
	Maximum Resolution	2564 × 2564
	Focal Length	3.1 mm
	Aperture	F/2.3
	Field of View	Horizontal: 86.4°; vertical: 54.6°; diagonal: 95.9° (with 1/2.7-inch sensor)
Video and Audio	Frame Rate	20 fps default; 30 fps maximum
	Bit Rate	Main stream: 2,000 kbps; substream: 512 kbps
	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
Connectivity and I/O	Wired Ethernet	☒ Not supported ☐ 10/100 Mbps auto-negotiation ☐ 10/100/1000 Mbps auto-negotiation
	Wi-Fi	Standards: IEEE 802.11b/g/n/ax
	Network Setup	☐ Wired ☒ Wi-Fi/QR code ☐ Bluetooth ☐ Acoustic ☐ 4G ☐ Zero-touch setup
	External Ports	☐ DC power ☐ RJ45 Ethernet ☐ Reset button ☐ RCA audio ☒ Other: USB Type-C
Hardware and Power	Power Input	☐ DC ☐ PoE ☒ USB Type-C ☐ Micro-USB ☐ Direct power from PoE switch
	Power Adapter	5 V DC, 3 A
	Power Consumption	≤ 13 W (peak)
	Pan/Tilt Control	☒ Supported ☐ Not supported
	Microphone	☒ Single microphone (audio capture) ☐ Dual microphone ☐ Not supported ☒ Other: microphone array (sound-source localization)
	Speaker	☒ Supported ☐ Not supported
	Speaker Rating	4 Ω / 5 W
	Bluetooth	Bluetooth 5.4
	Sensors	Accelerometer Ambient temperature and humidity sensor: temperature accuracy ±0.3 °C; humidity accuracy ±3% RH
	Reset Button Location	☐ Main board ☐ Pigtail cable ☒ Other: base
	Button Function	☒ Reset ☐ Call ☐ End call ☐ One-touch alert ☐ Other
	Display	Display: 480 × 480 resolution; 800-nit peak brightness; 2.8-inch IPS LCD Touch: 100 dpi
	Privacy	Privacy mode: ☒ Supported ☐ Not supported
Low-Light Performance	Night Vision Mode	☐ Infrared ☐ Full color ☐ Smart night vision (automatic switching) ☒ Not supported
	Low-Light Viewing Distance	≥ 3 m (9.8 ft), using display illumination to maintain a full-color image at night

Category	Parameter	Specification
	Minimum Illumination	Color: 0.01 lux
	Illuminator	Type: ☐ IR ☐ White light ☒ None
AI Features	Detection and Recognition	☒ Motion detection ☒ Human detection ☐ Region intrusion ☐ Line crossing ☒ Face detection and capture ☒ Other: sound detection, sound-source localization, and voiceprint recognition
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
	Mobile App	Camtells app
	Interface Languages	English, Simplified Chinese, Traditional Chinese, Japanese, Korean, Thai, Vietnamese, Russian, German, French, Italian, Danish, Spanish, Portuguese, and Arabic
	Local Web Configuration	☐ Supported ☒ Not supported
Mechanical and Environmental	Physical Characteristics	Dimensions (L × W × H): 104.6 × 104 × 131.3 mm (4.12 × 4.09 × 5.17 in)
		Weight: 438 g (15.45 oz)
		Material: PC + ABS
	Placement	☐ Ceiling mount ☐ Wall mount ☒ Other: tabletop
	Environmental Requirements	Operating temperature: 0 to 40 °C (32 to 104 °F)
		Operating humidity: 5% to 95% RH, non-condensing
Ingress protection: IP50		
Compliance and Package Contents	Regulatory Certifications	European Union: CE RED, RoHS, United States: FCC ID and FCC SDoC California: Proposition 65 China: CQC and SRRC
	Environmental Compliance	RoHS, WEEE, and REACH compliant
	Package Contents	Cee device × 1; USB Type-C power cable × 1; USB Type-C power adapter × 1; installation guide × 1; notice label × 1