

## CB52-TE Telephoto Bullet Camera

### Prominent 5MP Coverage at Distance in Outdoor Environments



#### Overview

The CB52-TE telephoto bullet camera features a 1 / 2.8" progressive CMOS image sensor, an advanced optical lens with an adjustable focal length of 8mm - 20mm, and powerful long-range (50 meters / 164 feet) IR LEDs for 5MP coverage in various lighting conditions as well as in inclement weather. The CB52-TE features an onboard CV25S Ambarella processor for advanced, privacy-sensitive analytics like AI-powered search, [Occupancy Trends](#), line crossing, loitering, and Person of Interest (POI) alerts. The CB52-TE also supports [License Plate Recognition](#) (LPR) – capturing license plates from vehicles traveling at speeds of up to 80 mph / 128 kph across as many as three lanes of traffic. The CB52-TE's telephoto zoom allows for clear images even when the camera is installed far from the area it's monitoring, like on a lamppost next to a sports field or on the side of a building overlooking a corporate office park. The CB52-TE also excels at reading license plates at distance, and its LPR capabilities can be used to access control gated entrances to facilities.

The CB52-TE is constructed with a robust aluminum unibody and designed to withstand extreme conditions with an IP67 weather rating and IK10 impact rating. The camera's design includes a built-in pigtail connector that expedites PoE cabling without requiring disassembly. Installation and setup are easy to track using the LED status indicator.

#### Key features

##### Excellent image quality

- 1 / 2.8" progressive CMOS image sensor
- 5MP resolution
- Varifocal lens with an adjustable focal length of 8mm - 20mm
- 50 meters / 164 feet of IR range for optimal nighttime viewing

##### Advanced analytics

- Onboard CV25S Ambarella processor enables people and vehicle analytics
- License Plate Recognition capabilities capture license plates at speeds up to 80 mph / 128 kph
- AI-powered search and AI-powered alerts
- Occupancy Trends for operational insights

##### Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 - 365 days (256GB - 2TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

##### Easy installation

- Built-in pigtail connector for simplified PoE cabling
- Mounting plate and screw pack included
- LED light status indicator

##### Durability and weather protection

- Factory-sealed robust aluminum unibody
- IP67 weather rating
- IK10 impact rating
- Operability between -40°C to 50°C / -40°F to 122°F



## CB52-TE

### 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>	8mm–20mm	<b>IR Range</b>	50m / 164ft
<b>Aperture</b>	F1.5–F2.8	<b>Minimum Illumination</b>	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
<b>Iris</b>	P-Iris	<b>Onboard Storage</b>	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
<b>Field of View (after LDC<sup>2</sup>)</b>	Horizontal: 38° - 16° (37° - 16°) Vertical: 28° - 12° (27° - 12°) Diagonal: 48° - 19° (44° - 19°)	<b>CPU</b>	Ambarella CV25S88
<b>Camera Movement</b>	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

#### Standard video settings

<b>Compression</b>	H.265, H.264	<b>Historical Video Settings</b>	Adaptive quality <sup>1</sup>
<b>Frame Rate<sup>3</sup></b>	24fps	<b>Live Streaming Settings</b>	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps

#### Standard audio settings

<b>Audio</b>	Not supported
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#### Power and network

<b>Power Input<sup>4</sup></b>	With IR: IEEE 802.3at Type 2 PoE+ Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: IEEE 802.3at Type 2 PoE+	<b>Connectivity</b>	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
<b>Power Consumption<sup>4</sup></b>	With IR: 37-57V, 0.38-0.25A, 14.0W Without IR: 37-57V, 0.09-0.06A, 3.5W Extended temperature range: 37-57V, 0.61-0.37A, 22.6W	<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. Lens Distortion Correction (LDC) crops the sensor field of view to deliver a rectified, undistorted output image.

3. Frame rate can be adjusted by support.

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



# CB52-TE

## Tech Specs

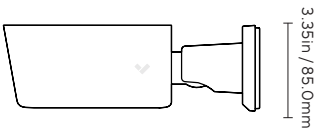
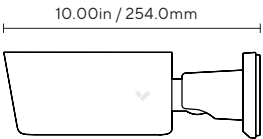
### General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	LED Indicator	System power and status indicator
Humidity	0 to 90%	Warranty	10 Years
Certifications	FCC, ICES, CE, UKCA, RCM, VCCI, BIS, CB, UL/cUL/IEC 62368-1, INCM, IP67 weather rating, IK10 impact rating, FY2019 NDAA compliant	Included Accessories	4x M4x8 screws, 4x TP4x30 mount screws, mount plate, junction box adapter, junction box cover, T25 hand tool

### Mechanical

Weight	Camera: 1478g / 52.13oz Mount plate: 33g / 1.16oz	Body	Aluminum
Dimensions	Ø: 85.0mm / 3.35in L: 254.0mm / 10.00in		

### Dimensions



### Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, Person of Interest detection, crowd detection, line-crossing detection, loitering detection, AI-powered alerts	Streaming and Storage	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics	People search, attribute search, face search, Occupancy Trends, motion search, trajectory analysis, selective face blurring, AI-powered search	Sharing and Privacy	Live Links, live face blur, privacy regions, audit log
Vehicle Analytics	Vehicle search, attribute search, motion search, trajectory analysis, Occupancy Trends, AI-powered search	License Plate Recognition	License Plate of Interest alerts, license plate indexing



## Ordering Information

### CB52-TE pricing<sup>2</sup>

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>
CB52-256TE-HW	5MP	✓	Zoom	50m / 164ft	256GB	30 Days	✓	\$1,499
CB52-512TE-HW	5MP	✓	Zoom	50m / 164ft	512GB	60 Days	✓	\$1,899
CB52-768TE-HW	5MP	✓	Zoom	50m / 164ft	768GB	90 Days	✓	\$2,299
CB52-2TBTE-HW	5MP	✓	Zoom	50m / 164ft	2TB	365 Days	✓	\$3,999

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>

2. The CB52-E, CB52-TE, CB62-E and CB62-TE are also available in FIPS-validated models. See <https://docs.verkada.com/docs/FIPS-validated-series.pdf> for details.



## 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	\$199
LIC-CAM-3Y-CAP	3-Year Camera License, Capacity Increase	\$549
LIC-CAM-5Y-CAP	5-Year Camera License, Capacity Increase	\$899
LIC-CAM-10Y-CAP	10-Year Camera License, Capacity Increase	\$1,799

### Video Security Cloud License pricing (Renewal)

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



# Ordering Information

## Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-MNT-SJBOX-1	Square Junction Box	\$89
INJ-POE-PLUS	PoE Plus (802.3at Type 2) Injector, GigE	\$129



## 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