

## Impeccable Detail at Distance and in Any Conditions



### Overview

Verkada's Bullet Series is designed to withstand harsh conditions and its visible form factor helps deter potential threats. There are two CB62 models: the CB62-E, which has a wide-angle field of view and the CB62-TE, which has a powerful zoom. Additionally, the cameras feature powerful long-range IR LEDs that enable them to produce clear images even at a distance of up to 50 meters at anytime of day.

Bullet cameras are designed for use in exposed outdoor environments. They are constructed with a robust aluminum unibody that encloses hermetically sealed internal electrical components. The camera's design includes a built-in pigtail connector that allows for easy insertion of an ethernet cable without needing to remove the outer body. The external housing offers IP67 protection against dust and heavy rain and IK10 protection against damage from vandals, hail and flying debris.

All 2nd generation Bullet cameras are outfitted with a cutting-edge system on a chip (SOC) which features a dedicated computer vision co-processor. Powered by Ambarella CV22 chipsets, these cameras can accurately capture license plates from vehicles traveling at speeds of up to 80mph / 128kph and do so simultaneously across three lanes. The Bullet Series is the single line of Verkada cameras that supports our License Plate Recognition feature, enabling users to capture and search for specific vehicles by their license plate numbers.

In addition, the Bullet Series has powerful edge processing capabilities that enable advanced computer vision features, including Verkada's People and Vehicle Analytics. These cameras also offer standard capabilities such as data encryption, onboard storage and motion detection, which help organizations rapidly scale their security coverage and enhance situational awareness across multiple locations.

### Key features

#### Enterprise-grade performance

- High-resolution sensors up to 4K
- License Plate Recognition available only on Bullet cameras
- Advanced edge processing for motion, people and vehicle analytics

#### Storage and processing

- 256GB-2TB of onboard storage
- Up to 90 days of retention in standard quality
- Low-bandwidth impact, only using 20-50 kbps per camera at rest

#### Certifications

- IP67 weather rating
- IK10 impact rating
- NDAA compliant



## Verkada's hybrid cloud architecture



### No NVR or DVRs

Industrial-grade onboard storage saves up to 365 days of continuous video<sup>1</sup>

### Easy to scale

Bandwidth friendly and supports thousands of cameras across unlimited locations

### Centralized management

Modern platform enables secure access on any device from anywhere in the world

## The Reliability of Onboard Storage, With the Accessibility of the Cloud

### Simple to install

- No NVRs, DVRs, or servers—just a PoE connection
- Cameras come online and configure in minutes
- No added software or complexities like port forwarding

### Easy to use

- Centralized management for secure remote access on any device nearly anywhere
- No training required to access footage and features
- Find, download and share footage from any device

### Advantages of cloud-managed solution

- Real-time alerts if cameras fall offline
- SAML-based integration with single-sign on (SSO) solutions
- Continuous updates with new AI features
- Instantly share live footage via SMS and email
- Live, proactive alerting based on unusual activity

### Ready for scale

- Bandwidth-friendly, operating at just 20–50 kbps
- Scale to thousands of cameras per location
- No added equipment needed to support additional cameras

### No hidden costs

- Hardware includes an industry-leading 10-year warranty
- Automatic firmware updates keep systems secure
- New features and enhancements are added at no additional costs

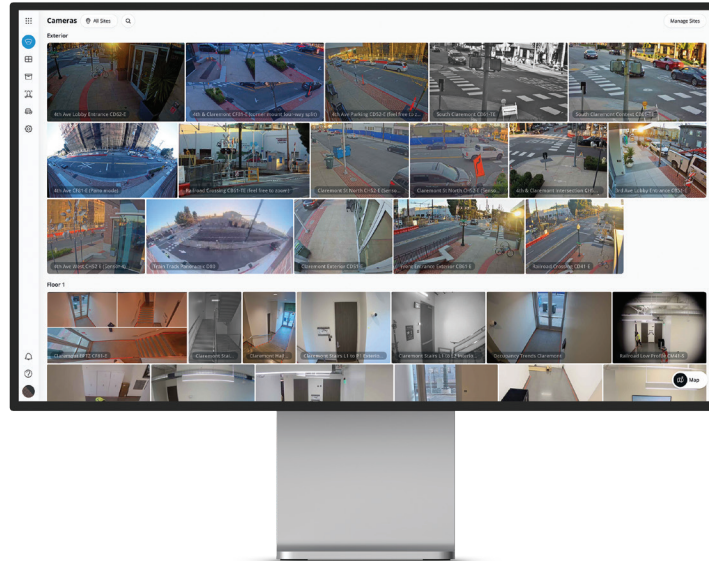


1. All our cameras record in "adaptive quality," capturing both standard and high quality streams. Standard quality (SQ) video is stored up to the amount of retention specified by the customer. The amount of high quality video stored on the camera will depend on the amount of motion detected by the camera over time. To learn more, visit our website: <https://www.verkada.com/blog/recording-in-adaptive-quality/>



## Verkada Command overview

# All-in-one Cloud-based Management Software for Verkada Security Cameras



Command, Verkada’s cloud-based management software, is designed to deliver simple access and management for all cameras and users across all sites from virtually anywhere in the world. From Command, users can set up new cameras, create sites, manage settings, access live and archived footage, manage users and access the advanced features powered by Verkada’s edge-based analytics.

### Manage from anywhere

- Remotely access footage and manage sites from any browser or device
- Native apps for iOS, Android and Verkada’s VX52 Viewing Station
- Receive alerts for offline cameras, tampering and motion detection

### Effortlessly archive and share

- Command licenses include unlimited cloud archiving and 30-days of cloud backup
- Easily export any footage in a shareable MP4 format
- Share Live Links and floorplans with first responders

### Scale with simplicity

- Add more devices and sites without complicating the user experience
- Leverage granular roles and permissions to manage users at scale
- Bring cameras online without 3rd party plugins, thick clients or downloads

### Stay secure from the ground up

- Stay secure with data encrypted in transit (AES 128) and at rest (AES 256)
- Access cameras securely without port-forwarding, VPNs, or complicated configurations
- Receive automatic firmware updates to stay a step ahead of emerging threats

### Quickly detect and respond to threats

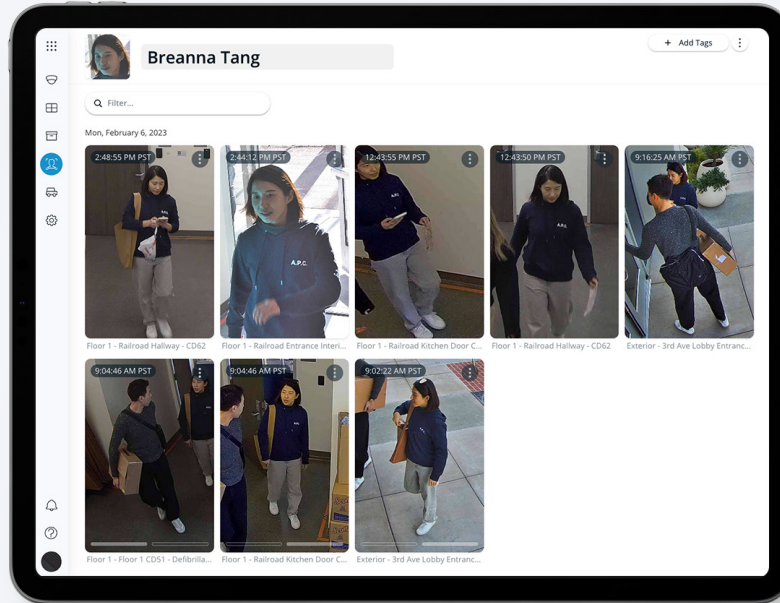
- Stay informed with customizable, intelligent alerts
- Speed up investigations with intelligent people and face detection
- Search and filter to find vehicles of interest and detected license plates



# Verkada's People Analytics

## Simplify and Speed Up Investigations

### With Intelligent People and Face Detection



Available for all Verkada camera models, People Analytics combines intelligent edge-based video processing with computer vision in the cloud to give users high-quality images of all individuals identified in the scene. Using People Analytics, customers can filter people by various attributes and expedite investigations.

## Bring Intelligence to Investigations

### Face search

- Quickly search for matching people by selecting an existing face from your organization or by uploading an image

### Person history

- Browse through high-resolution snapshots of people detected
- Save snapshots or easily access associated full-res video
- Search for matched people across your entire organization with cross-camera search

### Attribute filters

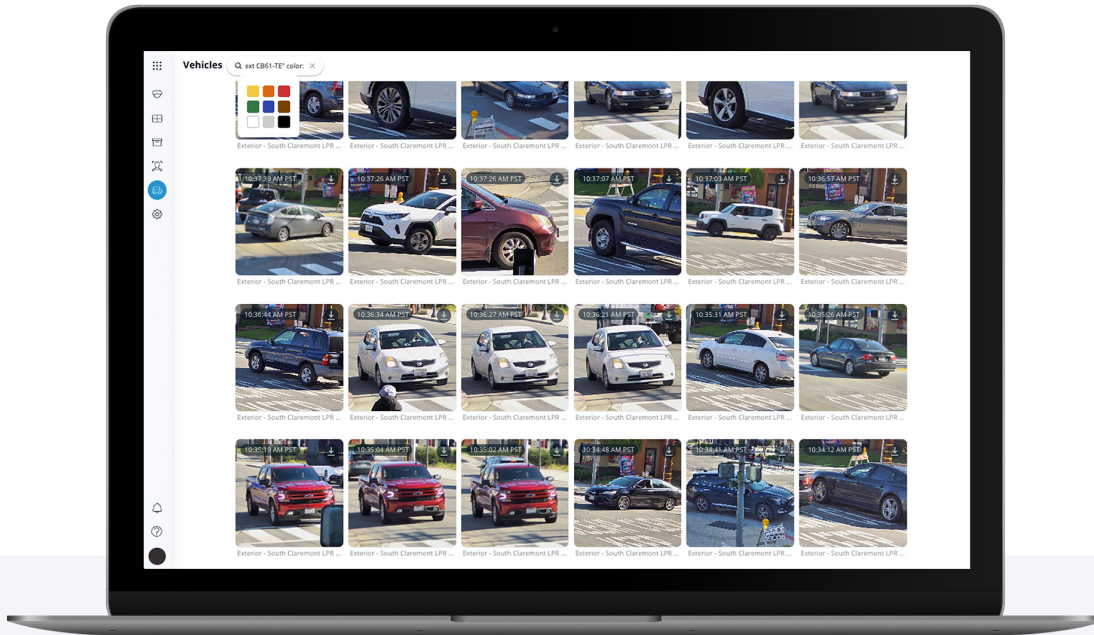
- Filter based on a range of attributes, including clothing color, gender appearance and facial matches

### Person of Interest notifications

- Set up proactive SMS/email notifications for alerting when a matching face is detected by a camera
- Create a Person of Interest by using an uploaded image or an existing face from your organization



# Verkada's Vehicle Analytics Quickly Search and Filter To Find Vehicles of Interest



Vehicle Analytics is a powerful edge-based feature that gives users high-quality images of all vehicles identified in a scene. With Verkada's centralized management platform, customers can filter vehicles by date, time, color and body type.

## Find and Filter Vehicles With Ease

### Vehicle history

- Browse through high-resolution snapshots of vehicles detected in frame
- Save snapshots or easily access associated full-res video

### Investigate anywhere

- Vehicle Analytics is available from any compatible device and can be accessed from virtually anywhere in the world

### Cross-camera search

- Easily find similar vehicles of interest across all cameras deployed across all sites
- Create and export playback of multiple angles of a vehicle to quickly provide evidence

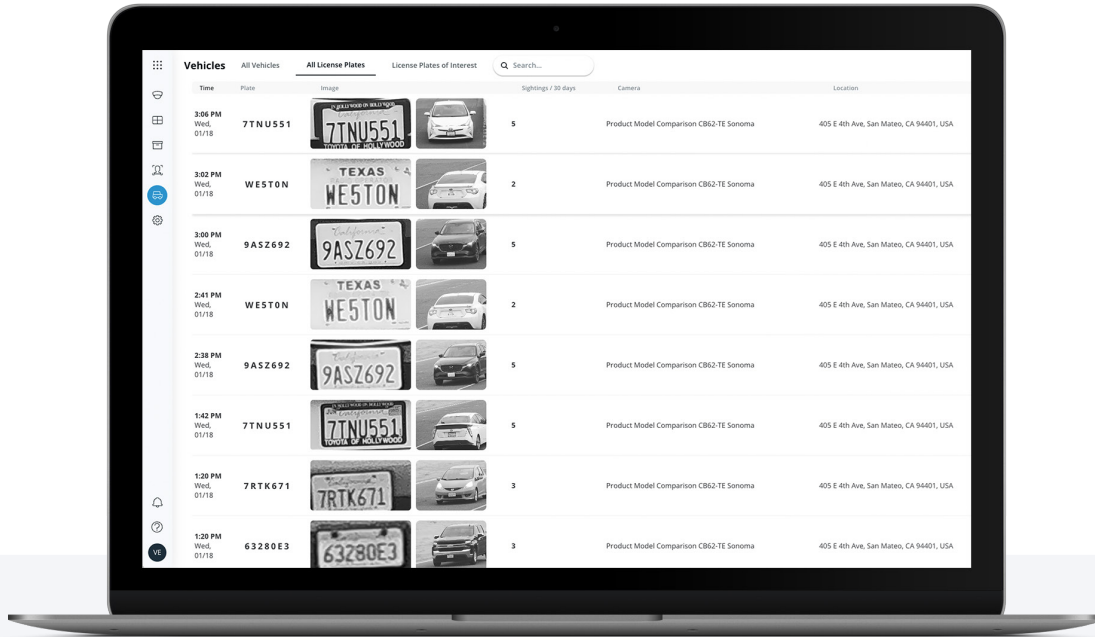
### Attribute filters

- Filter based on a range of attributes, including vehicle color and body type



## License Plate Recognition

# Enhanced Vehicle Insights with Verkada's Powerful LPR Camera Solution



Verkada's License Plate Recognition (LPR) solution offers intelligent software that allows organizations to monitor license plates in real-time and streamline vehicle investigations. The solution uses Verkada's edge-based processing and computer vision technology to capture license plate images and provide users with a readable and searchable list of license plate numbers. These captures are connected to live or recorded video for added context.

## Automatic License Plate Detection

### Track fast-moving vehicles and broaden your coverage

Capture license plate characters at speeds of up to 80 mph / 128 kph, cover up to three lanes and recognize international license plates – all with high precision and nearly instant recall\*

### Maximize your video security capabilities with our LPR cameras

Retain key camera functionality in LPR mode. Easily conduct motion searches, review recorded history and archive footage

### Streamline investigations with our user-friendly LPR system

Improve security and control access by adding custom descriptions to each license plate

### Find License Plates - even with incorrect or incomplete input

Get more comprehensive search results with our system that provides approximate license plate matches even if the inputted characters are incorrect or if the system is unable to capture all characters

### Receive custom License Plate of Interest Alerts

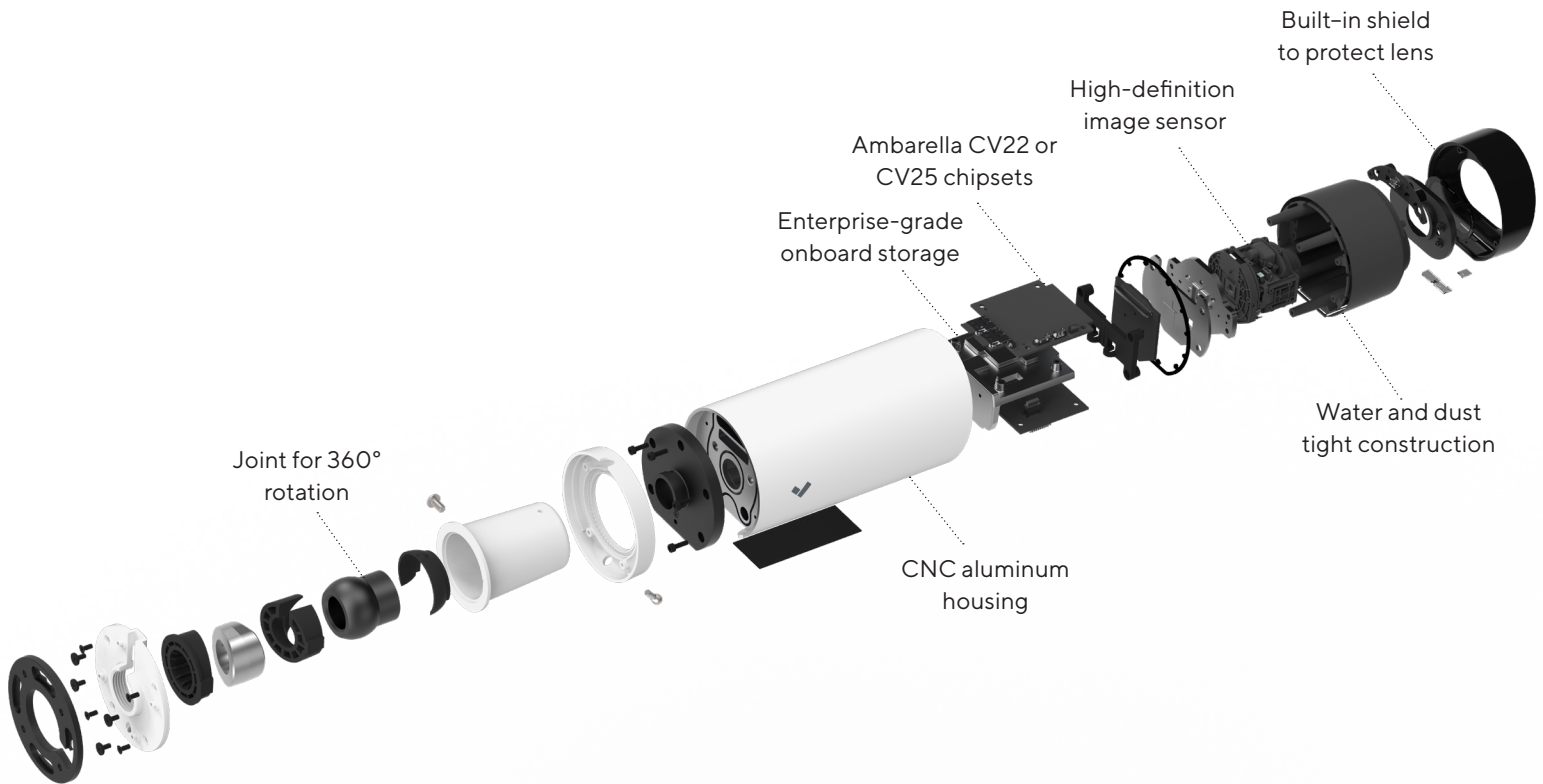
Send alerts to specific individuals or entire teams when designated license plates are detected across your LPR-enabled cameras

\*For best results, install cameras as outlined in the [User Guide for License Plate Recognition](#).



## Verkada's Bullet Series hardware

Designed and Constructed With the Highest Level of Precision and Quality



### Protective housing

- Durable CNC aluminum housing able to withstand impacts up to IK10 rating
- Water and dust tight construction with IP67 rating to protect the lens assembly
- Built-in shield to protect lens from obstruction

### High-performance hardware

- High-definition image sensor with 4K ultra-HD resolution and 3x optical zoom
- Advanced processing capabilities with Ambarella CV22 or CV25 chipsets

### System functionality

- Enterprise-grade onboard storage capacity for up to 365 days of standard quality footage
- Flexible installation with a rotating joint for 360° rotation



# Comparison: wide angle and telephoto Lens Options for the Bullet Series

### Wide Angle

### Telephoto

Focal Length

2.8mm-8mm

8mm-20mm

Image at  
No Zoom



CB62-E at 2.8mm



CB62-TE at 8mm

Image at  
Full Zoom



CB62-E at 8mm



CB62-TE at 20mm





## Bullet Series Tech Specs



CB62-E

### 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>	4K (3840 x 2160)	<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>	2.8mm–8mm	<b>IR Range</b>	30m / 98ft
<b>Aperture</b>	F1.3–F2.4	<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 512GB to 2TB Card: MicroSD, SDXC
<b>Field of View (after LDC<sup>2</sup>)</b>	Horizontal: 38° – 95° (37° – 83°) Vertical: 23° – 48° (21° – 42°) Diagonal: 43° – 100° (42° – 91°)	<b>CPU</b>	Ambarella CV22S66
<b>Camera Movement</b>	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

### Standard video settings

<b>Compression</b>	H.264	<b>Historical Video Settings</b>	Adaptive quality <sup>1</sup>
<b>Frame Rate<sup>3</sup></b>	24fps	<b>Video Streaming Settings</b>	High quality (HQ) – 3,000 Kbps Standard quality (SQ) – 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, 0.4–0.26A, 14.88W Without IR: 37–57V, 0.11–0.08A, 4.34W Extended temperature range: 37–57V, 0.64–0.39A, 23.68W	<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 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://www.verkada.com/blog/recording-in-adaptive-quality/>

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. In temperatures below -8.5°C / 16.7°F, a IEEE 802.3bt Type 3 PoE++ power source is required; even if IR is off.



# Bullet Series Tech Specs



CB62-E

## 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>	10 Years
<b>Certifications</b>	FCC, ICES, CE, UKCA, RCM, VCCI, BIS, UL/IEC62368-1, IP67 weather rating, IK10 impact rating, NDAA	<b>Included Accessories</b>	4x M4x8 screws, 4x TP4x30 mount screws, mount plate, junction box adapter, junction box cover, T25 hand tool

## Mechanical

<b>Weight</b>	Camera: 1464g / 51.6oz Mount plate: 33g / 1.16oz	<b>Body</b>	Aluminum
<b>Dimensions</b>	Ø: 85 L: 254mm		

## Software capabilities

<b>Alerts</b>	Camera status, motion detection, people detection, vehicle detection, Person of Interest detection, crowd detection	<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	<b>Sharing and Privacy</b>	Live Link, privacy regions, audit log
<b>Vehicle Analytics</b>	Vehicle search, attribute search	<b>License Plate Recognition</b>	License Plate of Interest alerts, license plate indexing



## Bullet Series Tech Specs



CB62-TE

### 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>	4K (3840 x 2160)	<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 512GB to 2TB Card: MicroSD, SDXC
<b>Field of View (after LDC<sup>2</sup>)</b>	Horizontal: 17° – 41° (16° – 35°) Vertical: 10° – 16° (9° – 15°) Diagonal: 21° – 44° (18° – 40°)	<b>CPU</b>	Ambarella CV22S66
<b>Camera Movement</b>	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

### Standard video settings

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

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3. Frame rate can be adjusted by support.

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# Bullet Series Tech Specs



CB62-TE

## 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>	10 Years
<b>Certifications</b>	FCC, ICES, CE, UKCA, RCM, VCCI, BIS, UL/IEC62368-1, IP67 weather rating, IK10 impact rating, NDAA	<b>Included Accessories</b>	4x M4x8 screws, 4x TP4x30 mount screws, mount plate, junction box adapter, junction box cover, T25 hand tool

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<b>People Analytics</b>	People search, attribute search, face search, Occupancy Trends	<b>Sharing and Privacy</b>	Live Link, privacy regions, audit log
<b>Vehicle Analytics</b>	Vehicle search, attribute search	<b>License Plate Recognition</b>	License Plate of Interest alerts, license plate indexing



## Professional Video Monitoring for Verkada Cameras

### Meet your Virtual Guard

Verkada offers a 24/7 professional monitoring service to review and respond to events from your Verkada cameras

Monitoring is provided by three fully redundant, U.S.-based, UL listed central stations with Five Diamond Certification from The Monitoring Association.



### Assess the situation

- While your site is armed, our agents will review video in real time when any camera detects a person
- If the person is deemed a threat to people or property, an alarm will be raised

### Make contact

- When an alarm is raised, agents will call and send SMS messages to the predetermined contact list
- If there's a visible emergency in progress, agents will contact local emergency services immediately

### Take action

- If a threat is confirmed by someone on the contact list, or if no one can be reached, agents will dispatch local first responders to the site address
- All events can be reviewed, archived and accessed from Command for incident investigation

### Alarm license pricing

Professional monitoring of Verkada cameras is included in the Alarm license. The Alarm license includes access to the cloud-managed Verkada Alarms platform and unlimited video review of person detection events. One Alarm license is required for each unique site address, with no limit on monitored cameras.

## Alarm License pricing

Model Number	Description	Cost (MSRP) USD
LIC-BA-1Y	1-Year Alarm License	\$1,500
LIC-BA-3Y	3-Year Alarm License	\$4,500
LIC-BA-5Y	5-Year Alarm License	\$7,500
LIC-BA-10Y	10-Year Alarm License	\$15,000



# Ordering Information

## Bullet Series 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>
CB62-512E-HW	8.0MP	✓	Zoom	30m / 98ft	512GB	30 Days	✓	\$1,799
CB62-1TB E-HW	8.0MP	✓	Zoom	30m / 98ft	1TB	60 Days	✓	\$2,599
CB62-2TB E-HW	8.0MP	✓	Zoom	30m / 98ft	2TB	90 Days	✓	\$3,899
CB62-512TE-HW	8.0MP	✓	Zoom	50m / 164ft	512GB	30 Days	✓	\$1,899
CB62-1TBTE-HW	8.0MP	✓	Zoom	50m / 164ft	1TB	60 Days	✓	\$2,699
CB62-2TBTE-HW	8.0MP	✓	Zoom	50m / 164ft	2TB	90 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://www.verkada.com/blog/recording-in-adaptive-quality/>



## Ordering Information

### Video Security Cloud License pricing

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

### Accessories pricing

ACC-MNT-9	Verkada Pole Mount, 2nd Generation	\$209
ACC-MNT-10	Verkada Corner Mount	\$199
ACC-MNT-11	Verkada Square Junction Box Mount	\$89
INJ-POE-PLUS	Verkada PoE Plus (802.3at) Injector, GigE	\$129

### Viewing Station pricing

VX52-HW	VX52 Viewing Station	\$499
LIC-VX-1Y	1-Year Viewing Station License	\$499
LIC-VX-3Y	3-Year Viewing Station License	\$1,299
LIC-VX-5Y	5-Year Viewing Station License	\$1,999
LIC-VX-10Y	10-Year Viewing Station License	\$3,999