

## CD43-E-F Government-Grade Outdoor Dome Camera

# Reliable 5MP Coverage for Extensive Visibility in Outdoor Government Environments



## Overview

The CD43-E-F FIPS-validated dome camera provides reliable 5MP coverage in a variety of outdoor environments. With a 1 / 2.8" progressive CMOS image sensor and 20 meters / 66 feet of IR range, the CD43-E-F offers clear and consistent image quality in a wide variety of lighting conditions and inclement weather. The CD43-E-F also includes FIPS 140-validated encryption, has FedRAMP Ready status at the Moderate impact level, and is both TAA and FY2019 NDAA compliant – essential compliance criteria for government-grade deployments. The CD43-E-F is compatible with the standard Verkada Command platform, as well as Command hosted in AWS GovCloud.

The CD43-E-F includes an onboard CV75S Ambarella processor to support advanced analytics like AI-powered search, line crossing, loitering, and person of interest (POI) alerts. The CD43-E-F excels at covering general outdoor spaces like sidewalks, building exteriors, and parking lots, where clear visibility and detailed face and vehicle capture are important for streamlined investigations.

Engineered for challenging outdoor environments, the CD43-E-F's IP66/67 weather and IK10 impact ratings enable the device to withstand harsh conditions. Its in-house design promotes a seamless installation experience, featuring captive screws that remain attached to the mounting plate, a latch-based cable gland for easy PoE threading, a three-LED status light indicator, and a built-in bubble level to help ensure precise alignment.

## Key features

### Excellent image quality

- 1 / 2.8" progressive CMOS image sensor
- 5MP resolution
- 20 meters / 66 feet of IR range for well-defined nighttime viewing

### Advanced analytics

- Onboard CV75S Ambarella processor enables people and vehicle analytics
- Person of interest (POI) alerts for proactive monitoring

### Durability and weather protection

- IP66/67 weather rating and IK10 impact rating
- Operability between -40°C to 50°C / -40°F to 122°F

### Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 - 365 days (256GB - 2TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

### Government-grade security

- Meets the FIPS 140 standard, as validated by NIST
- FedRAMP Ready status at the Moderate impact level as designated by the Federal Risk and Authorization Management Program
- TAA and FY2019 NDAA compliant



## CD43-E-F

## Tech Specs

## 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>	3.2mm	<b>IR Range</b>	20m / 66ft
<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: 101° (84°) Vertical: 73° (66°) Diagonal: 130° (99°)	<b>CPU</b>	Ambarella CV75S88
<b>Sensor Movement</b>	Tilt: 60° Pan: 360° Rotation: 350°		

## 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 / 16ft

## Power and network

<b>Power Input<sup>4</sup></b>	With IR: IEEE 802.3at Type 2 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 / 1000 Mbps
<b>Power Consumption<sup>4</sup></b>	With IR: 37V-57V, 0.39A-0.29A, 16.8W Without IR: 37V-57V, 0.23A-0.15A, 8.5W Extended temperature range: 37V-57V, 0.48A-0.35A, 20.2W	<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 -10°C / 14°F and assumes IR will be enabled.



## CD43-E-F

## Tech Specs

## General

<b>Operating Temperature</b>	-40°C to 50°C / -40°F to 122°F	<b>LED Indicator</b>	System power, status indicator and debug indicator
<b>Humidity</b>	0 to 90%	<b>Warranty</b>	10 Years
<b>Certifications</b>	FCC, ICES, UKCA CE, RCM, VCCI, IK10 impact rating, IP66/67 weather rating, Compliant to UL 2043, FIPS 140-2 validated, TAA compliant, FY2019 NDAA compliant	<b>Included Accessories</b>	Screw packs, mount plate with leveler, cable sealing rubber for 6.5-7.5mm, conduit adapter, T10 security driver, desiccant 4.5g

## Mechanical

<b>Weight</b>	Camera: 1100g / 38.80oz Mount plate: 193g / 6.81oz	<b>Body</b>	Aluminum, plastic dome trim
<b>Dimensions</b>	Ø: 155.0mm / 6.10in, H: 111.4mm / 4.39in with mount plate Ø: 155.0mm / 6.10in, H: 104.4mm / 4.11in without mount plate		

## Dimensions



## Software capabilities

<b>Alerts</b>	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, line-crossing detection, loitering detection, AI-powered alerts	<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

### CD43-E-F 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) <small>USD</small>
CD43-256E-HW-F	5MP	✓	Fixed	20m / 66ft	256GB	30 Days	✓	\$1,399
CD43-512E-HW-F	5MP	✓	Fixed	20m / 66ft	512GB	60 Days	✓	\$1,799
CD43-768E-HW-F	5MP	✓	Fixed	20m / 66ft	768GB	90 Days	✓	\$2,199
CD43-1TBE-HW-F	5MP	✓	Fixed	20m / 66ft	1TB	120 Days	✓	\$2,599
CD43-2TBE-HW-F	5MP	✓	Fixed	20m / 66ft	2TB	365 Days	✓	\$3,899

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

### Video Security Cloud License pricing (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-CAM-1Y-CAP	1-Year Camera License, Capacity Increase	\$219
LIC-CAM-3Y-CAP	3-Year Camera License, Capacity Increase	\$599
LIC-CAM-5Y-CAP	5-Year Camera License, Capacity Increase	\$999
LIC-CAM-10Y-CAP	10-Year Camera License, Capacity Increase	\$1,999
LIC-CAM-1Y-CAP-G	1-Year Camera License for Government, Capacity Increase	\$329
LIC-CAM-3Y-CAP-G	3-Year Camera License for Government, Capacity Increase	\$899
LIC-CAM-5Y-CAP-G	5-Year Camera License for Government, Capacity Increase	\$1,499
LIC-CAM-10Y-CAP-G	10-Year Camera License for Government, Capacity Increase	\$2,999

### Video Security Cloud License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-CAM-1Y-RNW	1-Year Camera License, Renewal	\$219
LIC-CAM-3Y-RNW	3-Year Camera License, Renewal	\$599
LIC-CAM-5Y-RNW	5-Year Camera License, Renewal	\$999
LIC-CAM-10Y-RNW	10-Year Camera License, Renewal	\$1,999
LIC-CAM-1Y-RNW-G	1-Year Camera License for Government, Renewal	\$329
LIC-CAM-3Y-RNW-G	3-Year Camera License for Government, Renewal	\$899
LIC-CAM-5Y-RNW-G	5-Year Camera License for Government, Renewal	\$1,499
LIC-CAM-10Y-RNW-G	10-Year Camera License for Government, Renewal	\$2,999



## Ordering Information

### Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-CAM-SHIELD-1	Camera Weather Shield	\$79
ACC-MNT-ANGLE-1	Angle Mount	\$149
ACC-MNT-ARM-1	Arm Mount	\$99
ACC-MNT-CJBOX-1	Circle Junction Box Mount	\$109
ACC-MNT-CLIP-1	Tile Clip Mount	\$99
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-MNT-LBRAC-1	L-Bracket Mount	\$129
ACC-MNT-PEND-1	Pendant Cap Mount	\$69
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-UPEND-1	Umbrella Pendant Cap Mount	\$79
INJ-POE-PLUS	PoE Plus (802.3at Type 2) Injector, GigE	\$129