

## CP52-E PTZ Camera

5MP PTZ for Expansive and Detailed Coverage of Large Areas



### Overview

The CP52-E PTZ camera features a 1 / 2.8" progressive CMOS image sensor, varifocal lens with 28x motorized optical zoom, and 100 meters / 328 feet of IR range for reliable 5MP image quality at distance in harsh conditions. Up to three context cameras can be paired with the CP52-E to complement its [sentry mode](#), providing precise and automated monitoring of individuals across an expansive field of view. With its onboard CV22S Ambarella processor delivering advanced analytics like AI-powered search, AI-powered alerts, person of interest (POI) alerts, and crowd detection, the CP52-E offers privacy-sensitive monitoring of large areas such as stadiums, arenas, and parking lots.

Engineered in-house, the CP52-E has a turret design that enhances its range of motion, effectively reducing blind spots. Advanced motor mechanisms allow for quick and seamless transitions between positions with ultra low latency (<500 milliseconds). The CP52-E features a robust metal housing, IP66 weather rating, and IK10 impact rating to help ensure functionality in harsh conditions and inclement weather.

### Key features

#### Excellent image quality

- 1 / 2.8" progressive CMOS image sensor
- 5MP resolution
- Varifocal lens with 28x optical zoom
- 100 meters / 328 feet of IR range for long-range nighttime viewing

#### 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

#### Advanced analytics

- Onboard CV22S Ambarella processor enables people and vehicle analytics
- AI-powered search and AI-powered alerts

#### Hybrid cloud architecture

- Onboard storage and processing helps reduce bandwidth consumption, enabling coverage at scale
- 30 - 180 days (512GB - 3TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

#### Automated monitoring

- Support sentry mode with up to three context cameras for automated monitoring of vast areas



## CP52-E

## Tech Specs

## Camera features

<b>Image Sensor</b>	1 / 2.8" Progressive CMOS	<b>Shutter Speed</b>	1 / 30 sec. to 1 / 10,000 sec.
<b>Sensor Resolution<sup>1</sup></b>	5MP (2688 x 1944)	<b>Day/Night</b>	IR-cut filter for day and night function
<b>Lens Type</b>	Varifocal; motorized zoom	<b>IR Cut Filter</b>	Yes
<b>Focal Length</b>	5.2mm – 148.15mm	<b>IR Range</b>	100m / 328ft
<b>Aperture</b>	F1.3 – F4.8	<b>Minimum Illumination</b>	0.8 lux @ F1.4 (Color) 0 lux @ F1.4 with IR Illuminators on
<b>Iris</b>	DC Iris	<b>Onboard Storage</b>	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
<b>Field of View (after LDC)</b>	Horizontal: 55°-2° Vertical: 42°-1.5° Diagonal: 66°-2.5°	<b>CPU</b>	Ambarella CV22S66
<b>Sensor Movement</b>	Tilt: 220° Pan: 360°		

## Standard video settings

<b>Compression</b>	H.265 (historical video only), H.264	<b>Historical Video Settings</b>	Adaptive quality <sup>1</sup>
<b>Frame Rate<sup>2</sup></b>	24fps	<b>WDR Technology</b>	True WDR, dual exposure
<b>Live Streaming Settings<sup>3</sup></b>	Static: 1,000 Kbps (SQ), 3,000 Kbps (HQ)  Moving: 2,000 Kbps (SQ), 4,500 Kbps (HQ)		

## Standard audio settings

<b>Audio</b>	Not supported
--------------	---------------

## Power and network

<b>Power Input<sup>4</sup></b>	With IR: IEEE 802.3bt Type 3 PoE++ Without IR: IEEE 802.3at Type 2 PoE+ Extended temperature range: IEEE 802.3bt Type 3 PoE++	<b>Connectivity</b>	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
<b>Power Consumption<sup>4</sup></b>	With IR: 43-57V, 1.00-0.74A, 42.3W Without IR: 43-57V, 0.55-0.41A, 23.3W Extended temperature range: 43-57V, 1.04-0.77A, 44.0W	<b>RTSP</b>	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.



## CP52-E

## Tech Specs

## General

<b>Operating Temperature</b>	-40°C to 50°C / -40°F to 122°F	<b>LED Indicator</b>	System power and status indicator
<b>Humidity</b>	0 to 90%	<b>Warranty</b>	5 Years
<b>Certifications</b>	FCC, ICES, CE, UKCA, RCM, VCCI, KCC, NOM, ICASA, UL/cUL/IEC 62368-1, CB, IK10 impact rating, IP66 weather rating, FY2019 NDAA compliant	<b>Included Accessories</b>	Rubber cap, pendant cap, T30 security L-wrench

## Mechanical

<b>Weight</b>	Camera: 7.07kg / 15.6lbs Pendant cap: 0.41kg / 0.9lbs	<b>Body</b>	Aluminum, plastic
<b>Dimensions</b>	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



## Software capabilities

<b>Alerts</b>	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, AI-powered alerts	<b>Streaming and Storage</b>	Cloud backup, configurable retention days, selectable storage location, timelapse, RTSP
<b>People Analytics</b>	People search, attribute search, face search, Sentry Mode, motion search, trajectory analysis, selective face blurring, AI-powered search	<b>Sharing and Privacy</b>	Live Links, audit log
<b>Vehicle Analytics</b>	Vehicle search, attribute search, motion search, trajectory analysis, AI-powered search	<b>Controllers<sup>5</sup></b>	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

### CP52-E pricing

Model Number	MP <sup>1</sup>	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention <sup>1</sup>	People/Vehicle Analytics	Cost (MSRP) <sup>USD</sup>
CP52-512E-HW	5MP	✓	Zoom	100m / 328ft	512GB	30 Days	✓	\$3,699
CP52-1TBE-HW	5MP	✓	Zoom	100m / 328ft	1TB	60 Days	✓	\$4,499
CP52-1P5TBE-HW	5MP	✓	Zoom	100m / 328ft	1.5TB	90 Days	✓	\$5,299
CP52-3TBE-HW	5MP	✓	Zoom	100m / 328ft	3TB	180 Days	✓	\$6,899

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

### 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



## 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



## Ordering Information

### Viewing Station pricing

Model Number	Description	Cost (MSRP) USD
VX52-HW	VX52 Viewing Station	\$499

### Viewing Station License pricing (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-VX-1Y-CAP	1-Year Viewing Station License, Capacity Increase	\$499
LIC-VX-3Y-CAP	3-Year Viewing Station License, Capacity Increase	\$1,299
LIC-VX-5Y-CAP	5-Year Viewing Station License, Capacity Increase	\$1,999
LIC-VX-10Y-CAP	10-Year Viewing Station License, Capacity Increase	\$3,999

### Viewing Station License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-VX-1Y-RNW	1-Year Viewing Station License, Renewal	\$499
LIC-VX-3Y-RNW	3-Year Viewing Station License, Renewal	\$1,299
LIC-VX-5Y-RNW	5-Year Viewing Station License, Renewal	\$1,999
LIC-VX-10Y-RNW	10-Year Viewing Station License, Renewal	\$3,999