

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 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 for GovCloud, Verkada's FedRAMP® Moderate Authorized environment.

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
- 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

Image Sensor	1 / 2.8" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution¹	5MP (2688 x 1944)	Day/Night	IR-cut filter for day and night function
Lens Type	Fixed	IR Cut Filter	Yes
Focal Length	3.2mm	IR Range	20m / 66ft
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 LDC²)	Horizontal: 101° (84°) Vertical: 73° (66°) Diagonal: 130° (99°)	CPU	Ambarella CV75S88
Sensor Movement	Tilt: 60° Pan: 360° Rotation: 350°		

Standard video settings

Compression	H.265, H.264	Historical Video Settings	Adaptive quality ¹
Frame Rate³	24fps	Live Streaming Settings	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps

Standard audio settings

Audio	Supported	Interface	Built-in microphone
Audio Capacity	One-way audio	Effective Range	5m / 16ft

Power and network

Power Input⁴	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+	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption⁴	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	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 -10°C / 14°F and assumes IR will be enabled.



CD43-E-F

Tech specs

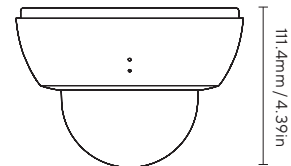
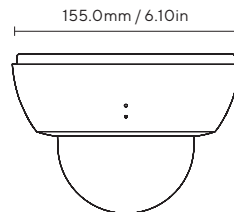
General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	LED Indicator	System power, status indicator and debug indicator
Humidity	0 to 90%	Warranty	10 Years
Certifications	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	Included Accessories	Screw packs, mount plate with leveler, cable sealing rubber for 6.5-7.5mm, conduit adapter, T10 security driver, desiccant 4.5g

Mechanical

Weight	Camera: 1100g / 38.80oz Mount plate: 193g / 6.81oz	Body	Aluminum, plastic dome trim
Dimensions	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

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

CD43-E-F Pricing

Model number	MP ¹	WDR	Lens	IR range	Onboard storage	Maximum SQ onboard retention ¹	People/vehicle analytics	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
CD43-256E-HW-F	5MP	✓	Fixed	20m / 66ft	256GB	30 Days	✓	\$1,699	\$1,599
CD43-512E-HW-F	5MP	✓	Fixed	20m / 66ft	512GB	60 Days	✓	\$2,399	\$2,299
CD43-768E-HW-F	5MP	✓	Fixed	20m / 66ft	768GB	90 Days	✓	\$3,099	\$2,999
CD43-1TBE-HW-F	5MP	✓	Fixed	20m / 66ft	1TB	120 Days	✓	\$3,799	\$3,699
CD43-2TBE-HW-F	5MP	✓	Fixed	20m / 66ft	2TB	365 Days	✓	\$5,999	\$5,899

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	US cost (MSRP) ^{USD}	WW cost(MSRP) ^{USD}
LIC-CAM-1Y-CAP	1-year camera license, capacity increase	\$249	\$249
LIC-CAM-3Y-CAP	3-year camera license, capacity increase	\$659	\$659
LIC-CAM-5Y-CAP	5-year camera license, capacity increase	\$1,099	\$1,099
LIC-CAM-10Y-CAP	10-year camera license, capacity increase	\$2,199	\$2,199
LIC-CAM-1Y-CAP-G	1-Year Camera License for Government, Capacity Increase	\$299	\$299
LIC-CAM-3Y-CAP-G	3-Year Camera License for Government, Capacity Increase	\$809	\$809
LIC-CAM-5Y-CAP-G	5-Year Camera License for Government, Capacity Increase	\$1,349	\$1,349
LIC-CAM-10Y-CAP-G	10-Year Camera License for Government, Capacity Increase	\$2,699	\$2,699

Video Security Cloud License Pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost(MSRP) ^{USD}
LIC-CAM-1Y-RNW	1-year camera license, renewal	\$249	\$249
LIC-CAM-3Y-RNW	3-year camera license, renewal	\$659	\$659
LIC-CAM-5Y-RNW	5-year camera license, renewal	\$1,099	\$1,099
LIC-CAM-10Y-RNW	10-year camera license, renewal	\$2,199	\$2,199
LIC-CAM-1Y-RNW-G	1-Year Camera License for Government, Renewal	\$299	\$299
LIC-CAM-3Y-RNW-G	3-Year Camera License for Government, Renewal	\$809	\$809
LIC-CAM-5Y-RNW-G	5-Year Camera License for Government, Renewal	\$1,349	\$1,349
LIC-CAM-10Y-RNW-G	10-Year Camera License for Government, Renewal	\$2,699	\$2,699



Accessories

Recommended accessories

Model Number	Description
ACC-CAM-SHIELD-1	Camera Weather Shield
ACC-MNT-ANGLE-1	Angle Mount
ACC-MNT-ARM-1	Arm Mount
ACC-MNT-CJBOX-1	Circle Junction Box Mount
ACC-MNT-CLIP-1	Tile Clip Mount
ACC-MNT-CORNER-1	Corner Mount
ACC-MNT-LBRAC-1	L-Bracket Mount
ACC-MNT-PEND-1	Pendant Cap Mount
ACC-MNT-POLE-1	Pole Mount
ACC-MNT-UPEND-1	Umbrella Pendant Cap Mount
INJ-POE-PLUS	PoE Plus (802.3at Type 2) Injector, GigE