

CD63-E Outdoor Dome Camera

Vivid 4K Coverage in a Variety of Outdoor Environments



Overview

The CD63-E outdoor dome camera 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 unparalleled 4K monitoring in a variety of lighting conditions as well as in inclement weather. The CD63-E includes a powerful CV72S Ambarella processor for advanced analytics like AI-powered search, [Occupancy Trends](#), line crossing, loitering, and Person of Interest (POI) alerts. The CD63-E excels at covering high-traffic exterior environments like building entrances or busy intersections where detailed analytics expedite investigations and provide valuable operational insights.

The CD63-E's robust metal housing, IP66/67 weather rating, and IK10 impact rating enable the device to withstand harsh conditions. Constructed with easy installation 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, and a built-in bubble level to help ensure precise alignment.

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

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

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

Streamlined installation

- Latch-based cable gland for easy PoE threading
- Captive screws in mounting plate
- Three-LED light status indicator
- Built-in bubble level
- Physical and digital mute switches to easily enable or disable audio



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: 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 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 / 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: 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

Tech Specs

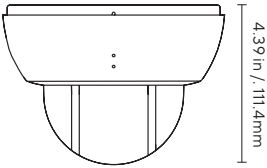
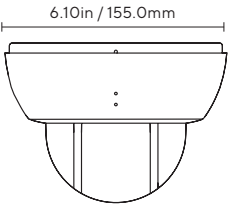
General

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		