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, has FedRAMP Ready status at the Moderate impact level, 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 hosted in AWS GovCloud.

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 Resolution[1]	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 Rate[2]	24fps	**WDR Technology**	True WDR, dual exposure
Live Streaming Settings[3]	Static: 1,000 Kbps (SQ), 3,000 Kbps (HQ) Moving: 3,000 Kbps (SQ), 5,000 Kbps (HQ)		

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	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 Consumption[4]	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	**Controllers[5]**	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	Cost (MSRP) USD
CP63-1TBE-HW-F	4K	✓	Zoom	100m / 328ft	1TB	30 Days	✓	$5,199
CP63-2TBE-HW-F	4K	✓	Zoom	100m / 328ft	2TB	60 Days	✓	$6,499
CP63-3TBE-HW-F	4K	✓	Zoom	100m / 328ft	3TB	90 Days	✓	$7,799

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	Cost (MSRP) USD
LIC-CAM-1Y-CAP	1-Year Camera License, Capacity Increase	$219
LIC-CAM-3Y-CAP	3-Year Camera License, Capacity Increase	$599
LIC-CAM-5Y-CAP	5-Year Camera License, Capacity Increase	$999
LIC-CAM-10Y-CAP	10-Year Camera License, Capacity Increase	$1,999
LIC-CAM-1Y-CAP-G	1-Year Camera License for Government, Capacity Increase	$329
LIC-CAM-3Y-CAP-G	3-Year Camera License for Government, Capacity Increase	$899
LIC-CAM-5Y-CAP-G	5-Year Camera License for Government, Capacity Increase	$1,499
LIC-CAM-10Y-CAP-G	10-Year Camera License for Government, Capacity Increase	$2,999

Video Security Cloud License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-CAM-1Y-RNW	1-Year Camera License, Renewal	$219
LIC-CAM-3Y-RNW	3-Year Camera License, Renewal	$599
LIC-CAM-5Y-RNW	5-Year Camera License, Renewal	$999
LIC-CAM-10Y-RNW	10-Year Camera License, Renewal	$1,999
LIC-CAM-1Y-RNW-G	1-Year Camera License for Government, Renewal	$329
LIC-CAM-3Y-RNW-G	3-Year Camera License for Government, Renewal	$899
LIC-CAM-5Y-RNW-G	5-Year Camera License for Government, Renewal	$1,499
LIC-CAM-10Y-RNW-G	10-Year Camera License for Government, Renewal	$2,999

Ordering Information

Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-MNT-CORNER-1	Corner Mount	$199
ACC-MNT-POLE-1	Pole Mount	$209
ACC-MNT-XLARM-1	Large Arm Mount	$159
ACC-POE-90W-AU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Australia Type I Plug	$169
ACC-POE-90W-EU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Europe Type F Plug	$169
ACC-POE-90W-NA	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, North America Type B Plug	$169
ACC-POE-90W-UK	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, United Kingdom Type G Plug	$169