

CP63-E PTZ Camera

4K PTZ for Expansive and Highly-Detailed Coverage of Large Areas



Overview

The CP63-E 4K PTZ camera includes a large 1 / 1.8" progressive CMOS image sensor for superior image quality and precise, detailed monitoring. The CP63-E's advanced varifocal lens with 32x motorized optical zoom and 100-meter IR range complement its Sentry Mode for unparalleled, automated monitoring of individuals across an expansive field of view. With its onboard CV72 Ambarella processor delivering advanced analytics like AI-powered search, AI-powered alerts, Person of Interest detection, and crowd detection, the CP63-E excels in monitoring large areas such as sports fields, parking lots, or stadiums.

Key features

Excellent image quality

- Large 1 / 1.8" progressive CMOS image sensor
- 4K resolution
- 32x motorized optical zoom
- 100 meters / 328 feet of IR range for nighttime viewing

Advanced analytics

- Onboard CV72 Ambarella processor enables people and vehicle analytics
- AI-powered search and AI-powered alerts

Automated monitoring

- Support Sentry Mode with up to three context cameras for automated monitoring of vast areas

Hybrid cloud architecture

- Onboard storage and processing helps reduce bandwidth consumption, and enables coverage at scale
- 1TB - 3TB onboard storage

Durability and weather protection

- Robust metal housing
- IP66 weather rating
- IK10 impact rating
- Operability between -40°C to 50°C / -40°F to 122°F ensures functionality in almost any weather condition



CP63-E

Tech Specs

Camera features

Image Sensor	1/1.8" Progressive CMOS	Shutter Speed	1/30 sec. to 1/10,000 sec.
Sensor Resolution¹	4K (3840 x 2160)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	IR Cut Filter	Yes
Focal Length	6.5mm – 212mm	IR Range	100m / 328ft
Aperture	F1.4 – F4.9	Minimum Illumination	0.02 lux @ F1.4 (Color) 0 lux @ F1.4 with IR Illuminators on
Iris	P-Iris	Onboard Storage	Capacity: from 1TB to 3TB Card: MicroSD, SDXC
Field of View	Horizontal: 63.5° - 2° Vertical: 37.4° - 1.1° Diagonal: 70.7° - 2.3°	CPU	Ambarella CV72S66
Sensor Movement	Tilt: 220° Pan: 360°		

Standard video settings

Compression	H.265 (historical video only), H.264	Historical Video Settings	Adaptive quality ¹
Frame Rate²	24fps	WDR Technology	True WDR, dual exposure
Live Streaming Settings³	Static: 1,000 Kbps (SQ), 3,000 Kbps (HQ) Moving: 3,000 Kbps (SQ), 5,000 Kbps (HQ)		

Standard audio settings

Audio	Not supported
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Power and network

Power Input⁴	With IR: IEEE 802.3bt Type 3 PoE++ Without IR: IEEE 802.3bt Type 3 PoE++ Extended temperature range: IEEE 802.3bt Type 3 PoE++	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption⁴	With IR: 42.5 - 57.0V, 1.13 - 0.85A, 48.0W Without IR: 42.5 - 57.0V, 0.80 - 0.59A, 34.0W Extended temperature range: 42.5 - 57.0V, 1.2 - 0.89A, 51W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: No

1. All our cameras record in "adaptive quality," capturing both standard (SQ) and high quality (HQ) streams. SQ video is stored up to the amount of retention specified by the customer. The amount of HQ video stored on the camera will depend on the amount of motion detected by the camera over time. To learn more, visit our website:

<https://docs.verkada.com/docs/adaptive-quality-recording-whitepaper.pdf>

2. Frame rate can be adjusted by support.

3. The listed ranges represent the uplink bandwidth based on target bitrates. To learn more, visit Verkada's Knowledge Base and read "[Understanding Variable Bitrates for Verkada PTZ Cameras](#)".

4. Extended temperature range includes operating temperatures below -8.5°C / 16.7°F and assumes IR will be enabled.



CP63-E Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	LED Indicator	System power and status indicator
Humidity	0 to 90%	Warranty	5 Years
Certifications	FCC, IC, CE, UKCA, Japan VCCI, AS/NZS (RCM), IK10 impact rating, IP66 weather rating	Included Accessories	Rubber cap, pendant cap, T30 security L-wrench

Mechanical

Weight	Camera: 7.53kg / 16.6lbs Pendant cap: 0.41kg / 0.9lbs	Body	Aluminum, plastic, glass
Dimensions	Ø: 256mm / 10.1in, H: 406mm / 16.0in with pendant cap Ø: 256mm / 10.1in, H: 336mm / 13.2in without pendant cap		

Dimensions

256mm / 10.1in



406mm / 16.0in



Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, Person of Interest detection, crowd detection, AI-powered alerts	Streaming and Storage	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP, footage archiving
People Analytics	People search, attribute search, face search, Sentry Mode, motion search, trajectory analysis, selective face blurring, AI-powered search	Sharing and Privacy	Live links, audit log
Vehicle Analytics	Vehicle search, attribute search, motion search, trajectory analysis, AI-powered search	Controllers⁵	Mouse, keyboard, Xbox Wireless Controller, joystick

Coverage examples



360° pan



220° tilt

5. For details on the supported controllers for the CP63-E, refer to the article [here](#).



Ordering Information

CP63-E PTZ pricing

Model Number	MP ¹	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention ¹	People/Vehicle Analytics	Cost (MSRP) ^{USD}
CP63-1TBE-HW	4K	✓	Zoom	100m / 328ft	1 TB	30 days	✓	\$4,699
CP63-2TBE-HW	4K	✓	Zoom	100m / 328ft	2 TB	60 Days	✓	\$5,999
CP63-3TBE-HW	4K	✓	Zoom	100m / 328ft	3 TB	90 Days	✓	\$7,299

Video Security Cloud License pricing

Model Number	Description	Cost (MSRP) ^{USD}
LIC-CAM-1Y	1-Year Camera License	\$199
LIC-CAM-3Y	3-Year Camera License	\$549
LIC-CAM-5Y	5-Year Camera License	\$899
LIC-CAM-10Y	10-Year Camera License	\$1,799

Accessories pricing

ACC-MNT-XLARM-1	Large Arm Mount	\$159
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-POE-60W	PoE++ (802.3bt) Injector, GigE	\$149

1. All our cameras record in "adaptive quality," capturing both standard and high quality streams. Standard quality (SQ) video is stored up to the amount of retention specified by the customer. The amount of high quality video stored on the camera will depend on the amount of motion detected by the camera over time. To learn more, visit our website: <https://docs.verkada.com/docs/adaptive-quality-recording-whitepaper.pdf>