

CD63-E Outdoor Dome Camera

Vivid 4K Coverage Built to Withstand Harsh Environments



Overview

The CD63-E outdoor dome camera features a large 1 / 1.2" progressive CMOS image sensor and, with 4K resolution, provides unparalleled monitoring in high-traffic exterior environments—like building entrances or busy intersections—in a variety of lighting conditions and inclement weather. The CD63-E includes an onboard CV72 Ambarella processor for advanced analytics like AI-powered search, motion trajectory mapping, line crossing, and loitering alerts.

Engineered in-house for optimal performance, the CD63-E's robust metal housing, IP66/67 weather rating, and IK10 impact rating ensure functionality in the harshest weather. Constructed with easy installation and scalable fleet deployments top-of-mind, the CD63-E 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 microphone mute switch for privacy, and a built-in bubble level for precise alignment.

Key features

Superior image quality

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

Advanced analytics

- Onboard CV72 Ambarella processor enables people and vehicle analytics
- AI-powered search and AI-powered alerts
- Occupancy Trends for operational insights

Hybrid cloud architecture

- Onboard storage and processing helps reduce bandwidth consumption, and enables coverage at scale
- 512GB - 3TB onboard storage

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

Streamlined installation

- Latch-based cable gland for easy PoE threading
- Captive screws in mounting plate
- Three-LED light status indicator
- Built-in bubble level
- Microphone mute switch for enhanced privacy



CD63-E Tech Specs

Camera features

Image Sensor	1/1.2" Progressive CMOS	Shutter Speed	1/30 sec. to 1/10,000 sec.
Sensor Resolution¹	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 LDC²)	Horizontal: 75° - 109° (72° - 102°) Vertical: 45° - 58° (44° - 58°) Diagonal: 82° - 113° (80° - 107°)	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 Rate³	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 / 15ft

Power and network

Power Input⁴	With IR: IEEE 802.3at Type 2 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: 42.5-57.0V, 0.48-0.36A, 20.4W Without IR: 42.5-57.0V, 0.27-0.20A, 11.3W Extended temperature range: 42.5-57.0V, 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 -8.5°C / 16.7°F and assumes IR will be enabled.



CD63-E 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, IK10 impact rating, IP66/IP67 weather rating	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: 1386.0g / 48.9oz Mount plate: 193.0g / 6.8oz	Body	Aluminum, plastic dome trim
Dimensions	Ø: 155mm / 6.1in, H: 111.4mm / 4.4in with mount plate Ø: 155mm / 5.1in, H: 104.4mm / 4.1in 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 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	4K	✓	Varifocal; Motorized zoom	40m / 130ft	512GB	30 Days	✓	\$1,699
CD63-1TBE-HW	4K	✓	Varifocal; Motorized zoom	40m / 130ft	1TB	60 Days	✓	\$2,499
CD63-2TBE-HW	4K	✓	Varifocal; Motorized zoom	40m / 130ft	2TB	90 Days	✓	\$3,799
CD63-3TBE-HW	4K	✓	Varifocal; Motorized zoom	40m / 130ft	3TB	120 Days	✓	\$5,099

Video Security Cloud License pricing

Model Number	Description	Cost (MSRP) ^{USD}
LIC-CAM-1Y	1-Year Camera License	\$199
LIC-CAM-3Y	3-Year Camera License	\$549
LIC-CAM-5Y	5-Year Camera License	\$899
LIC-CAM-10Y	10-Year Camera License	\$1,799

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

Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-MNT-LBRAC-1	L-bracket Mount	\$129
ACC-MNT-ANGLE-1	Angle Mount Kit	\$149
ACC-MNT-UPEND-1	Umbrella Pendant Cap (outdoor)	\$79
INJ-POE-PLUS	PoE Plus (802.3at) Injector, GigE	\$129
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
ACC-MNT-CJBOX-1	Circle Junction Box	\$109
ACCT-MNT-ARM-1	Arm Mount	\$99
ACC-MNT-PEND-1	Standard Pendant Cap	\$69
ACC-MNT-CLIP-1	Tile Clips Mount	\$99

Viewing Station pricing

VX52-HW	VX52 Viewing Station	\$499
LIC-VX-1Y	1-Year Viewing Station License	\$499
LIC-VX-3Y	3-Year Viewing Station License	\$1,299
LIC-VX-5Y	5-Year Viewing Station License	\$1,999
LIC-VX-10Y	10-Year Viewing Station License	\$3,999