

CP63-E-F Government-Grade PTZ Camera

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



Overview

The CP63-E-F government-grade PTZ camera features a large 1 / 1.8" progressive CMOS image sensor, an advanced optical lens with 32x motorized optical zoom, and 100 meters / 328 feet of IR range for vivid 4K image quality at distance in various conditions. The CP63-E-F also includes FIPS 140-validated encryption and is both TAA and FY2019 NDAA compliant – essential compliance criteria for government-grade deployments. The CP63-E-F is compatible with the standard Verkada Command platform, as well as Command for GovCloud, Verkada's FedRAMP® Moderate Authorized environment.

To complement its [sentry mode](#), organizations can pair the CP63-E-F with up to three context cameras for precise and automated monitoring of individuals across an expansive field of view. With its onboard CV72S Ambarella processor delivering advanced analytics like AI-powered search and person of interest (POI) alerts, the CP63-E-F excels in privacy-sensitive monitoring of large areas such as parking lots and large courtyards.

Engineered in-house for highly-detailed proactive monitoring in any environment, the CP63-E-F's turret design enhances its range of motion that effectively reduces blind spots. Advanced motor mechanisms allow for quick and seamless transitions between positions with low latency (<500 milliseconds). The CP63-E-F features a robust metal housing, IP66 weather rating, and IK10 impact rating to ensure functionality in harsh conditions and inclement weather.

Key features

Superior image quality

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

Advanced analytics

- Onboard CV72S Ambarella processor enables people and vehicle analytics
- Person of interest (POI) alerts for proactive monitoring

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, enabling coverage at scale
- 30 - 90 days (1TB - 3TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

Durability and weather protection

- Robust metal housing
- IP67 weather rating and IK10 impact rating
- Operability between -40°C to 50°C / -40°F to 122°F

Government-Grade Security

- Meets the FIPS 140 standard, as validated by NIST
- FedRAMP Ready status at the Moderate impact level as designated by the Federal Risk and Authorization Management Program
- TAA and FY2019 NDAA compliant



CP63-E-F

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: 64° – 2° Vertical: 37° – 1° Diagonal: 71° – 2°	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: 43-57V, 1.13-0.85A, 48.0W Without IR: 43-57V, 0.80-0.60A, 34.0W Extended temperature range: 43-57V, 1.20-0.89A, 51.0W	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 -10°C / 14°F and assumes IR will be enabled.



CP63-E-F

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, FIPS 140-2 validated, TAA and FY2019 NDAA compliant	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: 256.0mm / 10.08in, H: 406.0mm / 15.98in with pendant cap Ø: 256.0mm / 10.08in, H: 336.0mm / 13.23in without pendant cap		

Dimensions

256.0mm / 10.08in



406.0 mm / 15.98 in

Software capabilities

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

Coverage examples



360° pan



220° tilt

5. For details on the supported controllers for PTZ cameras, refer to the article [here](#).



Ordering Information

CP63-E-F pricing

Model number	MP ¹	WDR	Lens	IR range	Onboard storage	Maximum SQ onboard retention ¹	People/vehicle analytics	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
CP63-1TBE-HW-F	4K	✓	Zoom	100m / 328ft	1TB	30 Days	✓	\$5,999	\$5,799
CP63-2TBE-HW-F	4K	✓	Zoom	100m / 328ft	2TB	60 Days	✓	\$8,199	\$7,999
CP63-3TBE-HW-F	4K	✓	Zoom	100m / 328ft	3TB	90 Days	✓	\$10,399	\$10,199

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>



Ordering Information

Video Security Cloud License Pricing (new/capacity increase)

Model number	Description	US cost (MSRP) ^{USD}	WW cost(MSRP) ^{USD}
LIC-CAM-1Y-CAP	1-year camera license, capacity increase	\$249	\$249
LIC-CAM-3Y-CAP	3-year camera license, capacity increase	\$659	\$659
LIC-CAM-5Y-CAP	5-year camera license, capacity increase	\$1,099	\$1,099
LIC-CAM-10Y-CAP	10-year camera license, capacity increase	\$2,199	\$2,199
LIC-CAM-1Y-CAP-G	1-Year Camera License for Government, Capacity Increase	\$299	\$299
LIC-CAM-3Y-CAP-G	3-Year Camera License for Government, Capacity Increase	\$809	\$809
LIC-CAM-5Y-CAP-G	5-Year Camera License for Government, Capacity Increase	\$1,349	\$1,349
LIC-CAM-10Y-CAP-G	10-Year Camera License for Government, Capacity Increase	\$2,699	\$2,699

Video Security Cloud License Pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost(MSRP) ^{USD}
LIC-CAM-1Y-RNW	1-year camera license, renewal	\$249	\$249
LIC-CAM-3Y-RNW	3-year camera license, renewal	\$659	\$659
LIC-CAM-5Y-RNW	5-year camera license, renewal	\$1,099	\$1,099
LIC-CAM-10Y-RNW	10-year camera license, renewal	\$2,199	\$2,199
LIC-CAM-1Y-RNW-G	1-Year Camera License for Government, Renewal	\$299	\$299
LIC-CAM-3Y-RNW-G	3-Year Camera License for Government, Renewal	\$809	\$809
LIC-CAM-5Y-RNW-G	5-Year Camera License for Government, Renewal	\$1,349	\$1,349
LIC-CAM-10Y-RNW-G	10-Year Camera License for Government, Renewal	\$2,699	\$2,699



Accessories

Recommended accessories

Model Number	Description
ACC-MNT-CORNER-1	Corner Mount
ACC-MNT-POLE-1	Pole Mount
ACC-MNT-XLARM-1	Large Arm Mount
ACC-POE-90W-AU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Australia Type I Plug
ACC-POE-90W-EU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Europe Type F Plug
ACC-POE-90W-NA	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, North America Type B Plug
ACC-POE-90W-UK	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, United Kingdom Type G Plug