CM42-S Mini Split Camera

Compact and Flexible 5MP Coverage for Specialized Deployments

Overview

The CM42-S mini split camera is a discreet camera, engineered to blend into a variety of environments. The compact CM42-S is comprised of a sensor unit, main unit, and 2.0-meter / 6.6-foot USB-C connecting cable, making it an ideal choice for installations in ATMs, retail settings, and other confined spaces. A 4.0-meter / 13.1-foot USB-C connecting cable is also available for deployments requiring a longer distance between the sensor unit and the main unit.

Despite the sensor's small size (H: 47.4mm / 1.87in, W: 36.4mm / 1.43in, L: 40.2mm / 1.58in), the CM42-S features 5MP resolution and an Ambarella CV25S processor, making it ideal for a variety of deployments. An audio port allows for an external microphone, enabling customers to complement video monitoring with audio recording. Its 2-meter / 6-foot USB-C connecting cable offers flexible and customizable installation, and its HDMI output promotes streaming locally to a display, like a public viewing monitor, which are often found in retail environments. The CM42-S is engineered to capture video even in low-light conditions, making it suitable for round-the-clock monitoring.

Key features

Excellent image quality

- 1 / 2.8″ progressive CMOS image sensor
- 5MP resolution
- 15 meters / 49 feet of IR range for 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

Comprehensive monitoring

- HDMI output allows customers to stream to a public viewing monitor in retail environments
- Microphone port to supplement video coverage with audio

Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 or 90 days (256GB or 768GB) of onboard storage

Flexible installation

- Separate body unit enables image sensor to be deployed in compact spaces
- 2.0-meter / 6.6-foot USB-C cable included
- Double-sided tape for wall mounting main unit
- Screws and mount bracket for sensor unit
- LED light status indicator

CM42-S
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 (2592 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**	15m / 49ft
Aperture	F1.6	**Minimum Illumination**	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	Fixed	**Onboard Storage**	Capacity: From 256GB, 768GB Card: MicroSD, SDXC
Field of View (after LDC[2]**)**	Horizontal: 99° (80°) Vertical: 71° (63°) Diagonal: 107° (92°)	**CPU**	Ambarella CV25S88
Inputs/Ouputs	3.5mm audio input, micro-HDMI output, +/- AUX[4] with 12V / 4W power output, USB-C sensor input [3]		

Standard video settings

Compression	H.265, H.264	**Historical Video Settings**	Adaptive quality[1]
Frame Rate[5]	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**	3.5mm audio input
Audio Capacity	One-way audio		

Power and network

Power Input[6]	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 Consumption[6]	With IR: 37-57V, 0.20-0.13A, 7.3W Without IR: 37-57V, 0.12-0.08A, 4.3W 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. Should the customer choose to use their own USB-C cable, it must be USB-C 3.1 (or higher) speed rated.
4. +/- Aux not currently supported. Support is forthcoming.
5. Frame rate can be adjusted by support.
6. Extended temperature range includes operating temperatures below -10°C / 14°F and assumes IR will be enabled.

CM42-S
Tech Specs

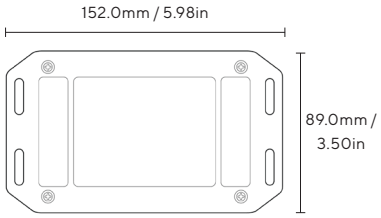
General

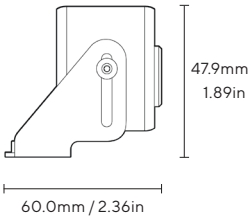
Operating Temperature	-10°C to 50°C / 14°F to 122°F	**LED Indicator**	System power and status indicator
Humidity	0 to 90%	**Warranty**	10 Years
Certifications	FCC, IC, UL/cUL/IEC 62368-1, VCCI, NOM	**Included Accessories**	T10 security torx screwdriver, 1x 1/4"-20 screw, 4x wall screws, 4x wall anchors, 1x 2m USB-C cable, double-sided tape for wall mounting main unit and sensor unit mount bracket

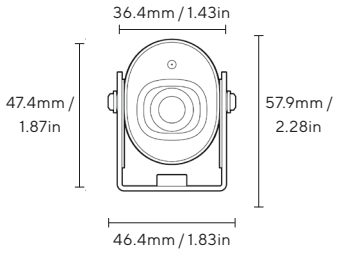
Mechanical

Weight	Camera Sensor Unit: 110g / 3.89oz Camera Main Unit: 243g / 8.56oz USB-C Cable: 80g / 2.82oz	**Body**	Aluminum, plastic
Dimensions[7]	Camera Sensor Unit: H: 47.4mm / 1.87in, W: 36.4mm / 1.43in, L: 40.2mm / 1.58in Camera Main Unit: H: 25.5mm / 1.00in, W: 89.0mm / 3.50in, L: 152.0mm / 5.98in		

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		

7. Mechanical dimensions listed here represent the sensor unit without the bracket attached.

Ordering Information

CM42-S pricing

Model Number	MP[1]	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention[1]	People/ Vehicle Analytics	Cost (MSRP) USD
CM42-256S-HW	5MP	✓	Fixed	15m / 49ft	256GB	30 Days	✓	$999
CM42-768S-HW	5MP	✓	Fixed	15m / 49ft	768GB	90 Days	✓	$1799

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-CAM-USBC-4M	4.0m / 13.1ft USB-C Cable (3.1 Speed Rated)	$79

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