

## CD42 Indoor Dome Camera

# Reliable 5MP Coverage for Extensive Visibility in Indoor Spaces



## Overview

The CD42 dome camera – the backbone of enterprise fleet deployments – provides reliable 5MP coverage in a variety of indoor environments. With a 1 / 2.8" progressive CMOS image sensor and 15 meters / 49 feet of IR range, the CD42 ensures consistent image quality in any lighting condition. The CD42 includes an onboard CV25S Ambarella processor to support advanced analytics like AI-powered search, [Occupancy Trends](#), line crossing, loitering, and Person of Interest (POI) alerts. The CD42 excels at covering indoor spaces like hallways and retail floors, providing extensive coverage with detailed people analytics without sacrificing image quality.

The CD42's sleek design and IK08 impact rating enable organizations to deploy a durable, tamper-resistant camera while also keeping aesthetics top-of-mind. Installation is simple and intuitive, and setup is easy to track with an LED status indicator. The included mount plate additionally allows the camera to be mounted to a wall or ceiling without any additional hardware.

## Key features

### Excellent image quality

- 1 / 2.8" progressive CMOS image sensor
- 5MP resolution
- 15 meters / 49 feet of IR range for well-defined nighttime viewing

### Advanced analytics

- Onboard CV25S 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 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

### Easy installation

- Mounting plate and screw pack included
- LED light status indicator
- Digital mute switch to quickly enable or disable audio



## CD42

### Tech Specs

#### Camera features

<b>Image Sensor</b>	1 / 2.8" Progressive CMOS	<b>Shutter Speed</b>	1 / 30 sec. to 1 / 10,000 sec.
<b>Sensor Resolution<sup>1</sup></b>	5MP (2688 x 1944)	<b>Day/Night</b>	IR-cut filter for day and night function
<b>Lens Type</b>	Fixed	<b>IR Cut Filter</b>	Yes
<b>Focal Length</b>	2.8mm	<b>IR Range</b>	15m / 49ft
<b>Aperture</b>	F1.6	<b>Minimum Illumination</b>	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
<b>Iris</b>	Fixed	<b>Onboard Storage</b>	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
<b>Field of View (after LDC<sup>2</sup>)</b>	Horizontal: 97° (78°) Vertical: 71° (63°) Diagonal: 128° (91°)	<b>CPU</b>	Ambarella CV25S88
<b>Sensor Movement</b>	Tilt: 60° Pan: 355° Rotation: 180°		

#### Standard video settings

<b>Compression</b>	H.265, H.264	<b>Historical Video Settings</b>	Adaptive quality <sup>1</sup>
<b>Frame Rate<sup>3</sup></b>	24fps	<b>Live Streaming Settings</b>	High quality (HQ): Up to 3,000 Kbps (default) Standard quality (SQ): Up to 600 Kbps

#### Standard audio settings

<b>Audio</b>	Supported	<b>Interface</b>	Built-in microphone
<b>Audio Capacity</b>	One-way audio	<b>Effective Range</b>	5m / 15ft

#### Power and network

<b>Power Input<sup>4</sup></b>	With IR: IEEE 802.3af Type 1 PoE Without IR: IEEE 802.3af Type 1 PoE Extended temperature range: N/A	<b>Connectivity</b>	RJ-45 cable connector for network/PoE connection; 10 / 100 Mbps
<b>Power Consumption<sup>4</sup></b>	With IR: 37-57V, 0.23-0.15A, 8.6W Without IR: 37-57V, 0.11-0.07A, 4.3W Extended temperature range: N/A	<b>RTSP</b>	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.



CD42  
Tech Specs

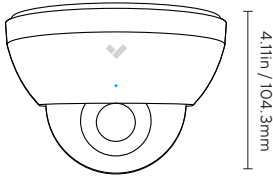
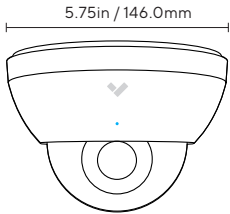
General

Operating Temperature	-10°C to 50°C / 14°F to 122°F	LED Indicator	System power and status indicator
Humidity	0 to 90%	Warranty	10 Years
Certifications	FCC, ICES, CE, UKCA, RCM, VCCI, KCC, BIS, NOM, UL/cUL/IEC 62368-1, CB, INCM, IK08 impact rating, FY2019 NDAA compliant	Included Accessories	Setup guide, T10 security torx screwdriver, screw pack, mounting template

Mechanical

Weight	Camera: 608g / 21.45oz Mount plate: 140g / 4.94oz	Body	Aluminum, plastic dome trim
Dimensions	Ø: 146.0mm / 5.75in, H: 104.3mm / 4.11in with mount plate Ø: 146.0mm / 5.75in, H: 99.8mm / 3.93in 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		