



Fisheye Series

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: 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, 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/terms-of-sale.

Key Features

- 12MP Image Sensor
- 30-90 Days Built-in Storage
- IK10 and IP67 Rated
- Ambarella Chipset
- NDAA Compliant
- Three View Modes:
 - 180° Panoramic
 - Four-Way Split
 - Pan-Tilt-Zoom
- People Analytics
- Vehicle Analytics
- Onboard Microphone



Verkada's Hybrid Cloud Architecture



No NVRs or DVRs

Industrial-grade solid state storage saves up to 120 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 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
- 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 5-20 Kbps per camera
- Scale to thousands of cameras across all locations
- No added equipment needed to support additional cameras

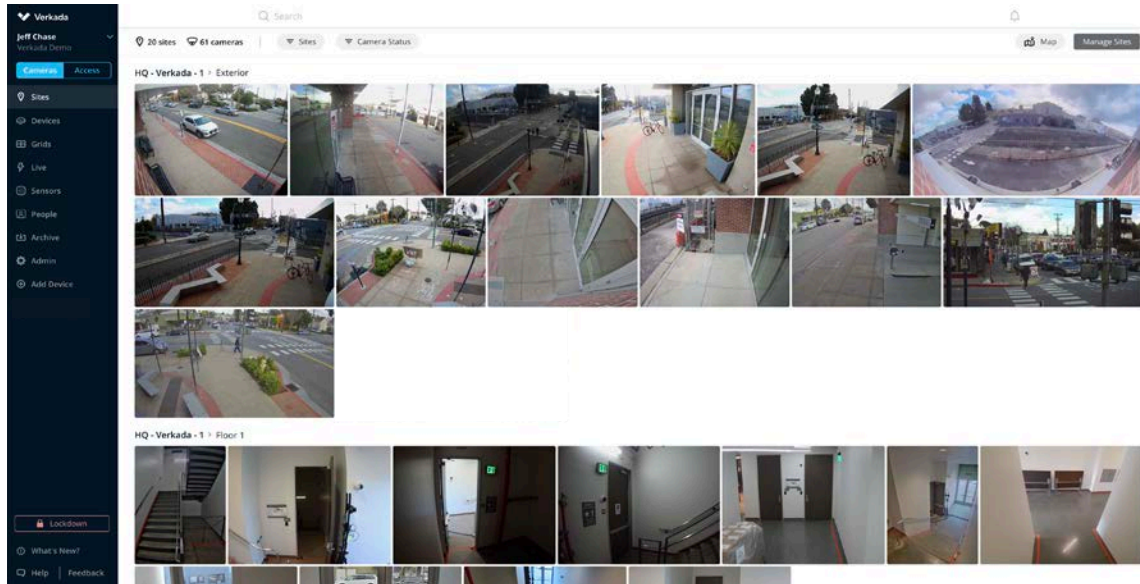
No Hidden Costs

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



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 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

- SAML/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

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

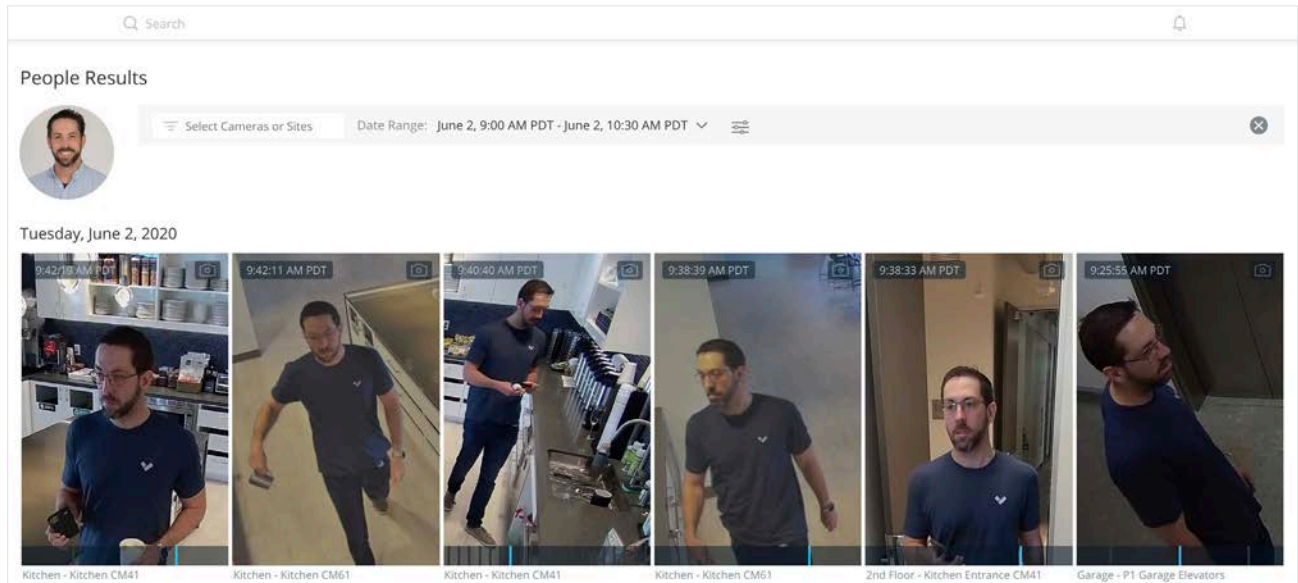
Key Features

- View and manage video from any device (desktop, smartphone, tablet)
- No 3rd party plugins, 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 MP4 format
- Alerts for offline cameras, tampering, and motion detection



People Analytics

Simplify and speed up investigations with intelligent people and face detection



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.

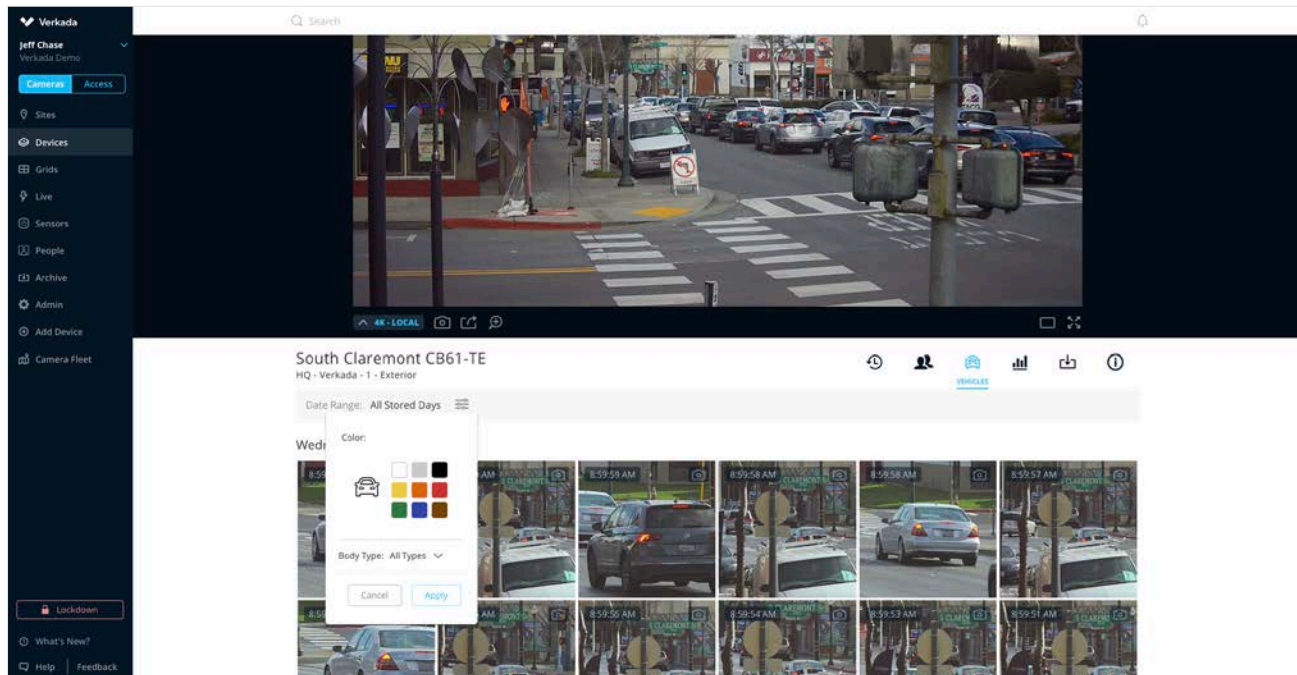
Person of Interest Notifications

- 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



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

Vehicle Filters

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



Fisheye Series



CF81-E

Image Resolution

12MP (4056x3040)

Lens Type

Fixed

Image Sensor

1/2.3" Progressive CMOS

Focal Length

f=1.18mm

Iris

Fixed

Aperture

F=2.18

Field of View

Horizontal: 180°
Vertical 180°
Diagonal 180°

IR Range

20 m / 65 ft

Certifications

FCC, CE - EN55035, IK10, IP67

Dimensions: 155 mm / 6.10in

Height w/ Mount Plate

Ø: 155mm x 71.62mm / 6.1in x 2.82in

Height w/o Mount Plate

Ø: 155mm x 64.42mm / 6.1in x 2.54in

Operating Specs

802.3af PoE

Power: 12.84W

Temperature: -20°C - 50°C (-4°F - 122°F)

Humidity: 90%

802.3at PoE+

Power: 22.5W

Temperature: -40°C - 50°C (-40°F - 122°F)

Humidity: 90%

Connectivity

1Gb RJ-45 cable connector for Network/PoE connection