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, 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 CD63-E-F is compatible with the standard Verkada Command platform, as well as Command hosted in AWS GovCloud.

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.
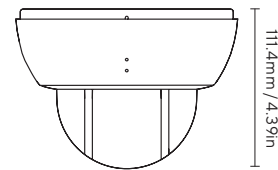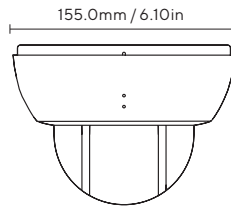
CD63-E-F
Tech Specs

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

155.0mm / 6.10in — 111.4mm / 4.39in

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	Cost (MSRP) USD
CD63-512E-HW-F	4K	✓	Zoom	40m / 130ft	512GB	30 Days	✓	$2,099
CD63-1TBE-HW-F	4K	✓	Zoom	40m / 130ft	1TB	60 Days	✓	$2,899
CD63-2TBE-HW-F	4K	✓	Zoom	40m / 130ft	2TB	90 Days	✓	$4,199
CD63-3TBE-HW-F	4K	✓	Zoom	40m / 130ft	3TB	120 Days	✓	$5,499

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