CD42-F
FIPS Indoor Dome Camera

Overview

The CD42-F has a durable, vandal-resistant designs, advanced computer vision features, and incorporate 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 require 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-F is compatible with the standard Verkada Command platform, as well as Command hosted in AWS GovCloud (exclusively available to US government organizations[1]).

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

1. Federal, state, local, or tribal organizations, research institutions, federal contractors, and government contractors.

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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 256GB to 2TB 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 300 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, 8.59W Without IR: 37-57V, 0.11-0.07A, 4.25W 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.

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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	UL, FCC, CB, CE, BIS, NOM, KCC, IK08 impact rating, FIPS 140-2 validated, TAA and FY 2019 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: 146mm / 5.75in, H: 104.3mm / 4.11in with mount plate Ø: 146mm / 5.75in, H: 99.8mm / 3.93in without mount plate		

Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, Person of Interest 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	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		

Ordering Information

Indoor FIPS Dome Series pricing

Model Number	MP[1]	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention[1]	People/ Vehicle Analytics	Cost (MSRP) USD
CD42-256-HW-F	5.0MP	✓	Fixed	15m / 49ft	256GB	30 Days	✓	$1,199
CD42-512-HW-F	5.0MP	✓	Fixed	15m / 49ft	512GB	60 Days	✓	$1,599
CD42-768-HW-F	5.0MP	✓	Fixed	15m / 49ft	768GB	90 Days	✓	$1,999
CD42-1TB-HW-F	5.0MP	✓	Fixed	15m / 49ft	1TB	120 Days	✓	$2,399
CD42-2TB-HW-F	5.0MP	✓	Fixed	15m / 49ft	2TB	365 Days	✓	$3,699

Video Security Cloud License pricing

Model Number	Description	Cost (MSRP) USD
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 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