CD43 Indoor Dome Camera

Reliable 5MP Coverage for Clear Monitoring of Indoor Spaces

Overview

The CD43 dome camera provides 5MP coverage for a variety of indoor environments. With a 1 / 2.8" progressive CMOS image sensor and 20 meters / 66 feet of IR range, the CD43 offers clear and consistent image quality in most lighting conditions. The CD43 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 excels at covering busy everyday spaces like offices, lobbies, and parking garages. With its reliable coverage and detailed face and vehicle capture, it serves as the foundation for comprehensive enterprise fleet deployments.

Installation of the CD43 is straightforward and efficient, and setup is easy to monitor with a three-LED status indicator. The included mount plate contains captive screws and a built-in bubble level for precise wall or ceiling installations. With hardware features to expedite installation and an IK08 impact rating, the CD43 balances enterprise-grade durability with modern aesthetics.

Key features

Excellent image quality

- 1 / 2.8" progressive CMOS image sensor
- 5MP resolution
- 20 meters / 66 feet 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

Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 - 365 days (256GB - 2TB) onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

Streamlined installation

- 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

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Tech Specs

Camera features

Image Sensor	1 / 2.8" Progressive CMOS	**Shutter Speed**	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution[1]	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**	20m / 66ft
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 LDC[2]**)**	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 Rate[3]	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**	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: N/A	**Connectivity**	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power Consumption[4]	With IR: 37V-57V, 0.39A-0.29A, 16.8W Without IR: 37V-57V, 0.23A-0.15A, 8.5W Extended temperature range: N/A	**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.

CD43
Tech Specs

General

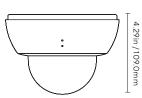|			
Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power, status indicator and debug indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, ICES, UKCA, CE, RCM, NOM, VCCI, ICASA, IK08 impact rating, Compliant to UL 2043	**Included Accessories**	Screw packs, mount plate with leveler, T10 security driver

Mechanical

Weight	Camera: 951g / 33.55oz Mount plate: 193g / 6.81oz	**Body**	Aluminum, plastic dome trim
Dimensions	Ø: 155.0mm / 6.10in, H: 109.0mm / 4.29in with mount plate Ø: 155.0mm / 6.10in, H: 101.9mm / 4.01in without mount plate		

Dimensions

6.10in / 155.0mm

4.29in / 109.0mm

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		