

CD63-E-F Government-Grade Outdoor Dome Camera

Vivid 4K Coverage in a Variety of Outdoor Government Environments



Overview

The CD63-E-F is a government-grade outdoor dome camera that features a large 1 / 1.2" progressive CMOS image sensor, varifocal lens with 2.25x optical zoom, and 40 meters / 130 feet of IR range to provide 4K monitoring in a variety of lighting conditions as well as in inclement weather. The CD63-E-F also includes FIPS 140-validated encryption and is both TAA and FY2019 NDAA compliant – essential compliance criteria for government-grade deployments. The CD63-E-F is compatible with the standard Verkada Command platform, as well as Command for GovCloud, Verkada's FedRAMP® Moderate Authorized environment.

The CD63-E-F includes an onboard CV72S Ambarella processor to support advanced analytics like AI-powered search, line crossing, loitering, and person of interest (POI) alerts. The CD63-E-F excels at covering high-traffic exterior environments like building perimeters, parking facilities, and courtyards where detailed analytics expedite investigations.

The CD63-E-F's robust metal housing, IP66/67 weather rating, and IK10 impact rating enable the camera to withstand harsh conditions. Constructed with easy installation top-of-mind, the CD63-E-F features captive screws that remain attached to the mounting plate, a latch-based cable gland for easy PoE threading, a three-LED light status indicator, a built-in bubble level to help ensure precise alignment, and physical and digital mute switches to easily enable or disable audio.

Key features

Superior image quality

- Large 1 / 1.2" progressive CMOS image sensor
- 4K resolution
- Varifocal lens with 2.25x optical zoom
- 40 meters / 130 feet of IR range for optimal nighttime viewing

Advanced analytics

- Onboard CV72S Ambarella processor enables people and vehicle analytics
- Person of interest (POI) alerts for proactive monitoring

Durability and weather protection

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

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

Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 - 120 days (512GB - 3TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage



CD63-E-F

Tech specs

Camera features

Image Sensor	1 / 1.2" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution ¹	4K (3840 x 2160)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom	IR Cut Filter	Yes
Focal Length	5.9 - 13.3mm	IR Range	40m / 130ft
Aperture	F1.5 - F2.9	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	Onboard Storage	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View (after LDC ²)	Horizontal: 109° - 49° (102° - 47°) Vertical: 58° - 28° (58° - 27°) Diagonal: 113° - 55° (107° - 53°)	CPU	Ambarella CV72S66
Sensor Movement	Tilt: 65° Pan: 360° Rotation: 350°		

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 4,500 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 Input ⁴	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 Consumption ⁴	With IR: 43-57V, 0.48-0.36A, 20.4W Without IR: 43-57V, 0.27-0.20A, 11.3W Extended temperature range: 43-57V, 0.60-0.45A, 25.5W	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.



CD63-E-F

Tech specs

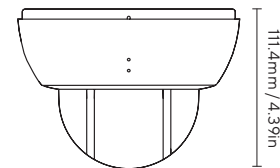
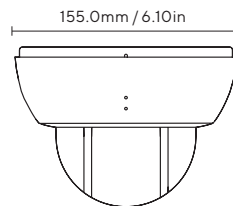
General

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, NTRA, NOM, KCC, VCCI, IK10 impact rating, IEC 62368-1, IP66/67 weather rating, Compliant to UL 2043	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: 1386g / 48.89oz 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

CD63-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}
CD63-512E-HW-F	4K	✓	Zoom	40m / 130ft	512GB	30 Days	✓	\$2,599	\$2,499
CD63-1TB-E-HW-F	4K	✓	Zoom	40m / 130ft	1TB	60 Days	✓	\$3,999	\$3,899
CD63-2TB-E-HW-F	4K	✓	Zoom	40m / 130ft	2TB	90 Days	✓	\$6,199	\$6,099
CD63-3TB-E-HW-F	4K	✓	Zoom	40m / 130ft	3TB	120 Days	✓	\$8,399	\$8,299

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