

CD43-E Outdoor Dome Camera

Reliable 5MP coverage for clear visibility of outdoor environments



Overview

The CD43-E dome camera provides 5MP coverage in a variety of outdoor environments. With a 1 / 2.8" progressive CMOS image sensor and 66 feet / 20 meters of IR range, the CD43-E offers clear and consistent image quality in a wide variety of lighting conditions and inclement weather. The CD43-E includes an onboard CV75S Ambarella processor to support advanced analytics like AI-powered search, [occupancy trends](#), line crossing, loitering, and person of interest (POI) alerts. The CD43-E excels at covering high-traffic, outdoor spaces like parking lot entrances and exits, building exteriors, and loading docks, where detailed face and vehicle capture are critical to quick investigations.

Engineered for challenging outdoor environments, the CD43-E'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
- 66 feet / 20 meters of IR range for well-defined nighttime viewing

Advanced analytics

- Onboard CV75S Ambarella processor for advanced people and vehicle analytics
- AI-powered search and AI-powered alerts
- Occupancy trends for operational insights

Durability and weather protection

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

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

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



CD43-E

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	66ft / 20m
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	16ft / 5m

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: 37-57V, 0.39-0.29A, 16.8W Without IR: 37-57V, 0.23-0.15A, 8.5W Extended temperature range: 37-57V, 0.48-0.35A, 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 14°F / -10°C and assumes IR will be enabled.



CD43-E

Tech specs

General

Operating temperature	-40°F to 122°F / -40°C to 50°C	LED indicators	System power and status indicator, debug indicator
Humidity	0 to 90%	Warranty	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NOM, VCCI, IK10 impact rating, IP66/IP67 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: 38.80oz / 1100g Mount plate: 6.81oz / 193g	Body	Aluminum, plastic dome trim
Dimensions	Ø: 6.10in / 155.0mm, H: 4.39in / 111.4mm with mount plate Ø: 6.10in / 155.0mm, H: 4.11in / 104.4mm 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 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	5MP	✓	Fixed	66ft / 20m	256GB	30 Days	✓	\$1,399	\$1,299
CD43-512E-HW	5MP	✓	Fixed	66ft / 20m	512GB	60 Days	✓	\$2,099	\$1,999
CD43-768E-HW	5MP	✓	Fixed	66ft / 20m	768GB	90 Days	✓	\$2,799	\$2,699
CD43-1TBE-HW	5MP	✓	Fixed	66ft / 20m	1TB	120 Days	✓	\$3,499	\$3,399
CD43-2TBE-HW	5MP	✓	Fixed	66ft / 20m	2TB	365 Days	✓	\$5,699	\$5,599

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 software license pricing (new/capacity increase)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-CAM-1Y-CAP	Verkada 1-Year Camera License, Capacity Increase	\$249	\$249
LIC-CAM-3Y-CAP	Verkada 3-Year Camera License, Capacity Increase	\$659	\$659
LIC-CAM-5Y-CAP	Verkada 5-Year Camera License, Capacity Increase	\$1,099	\$1,099
LIC-CAM-10Y-CAP	Verkada 10-Year Camera License, Capacity Increase	\$2,199	\$2,199

Video Security software license pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-CAM-1Y-RNW	Verkada 1-Year Camera License, Renewal	\$249	\$249
LIC-CAM-3Y-RNW	Verkada 3-Year Camera License, Renewal	\$659	\$659
LIC-CAM-5Y-RNW	Verkada 5-Year Camera License, Renewal	\$1,099	\$1,099
LIC-CAM-10Y-RNW	Verkada 10-Year Camera License, Renewal	\$2,199	\$2,199



Accessories

Recommended accessories

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