

# CD42-E-F FIPS Outdoor Dome Camera



## Overview

The CD42-E-F has a durable, vandal-resistant design, advanced computer vision features, and incorporates encryption that meets the FIPS 140-2 and FedRAMP Moderate Ready standards that help provide robust, government-grade coverage.

This hybrid cloud camera is easy to install and requires no additional setup, downloads, or configuration. It has standard features like onboard storage and advanced motion-based insights, allowing organizations to quickly scale their security coverage and increase situational awareness across multiple locations. This camera also has powerful edge processing capabilities that deliver advanced computer vision features, including Verkada's People and Vehicle Analytics.

The CD42-E-F is compatible with the standard Verkada Command platform, as well as Command hosted in AWS GovCloud (exclusively available to US government organizations<sup>1</sup>).

## Key features

### Government-grade security

- Meets the FIPS 140-2 standard, as validated by NIST
- Designated FedRAMP Moderate Ready by the Federal Risk and Authorization Management Program (FedRAMP®)
- TAA and FY2019 NDAA compliant

### Enterprise-grade performance

- High-resolution sensors
- Dedicated system-on-a-chip for an enhanced streaming experience
- Advanced edge processing for motion, People and Vehicle Analytics

### Storage and processing

- 256GB–2TB of onboard storage
- Up to 365 days of retention in standard quality
- Low-bandwidth impact, only using 20–50 kbps per camera at rest

<sup>1</sup> Federal, state, local, or tribal organizations, research institutions, federal contractors, and government contractors.



## CD42-E-F Tech Specs



CD42-E-F

### Camera features

<b>Image Sensor</b>	1/2.8" Progressive CMOS	<b>Shutter Speed</b>	1/30 sec. to 1/10,000 sec.
<b>Sensor Resolution<sup>1</sup></b>	5MP (2688 x 1944)	<b>Day/Night</b>	IR-cut filter for day and night function
<b>Lens Type</b>	Fixed	<b>IR Cut Filter</b>	Yes
<b>Focal Length</b>	2.8mm	<b>IR Range</b>	15m / 49ft
<b>Aperture</b>	F1.6	<b>Minimum Illumination</b>	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
<b>Iris</b>	Fixed	<b>Onboard Storage</b>	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
<b>Field of View (after LDC<sup>2</sup>)</b>	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	<b>CPU</b>	Ambarella CV25S88
<b>Sensor Movement</b>	Tilt: 60° Pan: 355° Rotation: 180°		

### Standard video settings

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

### Standard audio settings

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

### Power and network

<b>Power Input<sup>4</sup></b>	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+	<b>Connectivity</b>	RJ-45 cable connector for network/PoE connection; 10/100 Mbps
<b>Power Consumption<sup>4</sup></b>	With IR: 37-57V, 0.23-0.15A, 8.59W Without IR: 37-57V, 0.11-0.07A, 4.25W Extended temperature range: 37-57V, 0.46-0.3A, 16.94W	<b>RTSP</b>	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.



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CD42-E-F

## General

<b>Operating Temperature</b>	-40°C to 50°C / -40°F to 122°F	<b>LED Indicator</b>	System power and status indicator
<b>Humidity</b>	0 to 90%	<b>Warranty</b>	10 Years
<b>Certifications</b>	FCC, ICES, CE, UL, CB, NOM, IP67 weather rating, IK10 impact rating, KCC, FIPS 140-2 validated, TAA and FY 2019 NDAA compliant	<b>Included Accessories</b>	Setup guide, wall mount screws and anchors (4x), T10 security torx screwdriver, mounting template, cable gland wrench, desiccant pack, conduit adapter

## Mechanical

<b>Weight</b>	Camera: 847g / 29.88oz Mount plate: 174g / 6.14oz	<b>Body</b>	Aluminum, plastic dome trim
<b>Dimensions</b>	Ø: 155mm / 6.10in, H: 114.6mm / 4.51in with mount plate Ø: 155mm / 6.10in, H: 107.6mm / 4.24in without mount plate		

## Software capabilities

<b>Alerts</b>	Camera status, motion detection, people detection, vehicle detection, Person of Interest detection, crowd detection, line-crossing detection, loitering detection	<b>Streaming and Storage</b>	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
<b>People Analytics</b>	People search, attribute search, face search, Occupancy Trends, motion search, trajectory analysis, selective face blurring, AI-powered search	<b>Sharing and Privacy</b>	Live Links, live face blur, privacy regions, audit log
<b>Vehicle Analytics</b>	Vehicle search, attribute search, motion search, trajectory analysis, Occupancy Trends, AI-powered search		



## Ordering Information

### Outdoor FIPS Dome Series pricing

Model Number	MP <sup>1</sup>	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention <sup>1</sup>	People/Vehicle Analytics	Cost (MSRP) <sup>USD</sup>
CD42-256E-HW-F	5.0MP	✓	Fixed	15m / 49ft	256GB	30 Days	✓	\$1,399
CD42-512E-HW-F	5.0MP	✓	Fixed	15m / 49ft	512GB	60 Days	✓	\$1,799
CD42-768E-HW-F	5.0MP	✓	Fixed	15m / 49ft	768GB	90 Days	✓	\$2,199
CD42-1TBE-HW-F	5.0MP	✓	Fixed	15m / 49ft	1TB	120 Days	✓	\$2,599
CD42-2TBE-HW-F	5.0MP	✓	Fixed	15m / 49ft	2TB	365 Days	✓	\$3,899

### Video Security Cloud License pricing

Model Number	Description	Cost (MSRP) <sup>USD</sup>
LIC-CAM-1Y	1-Year Camera License	\$199
LIC-CAM-1Y	3-Year Camera License	\$549
LIC-CAM-5Y	5-Year Camera License	\$899
LIC-CAM-10Y	10-Year Camera License	\$1,799
LIC-CAM-1Y-G	1-Year Camera License for Government	\$299
LIC-CAM-3Y-G	3-Year Camera License for Government	\$799
LIC-CAM-5Y-G	5-Year Camera License for Government	\$1,349
LIC-CAM-10Y-G	10-Year Camera License for Government	\$2,699

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>



## Ordering Information

### Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-MNT-ARM-1	Arm Mount	\$99
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
INJ-POE-PLUS	PoE Plus (802.3at) Injector, GigE	\$129
ACC-MNT-9	Pole Mount	\$209
ACC-MNT-10	Corner Mount	\$199
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-CAM-SHIELD-1	Camera Weather Shield	\$79
ACC-MNT-REC-1	Recessed Ceiling Mount	\$149
ACC-MNT-XLARM-1	Large Arm Mount	\$159