



Immersive Coverage in 360° with digital pan-tilt-zoom

Overview

Verkada's Fisheye Series delivers dynamic viewing experiences by leveraging advanced onboard processing and a wide-angle 12MP image sensor. Users can choose between three viewing modes: panoramic, four-way split and pan-tilt-zoom.

The CF81-E features a rugged, vandal-resistant design, simple installation, and an Ambarella chipset to unlock edge-based analytics for advanced people and vehicle insights.

With these insights, users can quickly filter people detected based on a variety of attributes, including clothing color, gender appearance, and facial matches as well as vehicles by type and color. The footage is all processed directly on the camera, meaning results are nearly instant and always accessible.

All Verkada cameras include standard features like end-to-end encryption, onboard storage, and advanced motion-based insights so organizations are able to quickly scale their coverage and increase situational awareness across any number of locations.

Industry-Leading 10-Year Product Warranty

All Verkada hardware purchases are backed by our 10-year limited warranty.
For more information, visit verkada.com/support/end-user-agreement.

Key Features

- 12MP Image Sensor
- Up to 90 days of retention in standard quality
- IK10 and IP67 Rated
- Ambarella Chipset
- NDAA Compliant
- Three View Modes:
 - Panoramic
 - Four-Way Split
 - Pan-Tilt-Zoom
- People Analytics
- Vehicle Analytics
- Onboard Microphone
- 512GB – 2TB of onboard storage



Verkada's Hybrid Cloud Architecture



No NVR or DVRs

Industrial-grade solid state storage saves up to 365 days of continuous video*

Easy to Scale

Bandwidth friendly and supports thousands of cameras across unlimited locations

Centralized Management

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

The reliability of on-camera solid-state storage, with the accessibility of the cloud

Simple to Install

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

Easy to Use

- Centralized management for seamless access vertically anywhere
- No training required to access footage and features
- Find, download, and share footage from any device

Advantages of Cloud-Managed Solution

- Secure remote access on any device nearly anywhere
- Real-time alerts if cameras fall offline
- SAML-based integration with single-sign on (SSO) solutions
- Continuous updates with new AI features
- Instantly share live footage via SMS and email
- Live, proactive alerting based on unusual activity
- People counting and heatmaps to visualize your space

Ready For Scale

- Bandwidth-friendly, using 20–50 Kbps per camera in steady mode
- Scale to thousands of cameras across all locations
- No added equipment needed to support additional cameras

No Hidden Costs

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

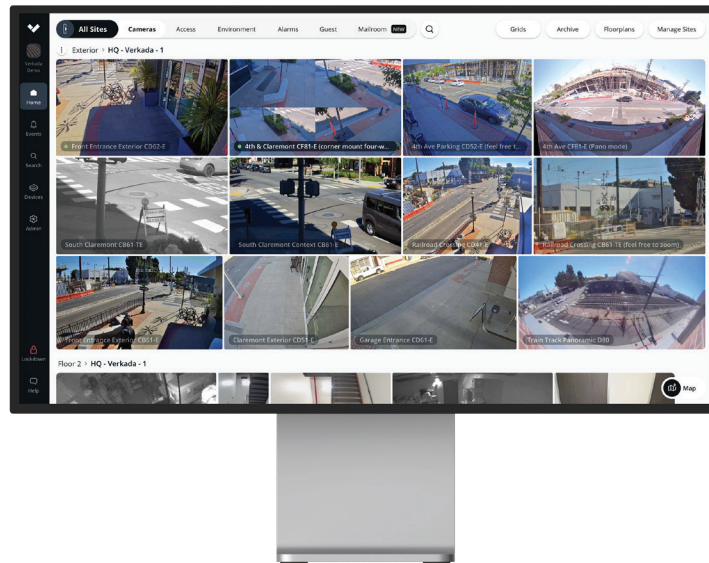
*All our cameras record in "adaptive quality," capturing both standard and high quality streams. Standard quality video is stored up to the amount of retention specified by the customer. The amount of high quality video stored on the camera will depend on the amount of motion detected by the camera over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





Command Platform Overview

All-in-one cloud-based management software for Verkada security cameras



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

User Permissions & Account Security

- SAML/OAuth support for single sign-on
- 2-factor authentication options
- User permissions can be controlled at camera, site and organization levels

Remote Access

- Access from nearly any device (desktops, smartphones, tablets)
- Native apps for iOS, Android, and Verkada's VX52 Viewing Station

Archiving and Sharing

- Command licenses include unlimited cloud archiving
- Easily export any footage in a shareable MP4 format
- Create and share Live Links with first responders

Powerful Edge-Based Analytics

- Search footage by date, time, and motion
- Access People and Vehicle Analytics to simplify investigations

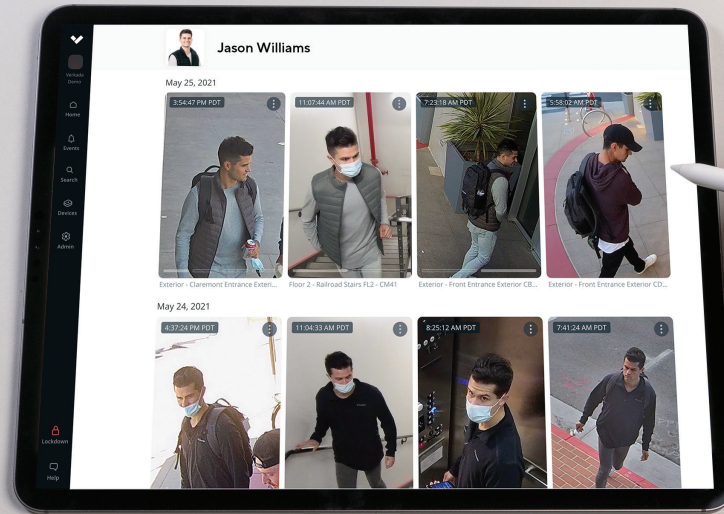
Key Features

- View and manage video from any device (desktop, smartphone, tablet)
- No 3rd party plugins, thick clients, or downloads required
- Encryption in transit (AES 128) and at rest (AES 256)
- No port-forwarding or VPNs
- Detailed user access and audit logs
- Live Link sharing
- Unlimited cloud archiving with footage exports in MP4 format
- Alerts for offline cameras, tampering, and motion detection
- 30-days of cloud backup included



Verkada's People Analytics

Simplify and speed up investigations
with intelligent people and face detection



Available across Verkada's Fisheye Series, People Analytics combines intelligent edge-based video processing with computer vision in the cloud to give users high-quality images of all individuals identified in the scene. With Verkada's centralized management platform, customers can filter people by various attributes, including date, time, appearance, clothing color, backpack detection, and facial matches.

Bring Intelligence to Investigations

Face Search

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

Person History

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

Occupancy Trends

- Estimate how many people cross a customizable digital line on a video feed
- Monitor usage of a space to optimize business operations

Attribute Filters

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

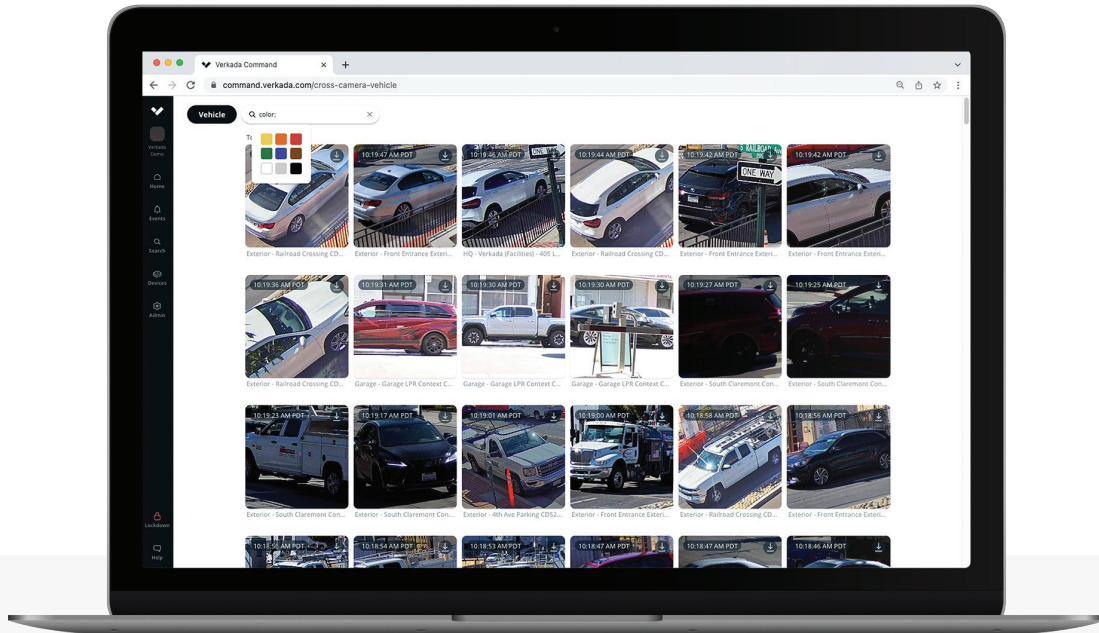
Person of Interest Notifications

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



Verkada's Vehicle Analytics

Quickly search and filter
to find vehicles of interest



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

Find and Filter Vehicles with Ease

Vehicle History

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

Investigate Anywhere

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

Attribute Filters

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

Cross-Camera Tracking

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

License Plate Recognition

- Leverage a dual-camera system to provide LPR coverage, monitor a live LPR feed, and search by plate number
- Receive License Plate of Interest Alerts via SMS or email with an image or link to review the associated footage



Fisheye Series
Tech Specs



CF81-E

Sensor Resolution*	12MP (4056x3040)
Lens Type	Fixed Zoom
Image Sensor	1/2.3" Progressive CMOS
Focal Length	f=1.18mm
Iris	Fixed
Audio	Yes
Aperture	F2.18
Four-Way Split	AoV: 180°
Pan/Tilt/Zoom	AoV: 180°
Field of View (after LDC**)	Horizontal FoV: 175° Vertical FoV: 78°
IR Range	20m / 65ft in low light
Onboard Storage	From 512GB to 2TB
Resistance Rating	FCC, CE - EN55035, IK10, IP67
Dimensions	With Mount Plate: Ø: 155mm x 71.62mm / 6.1in x 2.82in Without Mount Plate: Ø: 155mm x 64.42mm / 6.1in x 2.54in
RTSP	RTSP 1.0 RFC 2326 Max Concurrent Streams: 2 Audio Support: Yes

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

**Lens Distortion Correction (LDC) crops the sensor field of view to deliver a rectified, undistorted output image.

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Professional Video Monitoring
for Verkada Cameras

Meet Your Virtual Guard

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

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



Assess the Situation

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

Make Contact

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

Take Action

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

Alarm License Pricing

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

Alarm License Pricing

Product Name	Description	Cost (MSRP) USD
LIC-BA-1Y	1-Year Alarm License	\$1,499
LIC-BA-3Y	3-Year Alarm License	\$3,999
LIC-BA-5Y	5-Year Alarm License	\$5,999
LIC-BA-10Y	10-Year Alarm License	\$11,999



Ordering Information

Fisheye Series Pricing

Product Name	MP*	WDR	Lens	IR	Onboard Storage	Maximum SQ Onboard Retention*	People/Vehicle Analytics	Cost (MSRP) ^{USD}
CF81-30E-HW	12MP	✓	Fixed	20m	512GB	30 Days	✓	\$1,999
CF81-60E-HW	12MP	✓	Fixed	20m	1TB	60 Days	✓	\$2,699
CF81-90E-HW	12MP	✓	Fixed	20m	2TB	90 Days	✓	\$3,399

Video Security Cloud License Pricing

Product Name	Description	Cost (MSRP) ^{USD}
LIC-1Y	1-Year Camera License	\$199
LIC-3Y	3-Year Camera License	\$549
LIC-5Y	5-Year Camera License	\$899
LIC-10Y	10-Year Camera License	\$1,799

Accessories Pricing

ACC-MNT-2	Mounting arm kit for pendant cap (ACC-MNT-8)	\$89
ACC-MNT-3	Wall mounted L-shaped bracket kit	\$129
ACC-MNT-7	Angle mount kit	\$149
ACC-MNT-8	Pendant cap mount kit	\$69
ACC-MNT-9	Verkada Pole Mount, 2nd Generation	\$209
INJ-POE-PLUS	Verkada PoE Plus (802.3at) Injector, GigE	\$129

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Ordering Information

Viewing Station Pricing

Product Name	Description	Cost (MSRP) USD
VX52-HW	VX52 Viewing Station	\$499
LIC-VX-1Y	1-Year Viewing Station License	\$499
LIC-VX-3Y	3-Year Viewing Station License	\$1,299
LIC-VX-5Y	5-Year Viewing Station License	\$1,999
LIC-VX-10Y	10-Year Viewing Station License	\$3,999

Alarm License Pricing

LIC-BA-1Y	1-Year Alarm License	\$1,499
LIC-BA-3Y	3-Year Alarm License	\$3,999
LIC-BA-5Y	5-Year Alarm License	\$5,999
LIC-BA-10Y	10-Year Alarm License	\$11,999