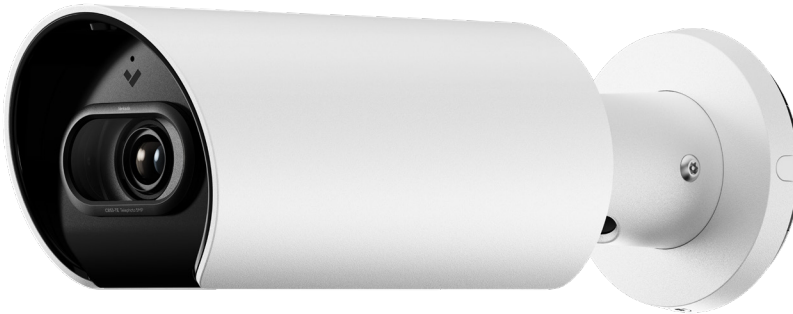


## CB53-TE Telephoto Bullet Camera

### Detailed 5MP coverage at distance in outdoor environments



#### Overview

The CB53-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 IR LEDs with 100 meters / 328 feet of range for detailed coverage at longer distances. The CB53-TE features an onboard CV75S Ambarella processor for advanced analytics like AI-powered unified timeline, AI-powered activity detection alerts, occupancy trends, and person of interest (POI) alerts. In addition, the CB53-TE supports license plate recognition (LPR), enabling the device to capture license plates on vehicles traveling at speeds up to 80 mph / 128 kph across as many as three lanes of traffic. The CB53-TE provides detailed footage at longer distances, ideal for monitoring specific areas located far away from the desired install location. Its LPR capabilities can also grant access at vehicle gates, or be used to monitor vehicle flow and occupancy in a given area.

The CB53-TE withstands demanding environments with an IP66/67 weather rating and IK10 impact rating. A built-in visor keeps precipitation out of the camera's field of view, while a proprietary internal heating mechanism combats condensation. Designed with easy and efficient installation top-of-mind, the CB53-TE features a single tool install, a latch-based cable gland for easy PoE threading, and LED status light indicators.

#### Key features

##### Excellent image quality

- 1 / 2.8" progressive CMOS image sensor
- 5MP resolution
- Telephoto lens with an adjustable focal length of 8mm - 20mm
- 100 meters / 328 feet of IR range for long-distance nighttime viewing

##### Advanced analytics

- Onboard CV75S Ambarella processor enables advanced analytics
- License plate recognition capabilities capture license plates at speeds up to 80 mph / 128 kph
- AI-powered unified timeline and AI-powered activity detection alerts
- Occupancy trends and LPR zones 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

##### Streamlined installation

- Latch-based cable gland for easy PoE threading
- Mount plate, junction box adapter, and screw pack included
- Three-LED status light indicator

##### Durability and weather protection

- IP66/67 weather rating
- IK10 impact rating
- Operability between -40°C to 50°C / -40°F to 122°F



## CB53-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 (2.50x)	<b>IR-cut filter</b>	Yes
<b>Focal length</b>	8mm - 20mm	<b>IR range</b>	100m / 328ft
<b>Aperture</b>	F1.5 - F2.8	<b>Minimum illumination</b>	0.009 lux @ F1.9 (color) 0 lux with onboard 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: 37° - 15° (37° - 15°) Vertical: 27° - 11° (27° - 11°) Diagonal: 45° - 19° (45° - 19°)	<b>CPU</b>	Ambarella CV75S88
<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 802.3at Type 2 PoE+ Extended temperature range: IEEE 802.3at Type 2 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: 37-57V, 0.50-0.33A, max 18.6W, typical 15.0W Without IR: 37-57V, 0.23-0.15A, max 8.5W, typical 5.8W Extended temperature range: 37-57V, 0.58-0.37A, max 21.3W, typical 17.8W	<b>RTSP</b>	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio: not supported

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 -10°C/14°F and assumes IR will be enabled.



## CB53-TE

# Tech specs

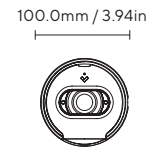
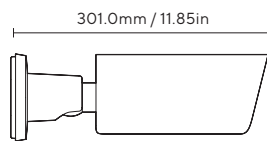
### General

<b>Operating temperature</b>	-40°C to 50°C / -40°F to 122°F	<b>LED indicator</b>	System power and status indicator, debug indicator
<b>Humidity</b>	0 to 90%	<b>Warranty</b>	10 years
<b>Certifications</b>	FCC, ICES, CE, UKCA, RCM, VCCI, BIS, KC, BSMI, UL/IEC62368-1, IP66/67 weather rating, IK10 impact rating	<b>Included accessories</b>	T25 L-key, cable glands, 4x #8 wall screws, 4x wall anchors, 4x M4 machine screws, junction box adapter cover, junction box adapter plate, conduit adapter

### Mechanical

<b>Weight</b>	Camera: 1700g / 59.97oz Mount plate: 80g / 2.82oz	<b>Body</b>	Aluminum
<b>Dimensions</b>	L: 301.0mm / 11.85in, Ø: 100.0mm / 3.94in		

### Dimensions



### Software capabilities

<b>Alerts</b>	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, line-crossing detection, loitering detection, AI-powered alerts	<b>Streaming and storage</b>	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
<b>People analytics</b>	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	<b>Sharing and privacy</b>	Live links, live face blur, privacy regions, audit log
<b>Vehicle analytics</b>	Vehicle search, attribute search, motion search, trajectory analysis, selective face blurring, AI-powered search	<b>License plate recognition</b>	License plate of interest alerts, license plate indexing



## Ordering information

### CB53-TE pricing

Model number	MP	WDR	Lens	IR range	Onboard storage	Maximum SQ onboard retention	People/vehicle analytics	Cost (MSRP) <sup>USD</sup>
CB53-256TE-HW	5MP	✓	Telephoto zoom	100m / 328ft	256GB	30 days	✓	\$2,099
CB53-512TE-HW	5MP	✓	Telephoto zoom	100m / 328ft	512GB	60 days	✓	\$2,799
CB53-768TE-HW	5MP	✓	Telephoto zoom	100m / 328ft	768GB	90 days	✓	\$3,499
CB53-1TBTE-HW	5MP	✓	Telephoto zoom	100m / 328ft	1TB	120 days	✓	\$4,199
CB53-2TBTE-HW	5MP	✓	Telephoto zoom	100m / 328ft	2TB	365 days	✓	\$6,399



## 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-CAM-CB-VSR-1	Bullet camera extended visor <sup>1</sup>	\$39
ACC-CAM-MNT-CBPOLE-1	Bullet camera pole mount <sup>2</sup>	\$99
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

1. The ACC-CAM-CB-VSR-1 is only recommended for use with the CB53-TE and CB63-TE. It can be attached to the CB53-E and CB63-E, but will limit the camera's field of view at lower optical zoom levels.

2. The ACC-CAM-MNT-CBPOLE-1 is only compatible with the CB53-E, CB63-E, CB53-TE, and CB63-TE.



## 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