



## Verkada Immersive Coverage in 360 with digital pan-tilt-zoom User Guide

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## Overview

Verkada's Fisheye Series delivers dynamic viewing experiences by leveraging advanced on board processing and a wide-angle 12MP image sensor. Users can choose between three viewing modes: 180° 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 traits, 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, on board 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

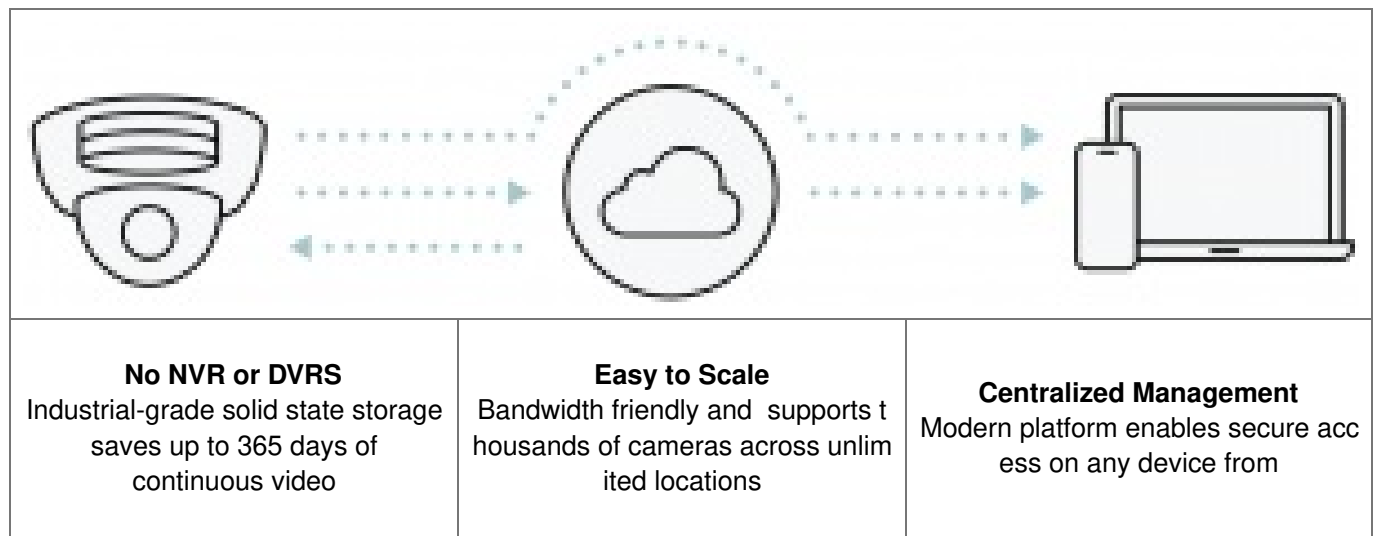
All Verkada hardware purchases are backed by our 10-year limited warranty. For more information, visit [verkada.com/support/terms-of-sale](https://verkada.com/support/terms-of-sale).

## Key Features

- 12MP Image Sensor
- 30-90 Days Built-in Storage
- K10 and I P67 Rated
- Ambarella Chipset

- NDAA Compliant
- Three View Modes:
  - 180° Panoramic
  - Four-Way S
  - Pan-Tilt-Zoom
- People Analytics
- Vehicle Analytics
- Onboard Microphone

## Verkada's Hybrid Cloud Architecture



## 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 on line and configure in minutes
- No added software or complexities like port forwarding

### Easy to Use

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

### Advantages of Cloud-Managed Solution

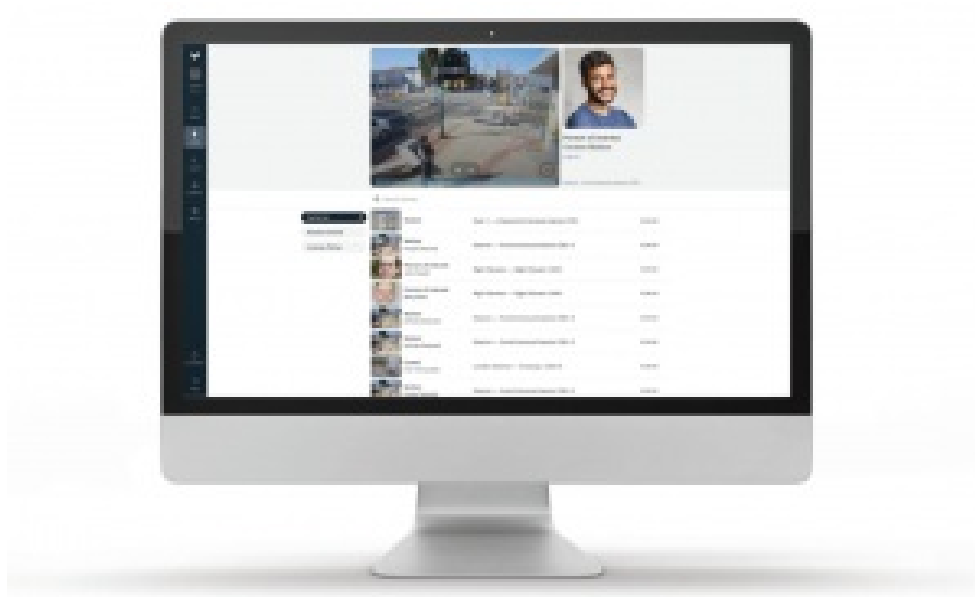
- Secure remote access on any device anywhere
- Real-time alerts if cameras fall offline
- SAM L-based integration with single-sign on (SSO) solutions
- Continuous updates with new AI features
- Instantly share live footage via SMS and email



- Live, proactive alerting based on unusual activity
- People counting and heatmaps to visualize your space

## Command Platform Overview

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



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

### Remote Access

- Access from any device (desktops, smartphones, tablets)
- Native apps for iOS and Android, Apple TV, and Verkada's VX51 Viewing Station

### User Permissions & Account Security

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

### Powerful Edge-Based Analytics

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

### Archiving and Sharing

- Command licenses include unlimited cloud archiving
- Easily export any footage in a shareable M P4 format

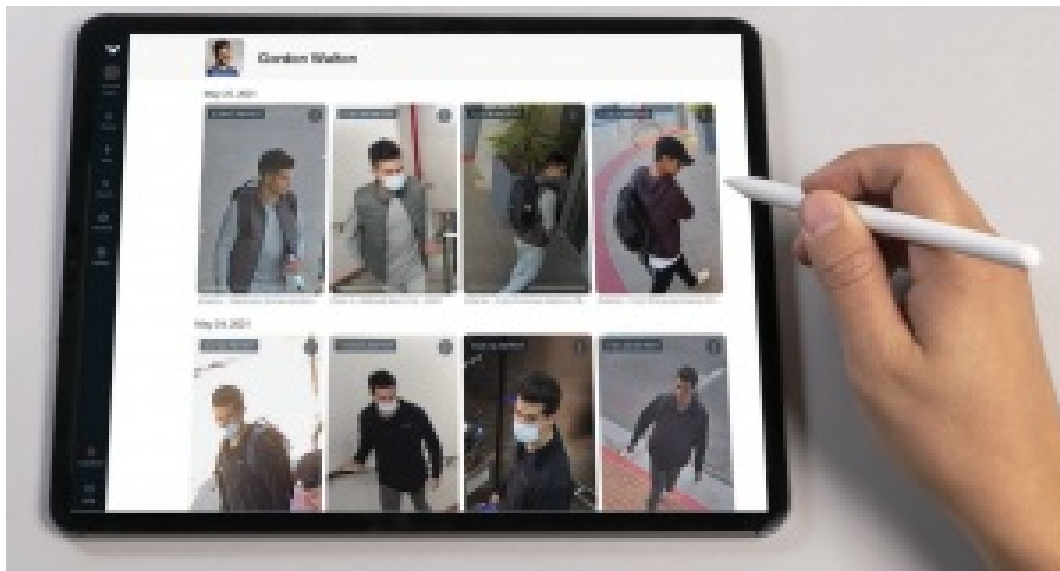
- Create and share Live Links with first responders

### **Key Features**

- View and manage video from any device (desktop, smartphone, tablet)
- No 3rd party plug ins, thick clients, or downloads required
- Encryption in transit and at rest
- No port-forwarding or VPNs
- Detailed user access and audit logs
- Live Link sharing
- Unlimited cloud archiving with footage exports in M P4 format
- Alerts for offline cameras, tampering, and motion detection

### **Verkada's People Analytics**

Simplify and speed up investigations with intelligent people and face detection



Available across Verkada's Mini 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.

### Attribute Filters

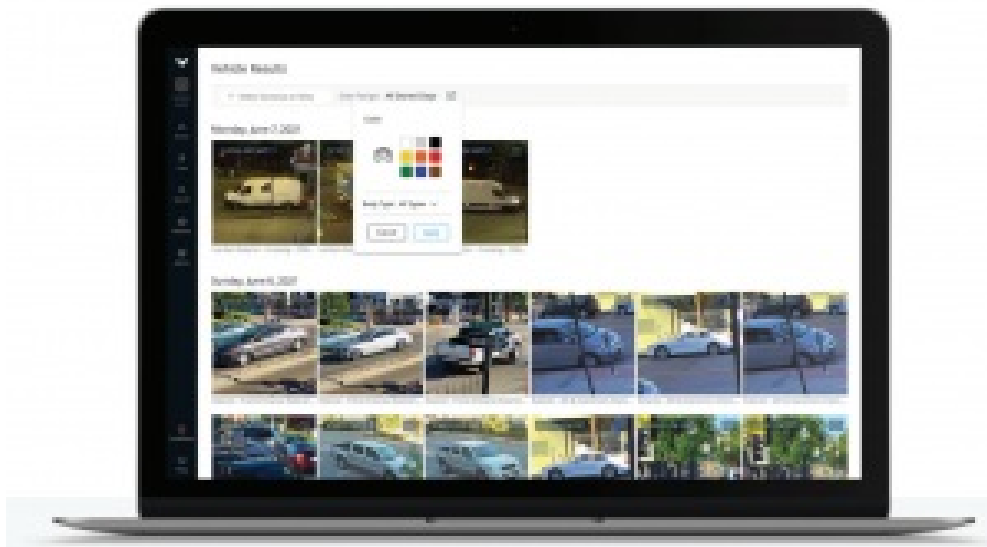
- Filter based on a range of attributes, including clothing color, gender appearance, and facial matches.

### 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

### 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

### **Attribute Filters**

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

### **Fisheye Series**

### **Tech Specs**

	 <p><b>CF81-E</b></p>
<b>Image Resolution</b>	12MP (4056×3040)
<b>Lens Type</b>	Fixed Zoom
<b>Image Sensor</b>	1/2.3" Progressive CMOS
<b>Focal length</b>	f=1.18mm
<b>Iris</b>	Fixed
<b>Aperture</b>	F2.18
<b>Field of View</b>	Horizontal: 180° Vertical: 180° Diagonal: 180°
<b>IR Range</b>	20m / 65ft in low light
<b>Resistance Rating</b>	FCC, CE – EN55035, IK10, IP67
<b>Dimensions</b>	With Mount Plate – 0: 155mm x 71.62mm / 6.1in x 2.82in Without Mount Plate – 0: 155mm x 64.42mm / 6.1in x 2.54in

## Professional Monitoring Overview<sup>1</sup>

Incidents are unpredictable. Ensure your sites are protected 24/7 with our professional monitoring service. 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

- With built-in video verification, agents can assess possible threats and screen out false alarms.



- If video verification is enabled, users will not be contacted unless incidents are confirmed as real alarms by an agent.

### Make Contact

- When an alarm is raised, agents immediately call and send SMS messages to the predetermined contact list.
- If an agent is unable to reach any contacts, they can contact local emergency services to respond.

### Take Action

- Once a threat is confirmed, 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

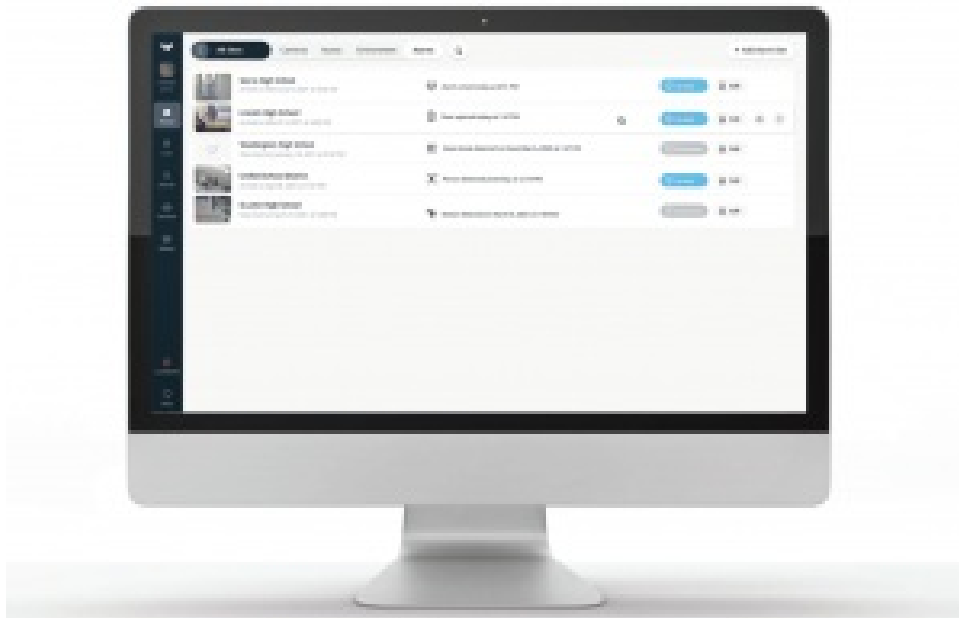
The Alarm License includes access to the cloud-managed Verkada Alarms platform and integrated professional monitoring. One Alarm License is required for each unique site address, with up to 32 monitored devices covered per license. Any Verkada cameras, doors, environmental sensors, and panel inputs that have been configured as alarm triggers will count as devices towards the 32 device limit.

An Alarm License is required for the BP41 Alarm Panel and BC51 Alarm Console.

<sup>1</sup> Monitoring is provided by Verkada's independent monitoring center partners.

## Alarms Platform Overview

Seamlessly manage sites, configure alarm triggers, and customize alarm responses.



Alarms is powered by Verkada's Command Platform. This cloud-based management solution delivers secure remote access with an intuitive interface for ease-of-use

### **Site Management**

- See overview of current status and recent events from all sites.  
Schedule arming/disarming and configure keycodes for onsite management.
- Instantly view incidents and play back event footage with integrated Verkada video surveillance.
- Control access to your Alarm sites with role-based permissions.

### **Device Management**

- Configure wired sensors and outputs on your Alarm Panel from Command with just a few clicks.
- Create alarm triggers based on events from any Verkada device.
- Manage fleet of devices from single dashboard.

### **Professional Monitoring Configuration**

- Enable video verification of alarms by trained security professionals.
- Enable dispatch of emergency services.
- Configure "an ordered list" of contacts for monitoring agents to call and text when an alarm is raised.

### **Alarm Console Talk-Down**

- From Command, initiate two-way video calls down to Alarm Consoles at any of your sites, from anywhere in the world.
- Make calls to Alarm Console to address staff, guests, or potential intruders.

### **Ordering Information**

#### **Fisheye Series Pricing**

Product Name	MP	WDR	Lens	Grade	IR	Onboard Retention	People/ Vehicle Analytics	Cost (MSRP)
CF81-30E-HW	12MP	✓	Fixed	Outdoor	20m	30 Days	✓	\$1,999
CF81-60E-HW	12MP	✓	Fixed	Outdoor	20m	60 Days	✓	\$2,699
CF81-90E-HW	12MP	✓	Fixed	Outdoor	20m	90 Days	✓	\$3,399

#### Cloud License Pricing

Product Name	Description	Cost (MSRP)
LIC-1Y	1 Year Camera License	\$199
LIC-3Y	3 Year Camera License	\$499
LIC-5Y	5 Year Camera License	\$799
LIC-10Y	10 Year Camera License	\$1,599

#### 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-4	Pole mount adapter kit for ACC-MNT-2 and 3	\$199
ACC-MNT-7	Angle mount kit	\$149
ACC-MNT-8	Pendant cap mount kit	\$69
I NJ-POE-PLUS	Verkada PoE Plus (802.3at) Injector, GigE	\$129

#### Viewing Station Pricing

Product Name	Description	Cost (MSRP)
\$1,999	Viewing station	\$1,999
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

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Documents / Resources

	<p><a href="#">Verkada Immersive Coverage in 360 with digital pan-tilt-zoom</a> [pdf] User Guide</p> <p>Immersive Coverage in 360 with digital pan-tilt-zoom</p>
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