

CM42 Indoor Mini Dome Camera

Reliable 5MP Coverage in a Compact Form Factor



Overview

The CM42 mini dome camera provides reliable 5MP coverage in a compact form factor suited for discreet deployments and small spaces. With its 1/2.8" progressive CMOS image sensor and 20 meters / 66 feet of IR range, the CM42 ensures consistent image quality in a variety of lighting conditions. The CM42 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 CM42 is optimal for locations such as IT closets and hallway alcoves where space is limited, providing extensive coverage with detailed people analytics.

The CM42's sleek design and IK08 impact rating enable organizations to deploy a durable, tamper-resistant camera in small spaces 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
- 20 meters / 66 feet of IR range for well-defined nighttime viewing

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

Advanced analytics

- Onboard CV25S Ambarella processor enables people and vehicle analytics
- AI-powered search and AI-powered alerts
- Occupancy trends for operational insights

Easy installation

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



CM42

Tech Specs

Camera features

Image Sensor	1/2.8" Progressive CMOS	Shutter Speed	1/30 sec. to 1/10,000 sec.
Sensor Resolution¹	5MP (2592 x 1944)	Day/Night	IR-cut filter for day and night function
Lens Type	Fixed	IR Cut Filter	Yes
Focal Length	2.8mm	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 LDC²)	Horizontal: 95° (79°) Vertical: 69° (62°) Diagonal: 130° (96°)	CPU	Ambarella CV25S88
Sensor Movement	Tilt: 60° Pan: 350° Rotation: 180°		

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
WDR Technology	104 dB dynamic range, true WDR, dual exposure		

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 802.3af Type 1 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 Consumption⁴	With IR: 37-57V, 0.17-0.11A, 6.1W Without IR: 37-57V, 0.09-0.06A, 3.2W 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.



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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, MoE, NRKZI, EN 50155, UL/cUL/IEC 62368-1, IK08 impact rating, FY2019 NDAA compliant	Included Accessories	Setup guide, T10 security torx screwdriver, 3x wingnuts, 3x washers, 3x TP4.0 mount screws, 3x M4 wall screws, 3x wall anchors

Mechanical

Weight	Camera: 290g / 10.23oz Mount plate: 98g / 3.46oz	Body	Aluminum, plastic dome trim
Dimensions	$\varnothing: 124.5\text{mm} / 4.90\text{in}$, H: 71.5mm / 2.81in		

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

CM42 pricing

Model Number	MP ¹	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention ¹	People/Vehicle Analytics	Cost (MSRP) <small>USD</small>
CM42-256-HW	5MP	✓	Fixed	20m / 66ft	256GB	30 Days	✓	\$699
CM42-512-HW	5MP	✓	Fixed	20m / 66ft	512GB	60 Days	✓	\$1,099
CM42-768-HW	5MP	✓	Fixed	20m / 66ft	768GB	90 Days	✓	\$1,499
CM42-1TB-HW	5MP	✓	Fixed	20m / 66ft	1TB	120 Days	✓	\$1,899
CM42-2TB-HW	5MP	✓	Fixed	20m / 66ft	2TB	365 Days	✓	\$3,199

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 Cloud License pricing (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-CAM-1Y-CAP	1-Year Camera License, Capacity Increase	\$219
LIC-CAM-3Y-CAP	3-Year Camera License, Capacity Increase	\$599
LIC-CAM-5Y-CAP	5-Year Camera License, Capacity Increase	\$999
LIC-CAM-10Y-CAP	10-Year Camera License, Capacity Increase	\$1,999

Video Security Cloud License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-CAM-1Y-RNW	1-Year Camera License, Renewal	\$219
LIC-CAM-3Y-RNW	3-Year Camera License, Renewal	\$599
LIC-CAM-5Y-RNW	5-Year Camera License, Renewal	\$999
LIC-CAM-10Y-RNW	10-Year Camera License, Renewal	\$1,999



Ordering Information

Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-MNT-ARM-1	Arm Mount	\$99
ACC-MNT-CLIP-1	Tile Clip Mount	\$99
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-MNT-MJBOX-1	Mini Junction Box Mount	\$79
ACC-MNT-MPEND-1	Mini Pendant Cap Mount	\$79
ACC-MNT-MREC-1	Mini Recess Mount	\$149
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-SJBOX-1	Square Junction Box	\$89
INJ-POE-PLUS	PoE Plus (802.3at Type 2) Injector, GigE	\$129



Ordering Information

Viewing Station pricing

Model Number	Description	Cost (MSRP) USD
VX52-HW	VX52 Viewing Station	\$499

Viewing Station License pricing (New/Capacity Increase)

Model Number	Description	Cost (MSRP) USD
LIC-VX-1Y-CAP	1-Year Viewing Station License, Capacity Increase	\$499
LIC-VX-3Y-CAP	3-Year Viewing Station License, Capacity Increase	\$1,299
LIC-VX-5Y-CAP	5-Year Viewing Station License, Capacity Increase	\$1,999
LIC-VX-10Y-CAP	10-Year Viewing Station License, Capacity Increase	\$3,999

Viewing Station License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-VX-1Y-RNW	1-Year Viewing Station License, Renewal	\$499
LIC-VX-3Y-RNW	3-Year Viewing Station License, Renewal	\$1,299
LIC-VX-5Y-RNW	5-Year Viewing Station License, Renewal	\$1,999
LIC-VX-10Y-RNW	10-Year Viewing Station License, Renewal	\$3,999