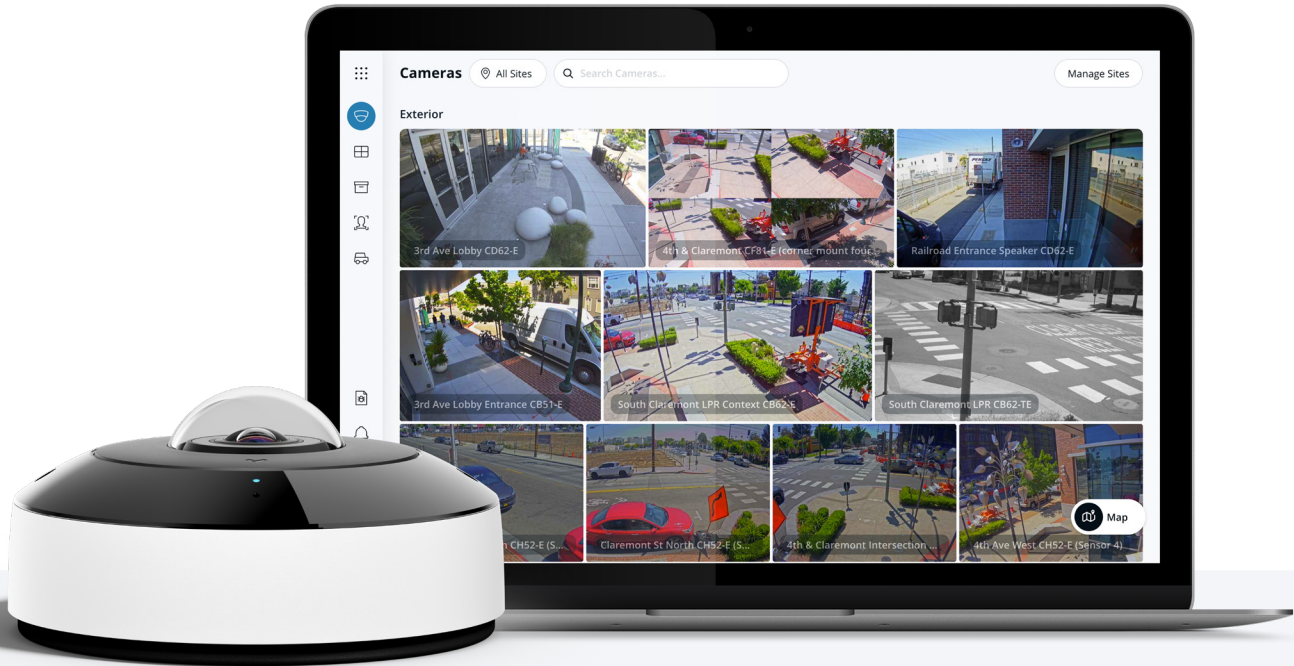# Strengthen and Simplify
Security at Scale

Overview

Verkada's line of hybrid cloud security cameras combine powerful edge–based processing with the scale and flexibility of cloud computing. With Verkada's hybrid cloud architecture, cameras analyze events in real–time, and simultaneously leverage Verkada's unique AI and computer vision technology that, collectively, reduce investigation times and deliver proactive monitoring.

All cameras have built–in onboard storage with up to 365 days of continuous recording in standard quality. With Verkada, organizations no longer need to worry about managing and maintaining devices like NVRs. Verkada cameras can self–manage, process, and safely store footage locally on each device, while unlimited cloud-based archiving allows organizations to save and share as much footage as needed.

Available in a wide range of form factors, including indoor and outdoor models, Verkada security cameras work out–of–the–box without any additional downloads or configurations. Users can access events and associated footage from virtually anywhere and from any device. Most importantly, without needing to open port forwards or setup VPNs, all Verkada traffic is automatically protected with data encrypted in transit and at rest.[1] What's more, organizations can leverage enterprise-controlled encryption for even more robust data protection and control.

---

1. Data on device is encrypted at rest using AES-128. Data in the cloud is encrypted at rest using AES-256.
   Data in transit to the cloud is encrypted using TLS 1.2 or greater.

Video Security Hardware
A Wide Range of Form Factors Built for Any Need

Dome Series

- Versatile form factor for indoor and outdoor deployments
- Image resolutions ranging from 3MP–4K
- Up to 365 days of retention in standard quality

Mini Series

- Low–profile form factors for any environment
- Available in 3MP or 5MP image resolution
- Up to 365 days of retention in standard quality

Fisheye Series

- Five viewing modes: Panoramic, PTZ, 2–way split, 3–way split and 4–way split
- High–resolution image quality with up to 12.5MP image resolution
- Up to 120 days of retention in standard quality

Bullet Series

- Available in wide-angle and telephoto lens options
- Available in 5MP and 4K image resolutions
- Up to 365 days of retention in standard quality
- License plate recognition capabilities

Multisensor Series

- Form factors offering two or four independent image sensors from a single install point
- Comprehensive coverage with 5MP or 4K resolution
- Up to 365 days of retention in standard quality

Pan-Tilt-Zoom Series

- Available in 5MP and 4K image resolutions
- Dynamic monitoring with 360° pan and 220° tilt
- Long range visibility with 28-32x optical zoom and 100m / 328ft IR illumination
- Up to 180 days of retention in standard quality

Remote Series

- Built-in LTE provides internet in hard-to-wire locations
- Detailed 4K image resolution
- Up to 120 days of retention in standard quality
- License plate recognition capabilities

Verkada Hybrid Cloud Benefits Overview

No NVR or DVRs
Enterprise-grade onboard storage saves up to 365 days of continuous video[1]

Easy to scale
Bandwidth friendly and supports thousands of globally-distributed sites

Centralized management
Modern platform enables secure remote access on any supported browser or device

The Reliability of Onboard Storage, With the Accessibility and Scalability of the Cloud

Lightweight, hassle-free installation
- No NVRs, DVRs, or servers—just a PoE connection
- Cameras come online and configure in minutes without 3rd party plugins, thick clients, or downloads
- No additional software or complexities like port forwarding

Easy to use
- Intuitive UI for streamlined investigations and quick incident resolution
- Provision user accounts to access footage and features without additional training
- Find, download, and share footage from any supported browser or device

Predictable total cost of ownership
- Hardware includes a 10-year warranty[2]
- New software features are pushed over-the-air, without any additional cost

Scalable across sites
- Onboard storage and processing for reduced bandwidth consumption
- Cloud-based management platform centralizes globally-distributed devices
- Automatic firmware updates keep systems secure, eliminating the need for ongoing maintenance

---

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 CD22, CD22-E, and all PTZ cameras come with a 5-year warranty.

Verkada Command: Centralized, Cloud-Based Management for Distributed Deployments
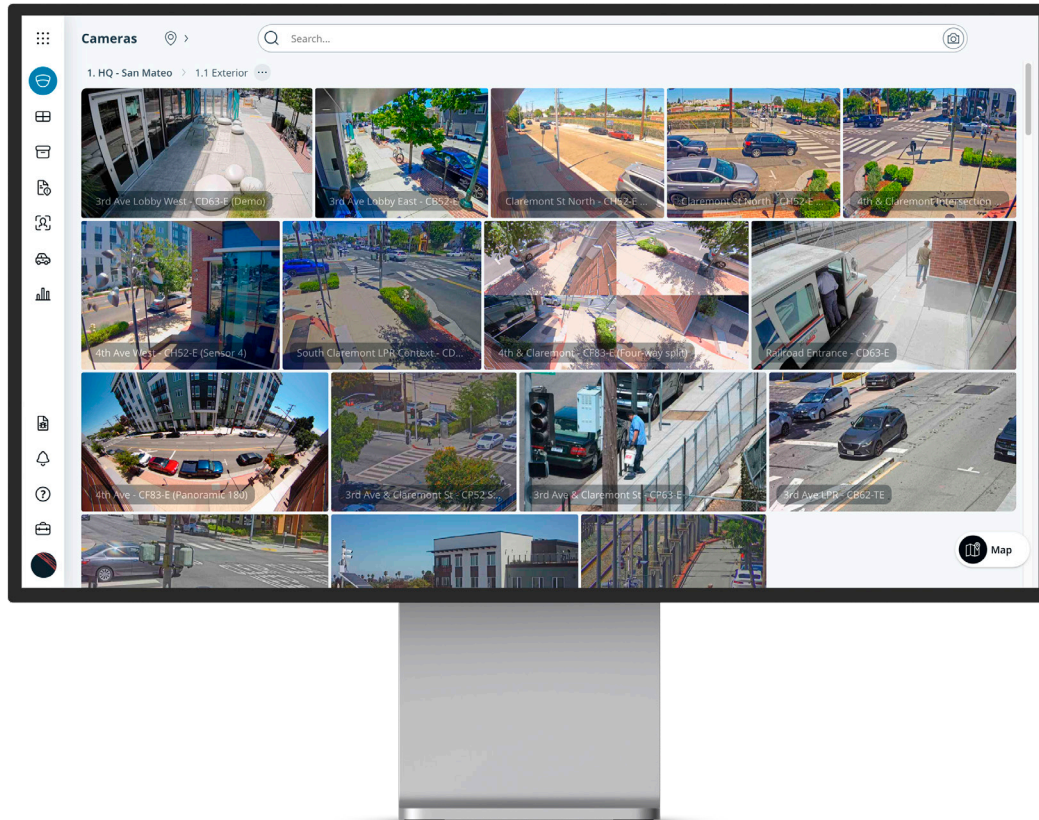
Command, Verkada's cloud-based management software, centralizes management of Verkada devices across globally-distributed sites. Within Command, users can provision new cameras, create and organize sites, manage device settings, access live and historical footage, manage users, and leverage advanced analytics.

Manage from anywhere

- Remotely access footage and manage devices from any supported browser or device
- Leverage the Command mobile app for visibility on the go

Scale with simplicity

- Add more devices and sites without complicating the user experience
- Leverage granular roles and permissions to manage users at scale
- SAML-based integration with single sign-on (SSO) solutions

Keep data secure

- Enterprise-controlled encryption provides robust data protection, security, and control
- Stay secure with data encrypted in transit and at rest[1]
- Receive automatic firmware updates to stay a step ahead of emerging threats

Quickly detect and respond to threats

- Stay informed with customizable, intelligent alerts
- Filter people using attribute search and create person of interest (POI) profiles for specific subjects
- Search and filter to find vehicles and license plates of interest

Streamline incident management

- Accelerate investigations with intelligent people, face, and vehicle detection
- Consolidate relevant footage to easily review and share with internal and external stakeholders

Archive and share over the cloud

- Command licenses include unlimited cloud archiving and 30-days of cloud backup
- Easily export any footage in MP4 format and allow recipients to verify its authenticity
- Share live links and historical footage with first responders

1. Data on device is encrypted at rest using AES-128. Data in the cloud is encrypted at rest using AES-256. Data in transit to the cloud is encrypted using TLS 1.2 or greater.

Verkada's AI-Powered Search
Use Natural Language to Conduct Investigations and Create Alerts Directly Relevant to Your Organization
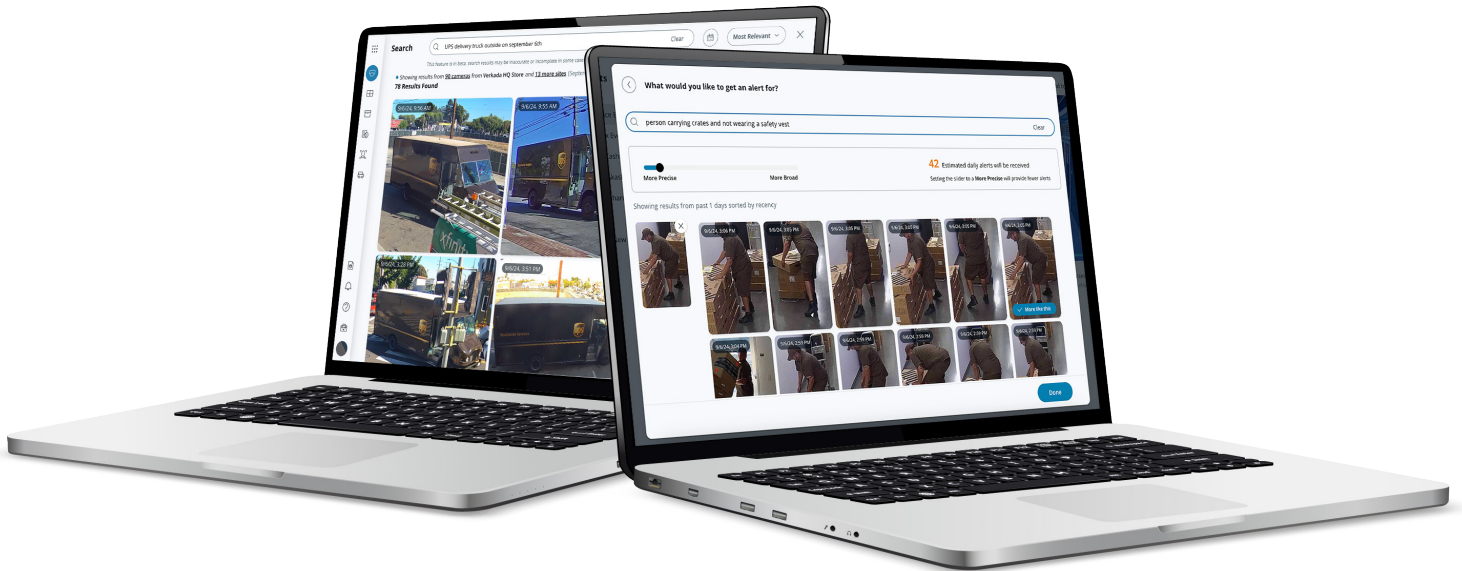
Verkada's AI-powered search in Command gives users the ability to search and create real-time alerts for a near-limitless number of attributes of people and vehicles across their organization. With AI-powered search, users can leverage their own words in a freeform search bar or upload a photo to search for a person or vehicle of interest and conduct highly-granular investigations in seconds.

Use everyday language or upload an image to get results in seconds

- Search for specific attributes of people like articles of clothing, hair styles, brands, as well as attributes of vehicles, like tinted windows, text (such as "UPS truck" or "San Mateo School bus"), and bumper stickers, that make investigations more accurate and streamlined.
- Use AI-powered reverse image search to upload a photo of a person, vehicle, or object and retrieve the likeliest set of matches from one's camera fleet. [2] Use this reverse image analysis to see if non-person and non-vehicle objects were carried, held, worn, or attached to a person or vehicle.[3]
- Use AI-powered reverse image search to help identify individuals when faces are not fully visible.

Conduct investigations that address different industry-specific use cases by time and location[1]

- Better investigate slip-and-fall cases, shoplifting, break-ins, occupational hazards, workplace safety compliance and more, using freeform queries.
- Organize searches by time and location for added specificity and more relevant insights of people and vehicles.
- Use "NOT," "AND," and "OR" in queries to search for multiple identifying attributes or for missing attributes (e.g., "Person driving a forklift and wearing a safety vest, but not a hardhat").

Create proactive alerts in one click using freeform text queries

- Turn queries into action with AI-powered alerts and generate notifications directly relevant to one's security and operational needs.
- Adjust the frequency of alerts with a slider that tailors the accuracy of results.
- Share alerts in real-time and use the "More like this" feature to generate even more specific results from one's queries.

1. Check out our User Guide for example queries and methods for constructing queries relevant to organizational requirements.
2. AI-powered reverse image analysis pulls multiple aspects of an uploaded image, like shapes, pixels, patterns, and other granular details, then delivers the most reasonable matches from one's footage.
3. Results leverage "hyperzooms," which are highly-detailed segments of a video frame that contain images of a person or a vehicle only, typically the most important parts of an investigation. If an uploaded image does not include a person or vehicle (i.e., a standalone object), results will be directed to "hyperzooms" of people and vehicles that include the object (e.g., if uploading a standalone suitcase, the search will return results of a person holding a suitcase or a suitcase attached to a vehicle).

Verkada's People and Vehicle Analytics

Simplify Investigations with Intelligent People, Face, and Vehicle Detection
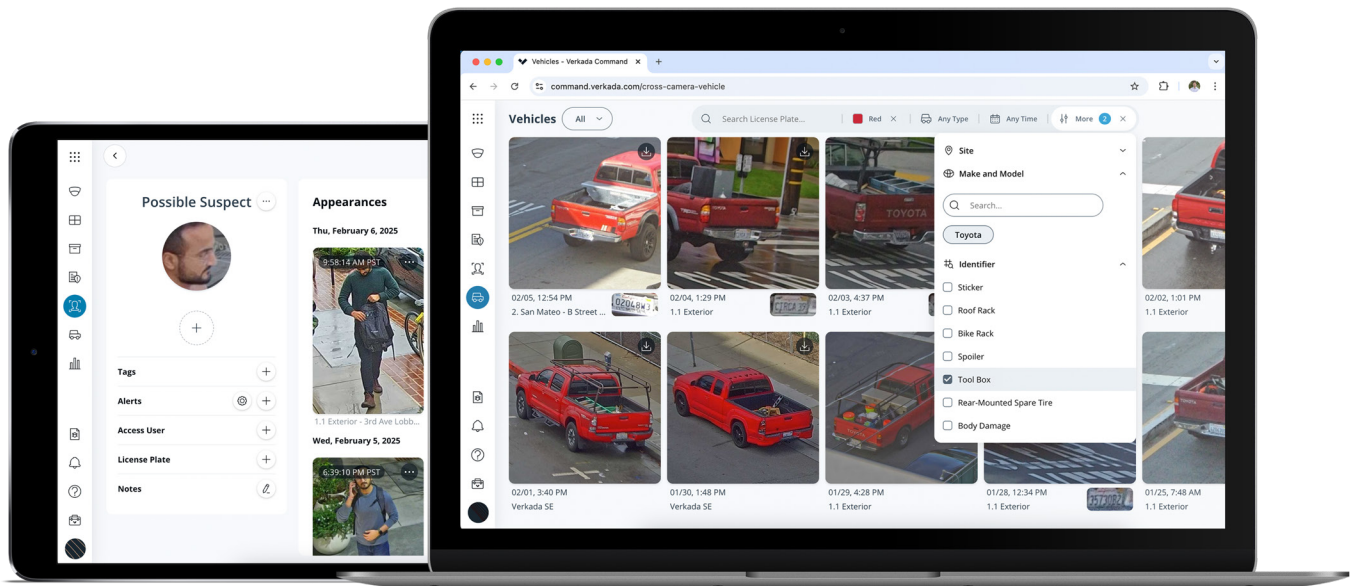
People and vehicle analytics combine intelligent edge-based video processing with computer vision to give users high-quality, cloud-based images of all individuals and vehicles identified across one's camera fleet. Using these analytics, security teams can filter for specific people or vehicles based on specific attribute descriptions.

Bring Intelligence to Investigations

Face search

- Quickly surface all appearances of a possible suspect by searching across all cameras for facial matches in a privacy-sensitive way[1]

Person and license plate of interest notifications

- Create a person of interest using an uploaded photo or existing face in Command
- Search for and designate specific license plates of interest[2]
- Set up proactive SMS, email, or push notifications for when a matching person or license plate of interest is detected
- Link people of interest and license plates of interest to create a comprehensive profile of suspects in question

Person and vehicle history

- Browse through high-resolution snapshots of people and vehicles detected
- Click into a snapshot of a suspect and use AI-powered timeline to find all other instances of the individual in question throughout one's fleet

Attribute filters

- Search for people and vehicles using a detailed list of prescribed attribute filters
- Use the vehicle search page to filter footage by vehicle color, type, virtually any make and model, and unique identifiers like noticeable body damage
- Use the people search page to filter footage by clothing color, gender appearance, and the presence of hard hats, safety vests, and other PPE – ideal for ensuring workplace safety

1. At Verkada, we intentionally do not train our people analytics models to identify sensitive characteristics such as race, ethnicity, age, or other demographic information. We also set administrative guardrails around the use of people analytics: it is disabled by default and after opting in, only users authorized by an organization's admin may enable or view analytics on a given device.
2. License plate recognition is only supported on Verkada's Bullet series and Remote series cameras.

License Plate Recognition

Enhanced Vehicle Insights with Verkada's Powerful LPR Camera Solution
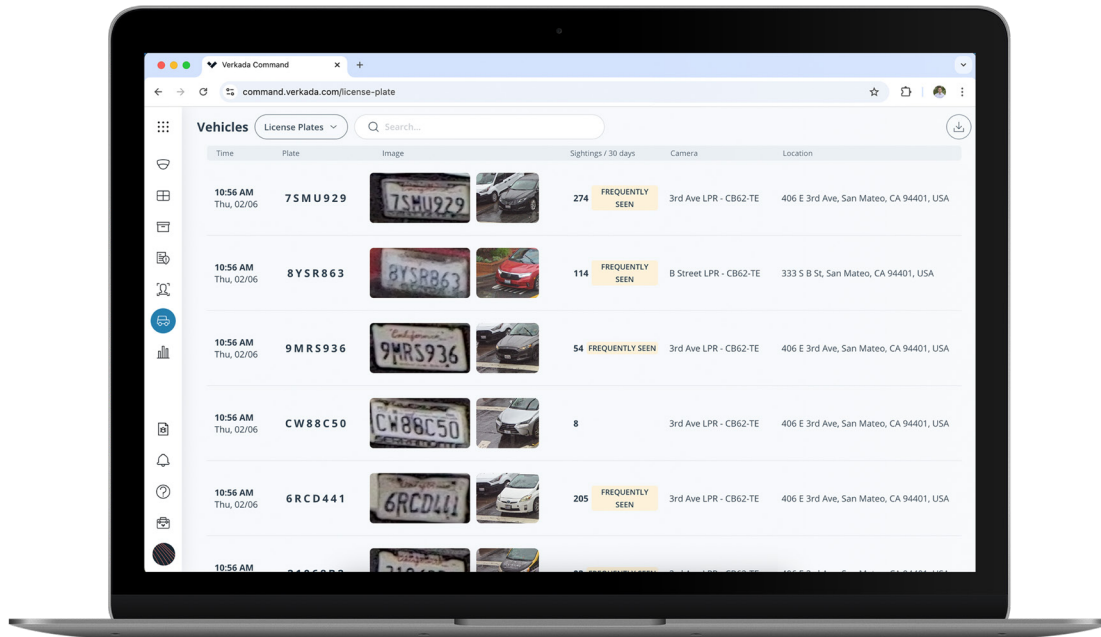
Verkada's license plate recognition (LPR) solution allows organizations to monitor license plates in real-time and streamline vehicle investigations. The solution uses Verkada's edge-based processing and computer vision technology to capture license plate images and provide users with a readable and 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 coverage

Capture license plate characters at speeds of up to 80 mph / 128 kph, cover up to three lanes of traffic and identify international or U.S. state-specific license plates – all with high precision and low latency[1]

Conduct exhaustive vehicle investigations

Use LPR to reconstruct a map of a vehicles' whereabouts and help security teams pinpoint vehicles of interest across expansive areas, like multiple city blocks

Find license plates even with limited information

Verkada's LPR provides approximate license plate matches even if the inputted characters are incorrect or if the system is unable to detect all characters

Receive custom license plate recognition Alerts

Send alerts via SMS, email, or mobile app to specific individuals or entire teams when designated license plates are detected across LPR-enabled cameras

1. For best results, install cameras as outlined in the User Guide for License Plate Recognition.

Enterprise-Controlled
Encryption(ECE)

Overview

Verkada encrypts video data at rest (i.e., on the user's device or on Verkada's cloud servers) and in transit (i.e., as data moves among devices and the cloud). Enterprise-controlled encryption (ECE) builds on this encryption framework by giving customers more control over their data encryption. Leveraging a well-recognized technique called client-side encryption, customers can choose to keep some keys to themselves, share them with Verkada if they need technical support, or with a third party for a variety of reasons, as outlined below. ECE improves on Verkada's already robust data protection measures– empowering customers with control over their data.

Customers must opt-in and enable ECE for their devices. ECE will not be enabled for customers by default. To opt-in, navigate to "Login & Access" under "Admin" settings. Click on "Enterprise Controlled Encryption (ECE)" and complete all the steps.

An Added Layer of Protection	With ECE, decryption requires access to two keys: one key is on Verkada servers, while the other is stored with the customer's identity provider (e.g., Okta, Microsoft Entra ID, etc.) Both keys are required to decrypt certain data including most video history, so even if there is a breach at the identity provider or Verkada, the customer's data remains secure. ECE is, in short, an enhanced, robust security method for data storage and transfer, combining the existing secure decryption step on Verkada's servers with a second step on the customer's own devices.
Customers Control Key Access	ECE puts decryption keys directly in our customers' hands–allowing them to selectively share access on an as-needed basis. This flexibility allows customers to leverage the expertise of specialized services or comply with legal requirements, while maintaining control over their data.[1] ECE allows the customer to decide who gets access to data, for how long, and to what extent.

---

1. Using ECE, a customer might wish to share its decryption keys with third parties for a number of reasons. A customer can allow a cybersecurity firm to conduct a safety audit to analyze video data without having permanent device access. During a time-sensitive investigation, a customer can additionally provide specific keys to law enforcement to grant access to relevant footage without exposing their entire video archive. A customer can, moreover, use a transcoding service to change the format of video or employ translation services and grant the service provider limited, task-specific access to data.

Gain Insights Into How Spaces are Used with Occupancy Trends

Verkada's smart trends page offers powerful widgets that give organizations insight into how their physical space is used. Organizations can use the occupancy trends widget to aggregate data across multiple camera feeds, providing a comprehensive view of foot and vehicle traffic patterns throughout an area.

The occupancy trends widget allows organizations to:

- Analyze real-time and historical occupancy data for both people and vehicles.
- Monitor trends over various timeframes (daily, weekly, monthly, or a custom date range).
- Identify peak and average occupancy and underutilized areas for both foot and vehicle traffic.

Actionable insights to inform key operational decisions

Use Verkada's occupancy trends widget to boost efficiency and gain actionable insights in key areas across an organization:

- **Staffing optimization**
  Allocate staff based on real-time occupancy needs, considering both foot and vehicle traffic patterns.
- **Inventory management**
  Anticipate demand and optimize inventory levels based on traffic patterns in storage areas and loading zones.
- **Energy efficiency**
  Identify underutilized spaces for potential HVAC adjustments based on combined foot and vehicle traffic.
- **Improved traffic flow**
  Analyze vehicle traffic patterns to identify bottlenecks and congestion points, optimizing traffic flow through signage or delivery schedule adjustments.

Operational benefits across diverse industries

Retail: Optimize product placement, predict peak traffic periods (foot and vehicle), and analyze sales conversion rates.

Manufacturing: Improve production line workflows, identify bottlenecks, and optimize warehouse safety by monitoring foot and vehicle traffic patterns.

Healthcare: Enhance patient experience by proactively allocating resources based on real-time space usage, including foot traffic, ambulance arrivals, and parking lot activity.

Education: Support student safety and optimize class scheduling by understanding student movement patterns, foot and vehicle traffic around drop-off and pick-up zones.

Real Estate: Dynamically adjust HVAC usage based on foot traffic in a building, repurpose underutilized spaces, and make data-driven space planning decisions.
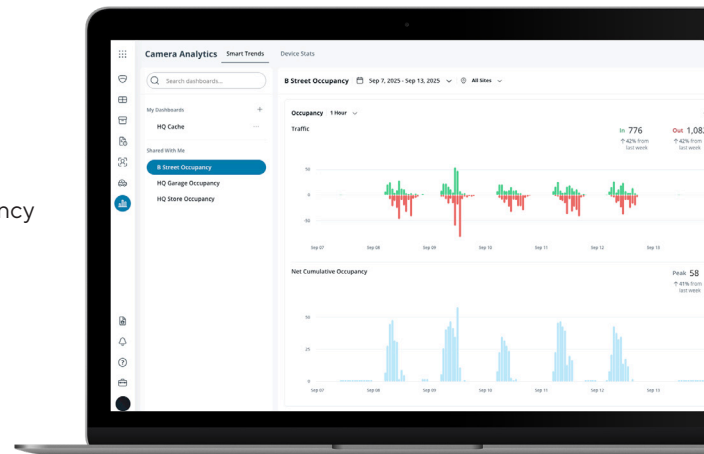
Customization and collaboration

The occupancy trends widget can be customized to an organization's specific needs. It is also easy to enable other individuals in an organization to view the same dashboard–facilitating easy collaboration among building managers, EHS officers, and frontline staff.

Maximizing value with two key views[1]

1. Traffic

The "Traffic" section shows the number of subjects entering and exiting the designated space over a specified time period (e.g., day, week, month, or a custom range). Bar graph data can be displayed in 1 day, 1 hour, and 15 minute increments, or users can opt to view the hourly average across the selected time period. This dashboard also displays a percentage change indicating the change in movements relative to the previous time interval.

2. Net Cumulative Occupancy

The "Net Cumulative Occupancy" section subtracts the number of subjects exiting the space from the number of subjects entering the space to estimate total occupancy at a given point in time. By default, this number resets to zero at midnight local time, but organizations can customize this setting. Like the "Traffic" section, data can be displayed in 1 day, 1 hour, and 15 minute increments, or users can opt to view the hourly average across the selected time period. This dashboard also displays a percentage change indicating the change in peak occupancy relative to the previous time interval.

1. For details on how to create and interpret occupancy trends widgets, read our camera analytics overview here.

CD22
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	3MP (2048 x 1536)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	2.8mm	**IR Range**	10m / 33ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 768GB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	**CPU**	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 355° Rotation: 180°		

Standard video settings

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

Standard audio settings

Audio	Not Supported

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.23-0.15A, 8.6W Without IR: 37-57V, 0.11-0.07A, 4.3W Extended temperature range: N/A	**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. 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.
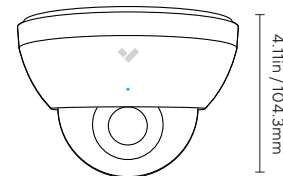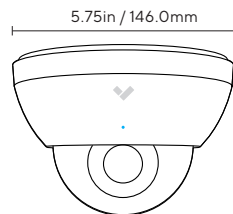
CD22
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power and status indicator
Humidity	0 to 90%	**Warranty**	5 Years
Certifications	FCC, ICES, CE, UKCA, RCM, CB, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1, IK08 impact rating, FY2019 NDAA compliant	**Included Accessories**	Setup guide, T10 security torx screwdriver, screw pack, mounting template

Mechanical

Weight	Camera: 608g / 21.45oz Mountplate: 140g / 4.94oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 146.0mm / 5.75in, H: 104.3mm / 4.11in with mount plate Ø: 146.0mm / 5.75in, H: 99.8mm / 3.93in without mount plate		

Dimensions

5.75in / 146.0mm

4.11in / 104.3mm

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, crowd detection, line-crossing detection, loitering detection	**Streaming and Storage**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics	Motion search, trajectory analysis	**Sharing and Privacy**	Live Links, live face blur, privacy regions, audit log
Vehicle Analytics	Motion search, trajectory analysis		

CD32
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	3MP (2048 x 1536)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	2.8mm	**IR Range**	15m / 49ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 768GB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	**CPU**	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 355° Rotation: 180°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 15ft

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.23-0.15A, 8.6W Without IR: 37-57V, 0.11-0.07A, 4.3W Extended temperature range: N/A	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
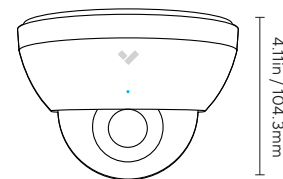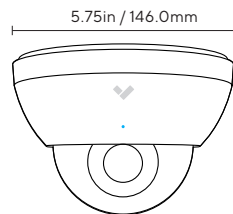
CD32
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power and status indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, CE, UKCA, RCM, CB, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1, IK08 impact rating, FY2019 NDAA compliant	**Included Accessories**	Setup guide, T10 security torx screwdriver, screw pack, mounting template

Mechanical

Weight	Camera: 608g / 21.45oz Mount plate: 140g / 4.94oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 146.0mm / 5.75in, H: 104.3mm / 4.11in with mount plate Ø: 146.0mm / 5.75in, H: 99.8mm / 3.93in without mount plate		

Dimensions

5.75in / 146.0mm

4.11in / 104.3mm

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		

CD43
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	3.2mm	**IR Range**	20m / 66ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 101° (84°) Vertical: 73° (66°) Diagonal: 130° (99°)	**CPU**	Ambarella CV75S88
Sensor Movement	Tilt: 60° Pan: 360° Rotation: 350°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[4]	With IR: IEEE 802.3at Type 2 PoE+ Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37V-57V, 0.39A-0.29A, 16.8W Without IR: 37V-57V, 0.23A-0.15A, 8.5W Extended temperature range: N/A	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.

CD43
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NOM, VCCI, ICASA, IK08 impact rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, T10 security driver

Mechanical

Weight	Camera: 951g / 33.55oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 109.0mm / 4.29in with mount plate Ø: 155.0mm / 6.10in, H: 101.9mm / 4.01in without mount plate		

Dimensions

6.10in / 155.0mm

4.29in / 109.0mm

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		

CD53
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	**IR Cut Filter**	Yes
Focal Length	2.8-8mm	**IR Range**	30m / 98ft
Aperture	F1.3 - F2.4	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	**Onboard Storage**	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 109° - 39° (91° - 36°) Vertical: 80° - 29° (71° - 28°) Diagonal: 140° - 48° (107° - 44°)	**CPU**	Ambarella CV75S88
Sensor Movement	Tilt: 60° Pan: 360° Rotation: 350°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[4]	With IR: IEEE 802.3at Type 2 PoE+ Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37V-57V, 0.39A-0.29A, 16.8W Without IR: 37V-57V, 0.23A-0.15A, 8.5W Extended temperature range: N/A	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
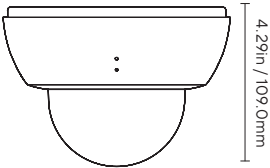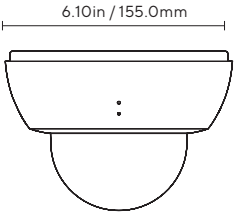
CD53
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NOM, VCCI, IK08 impact rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, T10 security driver

Mechanical

Weight	Camera: 963g / 33.97oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 109.0mm / 4.29in with mount plate Ø: 155.0mm / 6.10in, H: 101.9mm / 4.01in without mount plate		

Dimensions

6.10in / 155.0mm

4.29in / 109.0mm

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		

CD63
Tech Specs

Camera features

Image Sensor	1 / 1.2" 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	5.9 - 13.3mm	**IR Range**	40m / 130ft
Aperture	F1.5 - F2.9	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	**Onboard Storage**	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 109° - 49° (102° - 47°) Vertical: 58° - 28° (58° - 27°) Diagonal: 113° - 55° (107° - 53°)	**CPU**	Ambarella CV72S66
Sensor Movement	Tilt: 65° Pan: 360° Rotation: 350°		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[4]	With IR: IEEE 802.3at Type 2 PoE+ Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 43-57V, 0.48-0.36A, 20.4W Without IR: 43-57V, 0.20-0.27A, 11.3W Extended temperature range: N/A	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
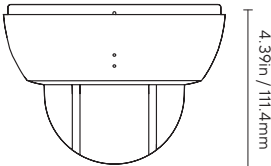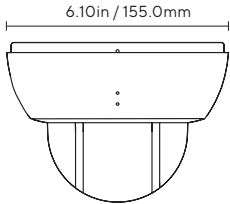
CD63
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power, status indicator, and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, VCCI, NOM, KCC, IEC 62368-1, IK08 impact rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, T10 security driver

Mechanical

Weight	Camera: 1324g / 46.70oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 111.4mm / 4.39in with mount plate Ø: 155.0mm / 6.10in, H: 104.4mm / 4.11in without mount plate		

Dimensions

6.10in / 155.0mm

4.39in / 111.4mm

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		

CD22-E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	3MP (2048 x 1536)	Day/Night	IR-cut filter for day and night function
Lens Type	Fixed	IR Cut Filter	Yes
Focal Length	2.8mm	IR Range	10m / 33ft
Aperture	F1.6	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	Onboard Storage	Capacity: From 256GB to 768GB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	CPU	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 355° Rotation: 180°		

Standard video settings

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

Standard audio settings

Audio	Not Supported

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: IEEE 802.3at Type 2 PoE+	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.23-0.15A, 8.6W Without IR: 37-57V, 0.11-0.07A, 4.3W Extended temperature range: 37-57V, 0.46-0.30A, 16.9W	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. 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.
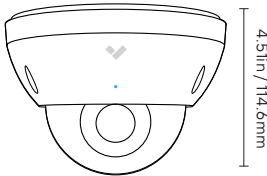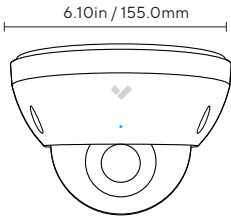
CD22-E
Tech Specs

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, ICES, CE, UKCA, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1, CB, IP67 weather rating, IK10 impact rating, FY2019 NDAA compliant	**Included Accessories**	Setup guide, wall mount screws & anchors (4x), T10 security torx screwdriver, mounting template, cable gland wrench, desiccant pack, conduit adapter

Mechanical

Weight	Camera: 847g / 29.88oz Mount plate: 174g / 6.14oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 114.6mm / 4.51in with mount plate Ø: 155.0mm / 6.10in, H: 107.6mm / 4.24in without mount plate		

Dimensions

6.10in / 155.0mm

4.51in / 114.6mm

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, crowd detection, line-crossing detection, loitering detection	**Streaming and Storage**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics	Motion search, trajectory analysis	**Sharing and Privacy**	Live Links, live face blur, privacy regions, audit log
Vehicle Analytics	Motion search, trajectory analysis		

CD32–E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	3MP (2048 x 1536)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	2.8mm	**IR Range**	15m / 49ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 768GB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	**CPU**	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 355° Rotation: 180°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 15ft

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: IEEE 802.3at Type 2 PoE+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.23-0.15A, 8.6W Without IR: 37-57V, 0.11-0.07A, 4.3W Extended temperature range: 37-57V, 0.46-0.30A, 16.9W	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
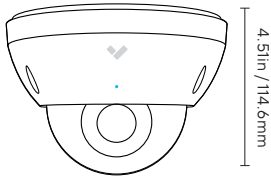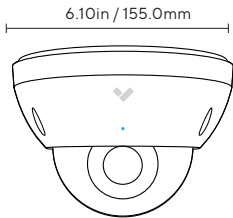
CD32–E
Tech Specs

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, KCC, BIS, NOM, UL/cUL/IEC 62368-1, CB, IP67 weather rating, IK10 impact rating, FY2019 NDAA compliant	**Included Accessories**	Setup guide, wall mount screws and anchors (4x), T10 security torx screwdriver, mounting template, cable gland wrench, desiccant pack, conduit adapter

Mechanical

Weight	Camera: 847g / 29.88oz Mount plate: 174g / 6.14oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 114.6mm / 4.51in with mount plate Ø: 155.0mm / 6.10in, H: 107.6mm / 4.24in without mount plate		

Dimensions

6.10in / 155.0mm

4.51in / 114.6mm

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		

CD43–E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	3.2mm	**IR Range**	20m / 66ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 101° (84°) Vertical: 73° (66°) Diagonal: 130° (99°)	**CPU**	Ambarella CV75S88
Sensor Movement	Tilt: 60° Pan: 360° Rotation: 350°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[4]	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+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37V-57V, 0.39A-0.29A, 16.8W Without IR: 37V-57V, 0.23A-0.15A, 8.5W Extended temperature range: 37V-57V, 0.48A-0.35A, 20.2W	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.

CD43–E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NOM, VCCI, IK10 impact rating, IP66/IP67 weather rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, cable sealing rubber for 6.5-7.5mm, conduit adapter, T10 security driver, desiccant 4.5g

Mechanical

Weight	Camera: 1100g / 38.80oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 111.4mm / 4.39in with mount plate Ø: 155.0mm / 6.10in, H: 104.4mm / 4.11in without mount plate		

Dimensions

6.10in / 155.0mm

4.39in / 111.4mm

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		

CD53–E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	**IR Cut Filter**	Yes
Focal Length	2.8-8mm	**IR Range**	30m / 98ft
Aperture	F1.3 - F2.4	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	**Onboard Storage**	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 109° - 39° (91° - 36°) Vertical: 80° - 29° (71° - 28°) Diagonal: 140° - 48° (107° - 44°)	**CPU**	Ambarella CV75S88
Sensor Movement	Tilt: 60° Pan: 360° Rotation: 350°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[4]	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+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37V-57V, 0.39A-0.29A, 16.8W Without IR: 37V-57V, 0.23A-0.15A, 8.5W Extended temperature range: 37V-57V, 0.48A-0.35A, 20.2W	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
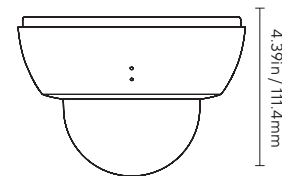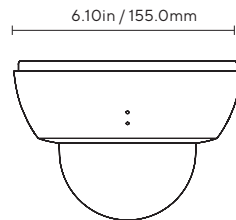
CD53–E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NOM, VCCI, ICASA, IK10 impact rating, IP66/67 weather rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, cable sealing rubber for 6.5-7.5mm, conduit adapter, T10 security driver, desiccant 4.5g

Mechanical

Weight	Camera: 1137g / 40.11oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 111.4mm / 4.39in with mount plate Ø: 155.0mm / 6.10in, H: 104.4mm / 4.11in without mount plate		

Dimensions

6.10in / 155.0mm

4.39in / 111.4mm

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		

CD63-E
Tech Specs

Camera features

Image Sensor	1 / 1.2" 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	5.9 - 13.3mm	IR Range	40m / 130ft
Aperture	F1.5 - F2.9	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	Onboard Storage	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 109° - 49° (102° - 47°) Vertical: 58° - 28° (58° - 27°) Diagonal: 113° - 55° (107° - 53°)	CPU	Ambarella CV72S66
Sensor Movement	Tilt: 65° Pan: 360° Rotation: 350°		

Standard video settings

Compression	H.265, H.264	Historical Video Settings	Adaptive quality[1]
Frame Rate[3]	24fps	Live Streaming Settings	High quality (HQ): Up to 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps

Standard audio settings

Audio	Supported	Interface	Built-in microphone
Audio Capacity	One-way audio	Effective Range	5m / 16ft

Power and network

Power Input[4]	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+	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 43-57V, 0.48-0.36A, 20.4W Without IR: 43-57V, 0.27-0.20A, 11.3W Extended temperature range: 43-57V, 0.60-0.45A, 25.5W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
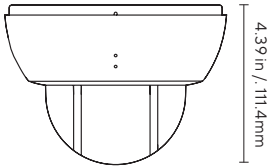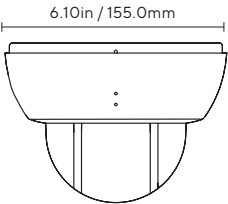
CD63-E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NTRA, NOM, KCC, VCCI, IK10 impact rating, IEC 62368-1, IP66/67 weather rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, cable sealing rubber for 6.5-7.5mm, conduit adapter, T10 security driver, desiccant 4.5g

Mechanical

Weight	Camera: 1386g / 48.89oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 111.4mm / 4.39in with mount plate Ø: 155.0mm / 6.10in, H: 104.4mm / 4.11in without mount plate		

Dimensions

6.10in / 155.0mm

4.39in / 111.4mm

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		

CM22
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	3MP (2048 x 1536)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	2.8mm	**IR Range**	10m / 33ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 768GB Card: MicroSD, SDXC
Field of View (after LDC[2]**)**	Horizontal: 95° (79°) Vertical: 69° (62°) Diagonal: 130° (96°)	**CPU**	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 350° Rotation: 180°		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps
WDR Technology	104 dB dynamic range, true WDR, dual exposure		

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37-57V, 0.17-0.11A, 6.1W Without IR: 37-57V, 0.09-0.06A, 3.2W Extended temperature range: N/A	**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. 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.
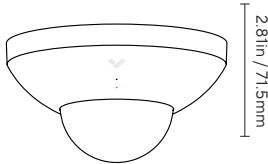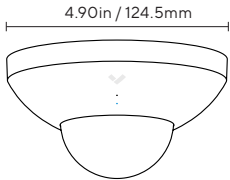
CM22
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power and status indicator
Humidity	0 to 90%	**Warranty**	5 Years
Certifications	FCC, ICES, CE, UKCA, RCM, VCCI, KCC, BIS, NOM, NRKZI, EAC, EN 50155, UL/cUL/IEC 62368-1, FY2019 NDAA compliant	**Included Accessories**	Setup guide, T10 security torx screwdriver, 3x wingnuts, 3x washers, 3x TP4.0 mount screws, 3x M4 wall screws, 3x wall anchors

Mechanical

Weight	Camera: 290g / 10.23oz Mount plate: 98g / 3.46oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 124.5mm / 4.90in, H: 71.5mm / 2.81in		

Dimensions

4.90in / 124.5mm

2.81in / 71.5mm

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, crowd detection, line-crossing detection, loitering detection	**Streaming and Storage**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics	Motion search, trajectory analysis	**Sharing and Privacy**	Live Links, live face blur, privacy regions, audit log
Vehicle Analytics	Motion search, trajectory analysis		

CM42
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2592 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	2.8mm	**IR Range**	20m / 66ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 95° (79°) Vertical: 69° (62°) Diagonal: 130° (96°)	**CPU**	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 350° Rotation: 180°		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps
WDR Technology	104 dB dynamic range, true WDR, dual exposure		

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 15ft

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37-57V, 0.17-0.11A, 6.1W Without IR: 37-57V, 0.09-0.06A, 3.2W Extended temperature range: N/A	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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.
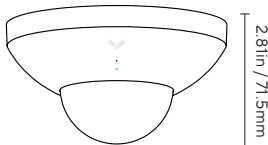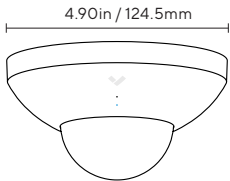
CM42
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°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, KCC, BIS, NOM, MoE, NRKZI, EN 50155, UL/cUL/IEC 62368-1, IK08 impact rating, FY2019 NDAA compliant	**Included Accessories**	Setup guide, T10 security torx screwdriver, 3x wingnuts, 3x washers, 3x TP4.0 mount screws, 3x M4 wall screws, 3x wall anchors

Mechanical

Weight	Camera: 290g / 10.23oz Mount plate: 98g / 3.46oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 124.5mm / 4.90in, H: 71.5mm / 2.81in		

Dimensions

4.90in / 124.5mm

2.81in / 71.5mm

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		

CM41–E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	2.8mm	**IR Range**	15m / 49ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 128GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	**CPU**	Ambarella S5L63
Sensor Movement	Tilt: 70° Pan: 355° Rotation: 240°		

Standard video settings

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

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 15ft

Power and network

Power Input[4]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: IEEE 802.3af Type 1 PoE	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.14-0.09A, 5.5W Without IR: 37-57V, 0.08-0.05A, 3.2W Extended temperature range: 37-57V, 0.27-0.17A, 10.1W	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

---

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.

CM41–E
Tech Specs

General

Operating Temperature	-40°C to 55°C / -40°F to 131°F	**LED Indicator**	System power and status indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, CE, UKCA, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1, CB, IP67 weather rating, IP6K9K, IK10 impact rating, IEC 60950, FY2019 NDAA compliant, EN 50155, EN 45545, EN 50121	**Included Accessories**	Setup guide, T10 security torx screwdriver, wall mount screws (3x), junction box screws (2x), mounting template, desiccant bags, cable sealing components

Mechanical

Weight	Camera: 401g / 14.14oz Mount plate: 138g / 4.87oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 121.0mm / 4.78in, H: 72.0mm / 2.83in		

Dimensions

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd 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, motion search, selective face blurring, AI-powered search	**Sharing and Privacy**	Live link, privacy regions, audit log
Vehicle Analytics	Vehicle search, attribute search, motion search, AI-powered search		

CM42-S
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2592 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	3.2mm	**IR Range**	15m / 49ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB, 768GB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 99° (80°) Vertical: 71° (63°) Diagonal: 107° (92°)	**CPU**	Ambarella CV25S88
Inputs/Ouputs	3.5mm audio input, micro-HDMI output, +/- AUX[4] with 12V / 4W power output, USB-C sensor input [3]		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[5]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps
WDR Technology	104 dB dynamic range, true WDR, dual exposure		

Standard audio settings

Audio	Supported	**Interface**	3.5mm audio input
Audio Capacity	One-way audio		

Power and network

Power Input[6]	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[6]	With IR: 37-57V, 0.20-0.13A, 7.3W Without IR: 37-57V, 0.12-0.08A, 4.3W Extended temperature range: N/A	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

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. Should the customer choose to use their own USB-C cable, it must be USB-C 3.1 (or higher) speed rated.
4. +/- Aux not currently supported. Support is forthcoming.
5. Frame rate can be adjusted by support.
6. Extended temperature range includes operating temperatures below -8.5°C / 16.7°F and assumes IR will be enabled.
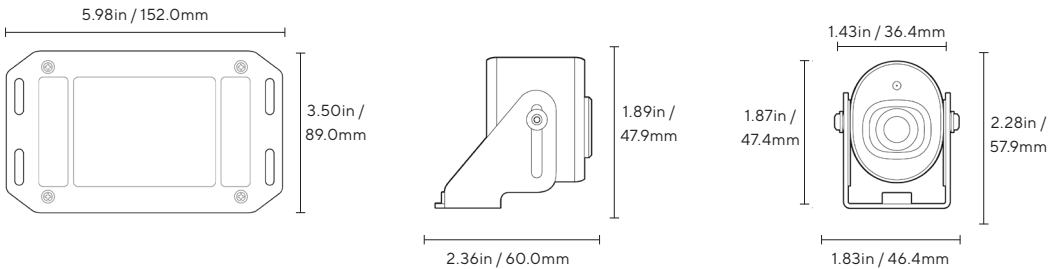
CM42-S
Tech Specs

General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power and status indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, IC, UL/cUL/IEC 62368-1, VCCI, NOM	**Included Accessories**	T10 security torx screwdriver, 1x 1/4"-20 screw, 4x wall screws, 4x wall anchors, 1x 2m USB-C cable, double-sided tape for wall mounting main unit and sensor unit mount bracket

Mechanical

Weight	Camera Sensor Unit: 110g / 3.89oz Camera Main Unit: 243g / 8.56oz USB-C Cable: 80g / 2.82oz	**Body**	Aluminum, plastic
Dimensions[7]	Camera Sensor Unit: H: 47.4mm / 1.87in, W: 36.4mm / 1.43in, L: 40.2mm / 1.58in Camera Main Unit: H: 25.5mm / 1.00in, W: 89.0mm / 3.50in, L: 152.0mm / 5.98in		

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		

7. Mechanical dimensions listed here represent the sensor unit without the bracket attached.

CB52-E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	**IR Cut Filter**	Yes
Focal Length	2.8mm–8mm	**IR Range**	30m / 98ft
Aperture	F1.3–F2.4	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P–Iris	**Onboard Storage**	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 99° - 41° (95° - 39°) Vertical: 74° - 30° (74° - 30°) Diagonal: 125° - 50° (110° - 48°)	**CPU**	Ambarella CV25S88
Camera Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

Standard video settings

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

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	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+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	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	**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. 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.
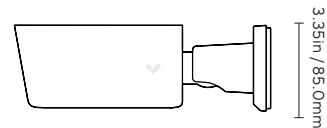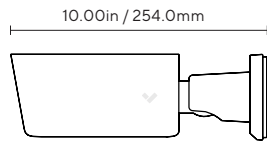
CB52-E
Tech Specs

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, KCC, BIS, NOM, UL/cUL/IEC 62368-1, 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: 1464g / 51.64oz Mount plate: 33g / 1.16oz	**Body**	Aluminum
Dimensions	Ø: 85.0mm / 3.35in L: 254.0mm / 10.00in		

Dimensions

10.00in / 254.0mm

3.35in / 85.0mm

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

CB62-E
Tech Specs

Camera features

Image Sensor	1 / 2.8" 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	2.8mm–8mm	**IR Range**	30m / 98ft
Aperture	F1.3–F2.4	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P–Iris	**Onboard Storage**	Capacity: From 512GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 107° - 43° (106° - 41°) Vertical: 62° - 24° (62° - 24°) Diagonal: 126° - 49° (119° - 48°)	**CPU**	Ambarella CV22S66
Camera Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	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+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.40-0.26A, 14.9W Without IR: 37-57V, 0.11-0.08A, 4.3W Extended temperature range: 37-57V, 0.64-0.39A, 23.7W	**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. 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.
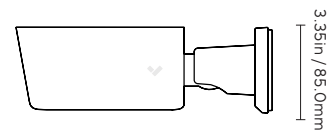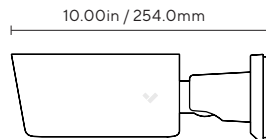
CB62-E
Tech Specs

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, KCC, BIS, NOM, NTRA, UL/cUL/IEC 62368-1, 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: 1464g / 51.64oz Mount plate: 33g / 1.16oz	**Body**	Aluminum
Dimensions	Ø: 85.0mm / 3.35in L: 254.0mm / 10.00in		

Dimensions

10.00in / 254.0mm

3.35in / 85.0mm

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

CB52-TE
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	IR Cut Filter	Yes
Focal Length	8mm–20mm	IR Range	50m / 164ft
Aperture	F1.5–F2.8	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P–Iris	Onboard Storage	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 38° - 16° (37° - 16°) Vertical: 28° - 12° (27° - 12°) Diagonal: 48°- 19° (44° - 19°)	CPU	Ambarella CV25S88
Camera Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

Standard video settings

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

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	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+	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	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	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. 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.
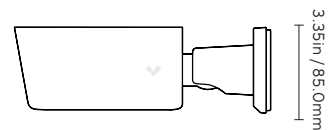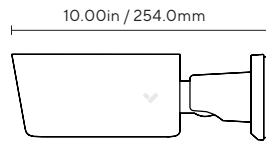
CB52-TE
Tech Specs

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

10.00in / 254.0mm

3.35in / 85.0mm

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

CB62-TE
Tech Specs

Camera features

Image Sensor	1 / 2.8" 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	8mm–20mm	**IR Range**	50m / 164ft
Aperture	F1.5–F2.8	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P–Iris	**Onboard Storage**	Capacity: From 512GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 42° - 17° (41° - 17°) Vertical: 23° - 9° (23° - 9°) Diagonal: 48° - 19° (46° - 19°)	**CPU**	Ambarella CV22S66
Camera Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	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+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 37-57V, 0.40-0.26A, 14.9W Without IR: 37-57V, 0.11-0.08A, 4.3W Extended temperature range: 37-57V, 0.64-0.39A, 23.7W	**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. 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.
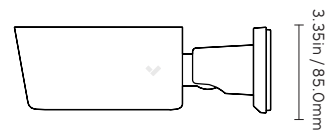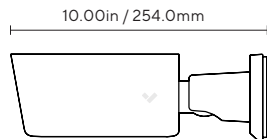
CB62-TE
Tech Specs

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, KCC, BIS, NOM, CB, UL/cUL/IEC 62368-1, 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

10.00in / 254.0mm

3.35in / 85.0mm

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

CF83-E
Tech Specs

Camera features

Image Sensor	1 / 1.6" Progressive CMOS	**Shutter Speed**	1 / 120 sec. to 1 / 32000 sec.
Sensor Resolution[1]	12.5MP (3536 x 3536); resolution (3520 x 3520)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Fixed	**IR Cut Filter**	Yes
Focal Length	1.7mm	**IR Range**	20m / 66ft
Aperture	F2.0	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View	Horizontal: 180° Vertical: 180° Diagonal: 180°	**CPU**	Ambarella CV72S66

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[2]	24fps	**WDR Technology**	120dB dynamic range, true WDR, dual exposure
Live Streaming Settings	High quality (HQ): Up to 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps		

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[3]	With IR: IEEE 802.3at Type 2 PoE+ Extended temperature range: IEEE 802.3at Type 2 PoE+	**Connectivity**	RJ-45 cable connector for network/ PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[3]	With IR: 43-57V, 0.46-0.34A, 19.5W Without IR: 43-57V, 0.22-0.17A, 9.5W Extended temperature range: 43-57V, 0.58-0.44A, 24.8W	**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. Extended temperature range includes operating temperatures below -8.5°C / 16.7°F and assumes IR will be enabled.
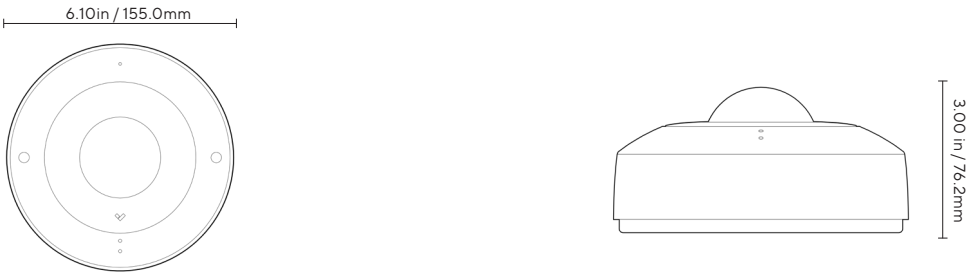
CF83-E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator, and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, CE, UKCA, VCCI, NOM, NTRA, KCC, UL/cUL/IEC 62368-1, IK10 impact rating, ICASA, IP66/67 weather rating	**Included Accessories**	Screw packs, mount plate with leveler, cable sealing rubber for 6.5-7.5mm, conduit adapter, T10 security driver

Mechanical

Weight	Camera: 1368g / 48.25oz Mount plate: 196g / 6.91oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 76.2mm / 3.00in with mount plate Ø: 155.0mm / 6.10in, H: 69.2mm / 2.72in without mount plate		

Dimensions

6.10in / 155.0mm

3.00 in / 76.2mm

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd 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, motion search, trajectory analysis[4], selective face blurring, AI-powered search	**Sharing and Privacy**	Live links, privacy regions, audit log
Vehicle Analytics	Vehicle search, attribute search, motion search, trajectory analysis[4], AI-powered search		

4. Trajectory analysis is supported in four-way split, panoramic, and ePTZ circle mode.

CY53-E
Tech Specs

Camera features

Image Sensor	2 x 1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	2 x 5MP (2592 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	**IR Cut Filter**	Yes
Focal Length	3.18 - 8.12mm	**IR Range**	30m / 98ft; non-adjustable
Aperture	F1.9 - F3.24	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	N/A	**Onboard Storage**	Capacity: From 512GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 103° - 40° (93° - 38°) Vertical: 75° - 30° (72° - 29°) Diagonal: 138° - 49° (114° - 47°)	**CPU**	Ambarella CV72S66
Sensor Movement	Tilt: +0° to 60° for each lens from upright Pan: +/- 90° for each lens Rotation: +/- 90° for each lens		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps / sensor	**WDR Technology**	True WDR, dual exposure
Live Streaming Settings (Per Head)	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps		

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

Power and network

Power Input[4]	IEEE 802.3at Type 2 PoE+	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37-57V, 0.60-0.45A, 25.5W Without IR: 37-57V, 0.37-0.24A, 13.5W Extended temperature range: 37-57V, 0.60-0.45A, 25.5W	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 4 (2 per camera head) Audio support: Yes

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.
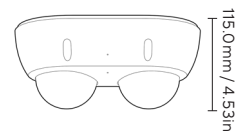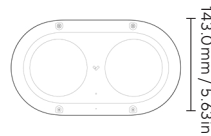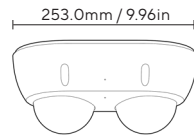
CY53-E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, CE, UKCA, RCM, NTRA, NOM, VCCI, KCC, UL/cUL/IEC 62368-1, IEC 62471, IP66/67 weather rating, IK10 impact rating, FY2019 NDAA compliant	**Included Accessories**	T10 security screwdriver, mount plate with leveler, 4x wall mount screws, 4x wall anchors, desiccant, conduit adapter, large cable gland

Mechanical

Weight	Camera: 2000g / 70.55 oz Mount plate: 400g / 14.11 oz	**Body**	Aluminum
Dimensions	L: 253.0mm / 9.96in W: 143.0mm / 5.63in H: 115.0mm / 4.53in with mount plate H: 110.0mm / 4.33in without mount plate		

Software capabilities

Alerts[5]	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[5]**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics[5]	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	**Sharing and Privacy[5]**	Live links, live face blur, privacy regions, audit log
Vehicle Analytics[5]	Vehicle search, attribute search, motion search, trajectory analysis, occupancy trends, AI-powered search		

5. All the listed features can be enabled independently for each camera head.

CY63-E
Tech Specs

Camera features

Image Sensor	2 x 1 / 2.8" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	2 x 4K (3856 x 2228)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; Motorized zoom	IR Cut Filter	Yes
Focal Length	3.18 - 8.12mm	IR Range	30m / 98ft; non-adjustable
Aperture	F1.9 - F3.24	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	N/A	Onboard Storage	Capacity: From 1TB to 4TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 115° - 44° (107 - 42°) Vertical: 61° - 25° (60° - 24°) Diagonal: 142° - 48° (123° - 48°)	CPU	Ambarella CV72S66
Sensor Movement	Tilt: +0° to 60° for each lens from upright Pan: +/- 90° for each lens Rotation: +/- 90° for each lens		

Standard video settings

Compression	H.265, H.264	Historical Video Settings	Adaptive quality[1]
Frame Rate[3]	24fps / sensor	WDR Technology	True WDR, dual exposure
Live Streaming Settings (Per Head)	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps		

Standard audio settings

Audio	Supported	Interface	Built-in microphone
Audio Capacity	One-way audio	Effective Range	5m / 16ft

Power and network

Power Input[4]	IEEE 802.3at Type 2 PoE+	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37-57V, 0.60-0.45A, 25.5W Without IR: 37-57V, 0.37-0.24A, 13.5W Extended temperature range: 37-57V, 0.60-0.45A, 25.5W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 4 (2 per camera head) Audio support: Yes

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.
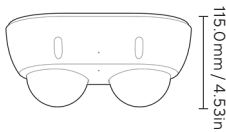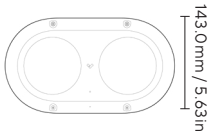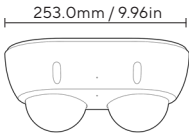
CY63-E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, CE, UKCA, RCM, VCCI, UL/cUL/IEC 62368-1, IEC 62471, IP66/67 weather rating, IK10 impact rating, FY2019 NDAA compliant	**Included Accessories**	T10 security screwdriver, mount plate with leveler, 4x wall mount screws, 4x wall anchors, desiccant, conduit adapter, large cable gland

Mechanical

Weight	Camera: 2000g / 70.55 oz Mount plate: 400g / 14.11 oz	**Body**	Aluminum
Dimensions	L: 253.0mm / 9.96in W: 143.0mm / 5.63in H: 115.0mm / 4.53in with mount plate H: 110.0mm / 4.33in without mount plate		

Software capabilities

Alerts[5]	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[5]**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics[5]	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	**Sharing and Privacy[5]**	Live links, live face blur, privacy regions, audit log
Vehicle Analytics[5]	Vehicle search, attribute search, motion search, trajectory analysis, occupancy trends, AI-powered search		

5. All the listed features can be enabled independently for each camera head.

CH52-E
Tech Specs

Camera features

Image Sensor	4 x 1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 5 sec. to 1 / 32,000 sec.
Sensor Resolution[1]	4 x 5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	**IR Cut Filter**	Yes
Focal Length	3.7 - 7.7mm	**IR Range**	30m / 98ft; non-adjustable
Aperture	F1.9 - F2.9	**Minimum Illumination**	0.009 lux @ F1.9 (color) 0 lux with IR Illuminators on
Iris	N/A	**Onboard Storage**	Capacity: From 1TB to 8TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 89° - 37° (82° - 35°) Vertical: 65° - 29° (60° - 26°) Diagonal: 99° - 46° (92° - 43°)	**CPU**	4 x Ambarella CV25S88
Sensor Movement	Tilt: +0°-105° for each lens from horizon Pan: +/- 90° for each lens Rotation: +/- 90° for each lens		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps / sensor	**WDR Technology**	120dB dynamic range, true WDR, dual exposure
Live Streaming Settings (Per Head)	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps		

Standard audio settings

Audio	Not supported

Power and network

Power Input[4]	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++	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
Power Consumption[4]	With IR: 43-57V, 0.65-0.49A, 27.7W Without IR: 43-57V, 0.46-0.34A, 19.5W Extended temperature range: 43-57V, 0.91-0.68A, 38.7W	**RTSP**	RTSP 1.0 RFC 2326 Max concurrent streams: 8 (2 per camera head) 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 -10°C / 14°F and assumes IR will be enabled.

CH52-E
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, KCC, NOM, CB, NTRA, ICASA, UL/cUL/IEC 62368-1, IK10 impact rating, IP66 weather rating, FY2019 NDAA compliant	**Included Accessories**	IR cover, mounting template, 3 mounting screws, 3 wall anchors, 2 desiccants, T10 security screwdriver, offset wrench

Mechanical

|			
Weight	Camera: 2,900g / 102.29oz Mount plate: 536g / 18.91oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 275.0mm / 10.82in, H: 118.0mm / 4.65in with mount plate Ø: 267.0mm / 10.51in, H: 114.0mm / 4.49in without mount plate		

Dimensions

275.0mm / 10.82in

118.0mm / 4.65in

Software capabilities

Alerts[5]	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd etection, line-crossing detection, loitering detection, AI-powered alerts	**Streaming and Storage[5]**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics[5]	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	**Sharing and Privacy[5]**	Live Links, live face blur, privacy regions, audit log
Vehicle Analytics[5]	Vehicle search, attribute search, motion search, trajectory analysis, occupancy trends, AI-powered search		

Coverage examples

270°

328°
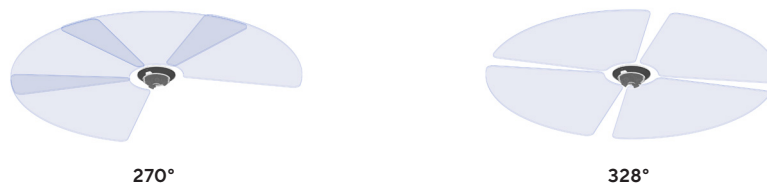
5. All the listed features can be enabled independently for each camera head.

CH53-E
Tech Specs

Camera features

Image Sensor	4 x 1 / 2.8" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	4 x 5MP (2592 x 1944)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	IR Cut Filter	Yes
Focal Length	3.18 - 8.12mm	IR Range	30m / 98ft; non-adjustable
Aperture	F1.9 - F3.24	Minimum Illumination	0.009 lux @ F1.9 (color) 0 lux with IR Illuminators on
Iris	N/A	Onboard Storage	Capacity: From 1TB to 8TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 105° - 39° (92° - 38°) Vertical: 76° - 29° (70° - 28°) Diagonal: 145° - 47° (116° - 44°)	CPU	2 x Ambarella CV72S66
Sensor Movement	Tilt: +25° to +90° from horizon Pan: +/- 180° Rotation: +/- 90° for each lens		

Standard video settings

Compression	H.265, H.264	Historical Video Settings	Adaptive quality[1]
Frame Rate[3]	24fps / sensor	WDR Technology	True WDR, dual exposure
Live Streaming Settings (Per Head)	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps		

Standard audio settings

Audio	Supported	Interface	Built-in microphone
Audio Capacity	One-way audio	Effective Range	5m / 16ft

Power and network

Power Input[4]	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, 0.82-0.69A, 35.0W Without IR: 37-57V, 0.51-0.33A, 19.0W Extended temperature range: 43-57V, 1.20-0.90A, 51.0W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 8 (2 per camera head) Audio support: Yes

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.

CH53-E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, VCCI, UL/cUL 62368-1, IP66/67 weather rating, IK10 impact rating, FY2019 NDAA compliant	**Included Accessories**	T10 security screwdriver, mount plate, 4x wall mount screws, 4x wall anchors, 2x desiccants, conduit adapter, large cable gland

Mechanical

Weight	Camera: 3425g / 120.81oz Mount plate: 528g / 18.62oz	**Body**	Aluminum
Dimensions	D: 262.0mm / 10.32in H: 117.0mm / 4.61in with mount plate H: 115.0mm / 4.53in without mount plate		

Dimensions

262.0mm / 10.32in

117.0mm / 4.61in

Software capabilities

Alerts[5]	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[5]**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics[5]	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	**Sharing and Privacy[5]**	Live links, live face blur, privacy regions, audit log
Vehicle Analytics[5]	Vehicle search, attribute search, motion search, trajectory analysis, occupancy trends, AI-powered search		

5. All the listed features can be enabled independently for each camera head.

CH63-E
Tech Specs

Camera features

Image Sensor	4 x 1 / 2.8" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	4 x 4K (3856 x 2228)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	IR Cut Filter	Yes
Focal Length	3.18 - 8.12mm	IR Range	30m / 98ft; non-adjustable
Aperture	F1.9 - F3.24	Minimum Illumination	0.009 lux @ F1.9 (color) 0 lux with IR Illuminators on
Iris	N/A	Onboard Storage	Capacity: From 1TB to 8TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 112° - 42° (104° - 40°) Vertical: 56° - 23° (56° - 23°) Diagonal: 140° - 47° (119° - 45°)	CPU	2 x Ambarella CV72S66
Sensor Movement	Tilt: +25° to +90° from horizon Pan: +/- 180° Rotation: +/- 90° for each lens		

Standard video settings

Compression	H.265, H.264	Historical Video Settings	Adaptive quality[1]
Frame Rate[3]	24fps / sensor	WDR Technology	True WDR, dual exposure
Live Streaming Settings (Per Head)	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps		

Standard audio settings

Audio	Supported	Interface	Built-in microphone
Audio Capacity	One-way audio	Effective Range	5m / 16ft

Power and network

Power Input[4]	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, 0.82-0.69A, 35.0W Without IR: 37-57V, 0.51-0.33A, 19.0W Extended temperature range: 43-57V, 1.20-0.90A, 51.0W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 8 (2 per camera head) Audio support: Yes

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.

CH63-E
Tech Specs

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, VCCI, UL/cUL 62368-1, IP66/67 weather rating, IK10 impact rating, FY2019 NDAA compliant	**Included Accessories**	T10 security screwdriver, mount plate, 4x wall mount screws, 4x wall anchors, 2x desiccants, conduit adapter, large cable gland

Mechanical

Weight	Camera: 3425g / 120.81oz Mount plate: 528g / 18.62oz	**Body**	Aluminum
Dimensions	D: 262.0mm / 10.32in H: 117.0mm / 4.61in with mount plate H: 115.0mm / 4.53in without mount		

Dimensions

262.0mm / 10.32in

117.0mm / 4.61in

Software capabilities

Alerts[5]	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[5]**	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People Analytics[5]	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	**Sharing and Privacy[5]**	Live links, live face blur, privacy regions, audit log
Vehicle Analytics[5]	Vehicle search, attribute search, motion search, trajectory analysis, occupancy trends, AI-powered search		

5. All the listed features can be enabled independently for each camera head.

CP52-E
Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	5MP (2688 x 1944)	**Day/Night**	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	**IR Cut Filter**	Yes
Focal Length	5.2mm – 148.15mm	**IR Range**	100m / 328ft
Aperture	F1.3 – F4.8	**Minimum Illumination**	0.8 lux @ F1.4 (Color) 0 lux @ F1.4 with IR Illuminators on
Iris	DC Iris	**Onboard Storage**	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View (after LDC)	Horizontal: 55°–2° Vertical: 42°–1.5° Diagonal: 66°–2.5°	**CPU**	Ambarella CV22S66
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: 2,000 Kbps (SQ), 4,500 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 802.3at Type 2 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, 1.00-0.74A, 42.3W Without IR: 43-57V, 0.55-0.41A, 23.3W Extended temperature range: 43-57V, 1.04-0.77A, 44.0W	**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. Extended temperature range includes operating temperatures below -8.5°C / 16.7°F and assumes IR will be enabled.
4. 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".

CP52-E
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, ICES, CE, UKCA, RCM, VCCI, KCC, NOM, ICASA, UL/cUL/IEC 62368-1, CB, IK10 impact rating, IP66 weather rating, FY2019 NDAA compliant	**Included Accessories**	Rubber cap, pendant cap, T30 security L-wrench

Mechanical

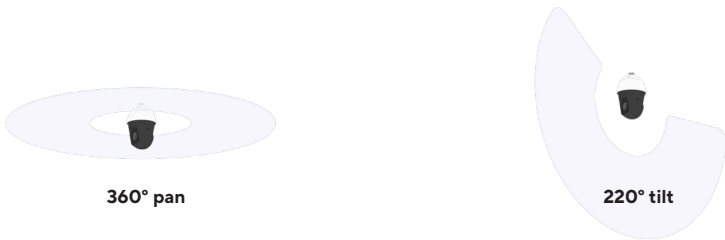|			
Weight	Camera: 7.07kg / 15.6lbs Pendant cap: 0.41kg / 0.9lbs	**Body**	Aluminum, plastic
Dimensions	Ø: 256.0mm / 10.08in, H: 406.0mm / 15.98in with pendant cap Ø: 256.0mm / 10.08in, H: 336.0mm / 13.23in without pendant cap		

Dimensions

256.0mm / 10.08in

406.0mm / 15.98in

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, AI-powered alerts	**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, AI-powered search	**Sharing and Privacy**	Live Links, audit log
Vehicle Analytics	Vehicle search, attribute search, motion search, trajectory analysis, AI-powered search	**Controllers[5]**	Mouse, keyboard, Xbox Wireless Controller, joystick

Coverage examples

360° pan

220° tilt

5. For details on the supported controllers for the CP63-E, refer to the article here.

CP63-E
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 -8.5°C / 16.7°F and assumes IR will be enabled.

CP63-E
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, RCM, VCCI, NOM, IK10 impact rating, IP66 weather rating	**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, AI-powered alerts	**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, AI-powered search	**Sharing and Privacy**	Live links, audit log
Vehicle Analytics	Vehicle search, attribute search, motion search, trajectory analysis, AI-powered search	**Controllers[5]**	Mouse, keyboard, Xbox Wireless Controller, joystick

Coverage examples

360° pan

220° tilt

5. For details on the supported controllers for the CP63-E, refer to the article here.

CR63-E
Tech Specs

Camera features

Image Sensor	1 / 1.2" 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 (2.25x)	**IR Cut Filter**	Yes
Focal Length	5.9 - 13.3mm	**IR Range**	20m / 66ft; non-adjustable
Aperture	F1.5 - F2.9	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	**Onboard Storage**	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View (after LDC[2])	Horizontal: 109° - 49° (102° - 47°) Vertical: 58° - 28° (58° - 27°) Diagonal: 113° - 55° (107° - 53°)	**CPU**	Ambarella CV75S88
Sensor Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[3]	24fps	**Live Streaming Settings**	High quality (HQ): Up to 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps

Standard audio settings

Audio	Supported	**Interface**	Built-in microphone
Audio Capacity	One-way audio	**Effective Range**	5m / 16ft

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.

CR63-E
Tech Specs

Power and network

Power Input	MC4 Pigtail for Solar Panel RJ45 for Passive POE DC Power Adapter	Connectivity	RJ-45 cable connector for passive PoE connection
Power Consumption	54VDC, 1.2A, 65W Barrel Jack (6.5/3mm OD/ID) 48-57V, 1.35-1.14A, 65W Passive POE 16-40V 6-2.4A, 96W, DC Solar input	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 2 Audio support: Yes

Cellular

Connectivity	LTE cellular CAT 6	MIMO	2x2 DL MIMO
SIM	2 SIM slots (Nano 4FF) Dual SIM/auto SIM failover	Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28. B29, B30, B38, B39, B40, B41, B42, B43, B48 (CBRS), B66, B71

General

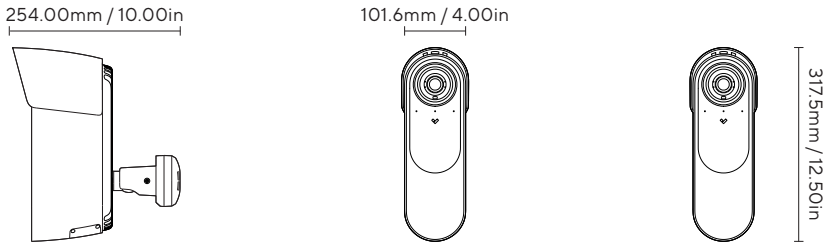| Operating Temperature	-40°C to 50°C / -40°F to 122°F	LED Indicator	1 status LED, 2 SIM indicator LEDs, 4 signal strength LEDs
Humidity	0 to 90%	Warranty	5 Years
Certifications	FCC, ICES, IP66/67 weather rating, IK10 impact rating	Included Accessories	Mount plate, pole mount, T10 Torx security screwdriver, T25 Torx security allen key, 4x M4 x 25mm PH2, 4x wall anchors, MC4 pigtail, PoE pigtail, barrel jack pigtail, 2x small pole straps, 2x large pole straps, 1x Verkada SIM card

CR63-E
Tech Specs

Mechanical

Weight	3700g / 130.51oz	Body	Plastic casing with aluminum base and ball joint
Dimensions	L: 254.0mm / 10.00in W: 101.6mm / 4.00in H: 317.5mm / 12.50in		

Dimensions

254.00mm / 10.00in

101.6mm / 4.00in

317.5mm / 12.50in

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		