

CD53-F Government-Grade Indoor Dome Camera

Reliable 5MP Coverage for Detailed Visibility in Indoor Government Spaces



Overview

The CD53-F FIPS-validated dome camera provides flexible 5MP coverage in a range of indoor environments. With a 1/2.8" progressive CMOS image sensor, 2.86x optical zoom, and 30 meters / 98 feet of IR range, the CD53-F offers consistent image quality in most lighting conditions at a variety of distances. The CD53-F also includes FIPS 140-validated encryption, has FedRAMP Ready status at the Moderate impact level, and is both TAA and FY2019 NDAA compliant – essential compliance criteria for government-grade deployments. The CD53-F is compatible with the standard Verkada Command platform, as well as Command hosted in AWS GovCloud.

The CD53-F includes an onboard CV75S Ambarella processor to support advanced analytics like Al-powered search, line crossing, loitering, and Person of Interest (POI) alerts. The CD53-F is optimal for covering large and busy spaces such as lobbies, high-ceiling atriums, and manufacturing floors, where detailed face and vehicle capture is required at longer distances.

Installation of the CD53-F is straightforward and efficient, and setup is easy to monitor with a three-LED status indicator. The included mount plate includes captive screws and a built-in bubble level for precise wall or ceiling installations. The CD53-F's ground-up design and IK08 impact rating provide a premium, tamper-resistant camera that combines durability with aesthetics.

Key features

Excellent image quality

- 1/2.8" progressive CMOS image sensor
- 5MP resolution
- Varifocal lens with 2.86x optical zoom
- 30 meters / 98 feet of IR range for extensive nighttime visibility

Government-grade security

- Meets the FIPS 140 standard, as validated by NIST
- FedRAMP Ready status at the Moderate impact level as designated by the Federal Risk and Authorization Management Program
- TAA and FY2019 NDAA compliant

Advanced analytics

- Onboard CV75S Ambarella processor enables people and vehicle analytics
- Person of Interest (POI) alerts for proactive monitoring

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



CD53-F

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	Varifocal; motorized zoom	IR Cut Filter	Yes
Focal Length	2.8-8mm	IR Range	30m / 98ft
Aperture	F1.3 - F2.4	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	Onboard Storage	Capacity: From 256GB to 2TB Card: MicroSD, SDXC
Field of View (after LDC²)	Horizontal: 109° - 39° (91° - 36°) Vertical: 80° - 29° (71° - 28°) Diagonal: 140° - 48° (107° - 44°)	СРИ	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.

 $^{4. \, \}text{Extended temperature range includes operating temperatures below -} 10\,^{\circ}\text{C} \, / \, 14\,^{\circ}\text{F and assumes IR will be enabled}.$



CD53-F

Tech Specs

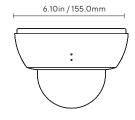
General

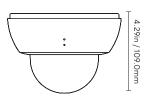
Operating Temperature -10°C to 50°C / 14°F to 122°F		LED Indicator	System power, status indicator, and debug indicator	
Humidity	0 to 90%	Warranty	10 Years	
Certifications	FCC, ICES, UKCA CE, RCM, VCCI, IK08 impact rating, Compliant to UL 2043, FIPS 140-2 validated, TAA compliant, FY2019 NDAA compliant	Included Accessories	Screw packs, mount plate with leveler, T10 security driver	

Mechanical

Weight	Camera: 963g / 33.97oz 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





Software capabilities

Alerts	Camera status, motion detection, people detection, vehicle detection, Person of Interest detection, crowd detection, line-crossing detection, loitering detection, Al-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, Al-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, Al-powered search		



Ordering Information

CD53-F pricing

Model Number	MP¹	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention ¹	People/ Vehicle Analytics	Cost (MSRP) ^{USD}
CD53-256-HW-F	5MP	~	Zoom	30m / 98ft	256GB	30 Days	~	\$1,399
CD53-512-HW-F	5MP	~	Zoom	30m / 98ft	512GB	60 Days	~	\$1,799
CD53-768-HW-F	5MP	~	Zoom	30m / 98ft	768GB	90 Days	~	\$2,199
CD53-1TB-HW-F	5MP	~	Zoom	30m / 98ft	1TB	120 Days	~	\$2,599
CD53-2TB-HW-F	5MP	~	Zoom	30m / 98ft	2TB	365 Days	~	\$3,899

^{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	\$199
LIC-CAM-3Y-CAP	3-Year Camera License, Capacity Increase	\$549
LIC-CAM-5Y-CAP	5-Year Camera License, Capacity Increase	\$899
LIC-CAM-10Y-CAP	10-Year Camera License, Capacity Increase	\$1,799
LIC-CAM-1Y-CAP-G	1-Year Camera License for Government, Capacity Increase	\$299
LIC-CAM-3Y-CAP-G	3-Year Camera License for Government, Capacity Increase	\$799
LIC-CAM-5Y-CAP-G	5-Year Camera License for Government, Capacity Increase	\$1,349
LIC-CAM-10Y-CAP-G	10-Year Camera License for Government, Capacity Increase	\$2,699

Video Security Cloud License pricing (Renewal)

Model Number	Description	Cost (MSRP) USD
LIC-CAM-1Y-RNW	1-Year Camera License, Renewal	\$199
LIC-CAM-3Y-RNW	3-Year Camera License, Renewal	\$549
LIC-CAM-5Y-RNW	5-Year Camera License, Renewal	\$899
LIC-CAM-10Y-RNW	10-Year Camera License, Renewal	\$1,799
LIC-CAM-1Y-RNW-G	1-Year Camera License for Government, Renewal	\$299
LIC-CAM-3Y-RNW-G	3-Year Camera License for Government, Renewal	\$799
LIC-CAM-5Y-RNW-G	5-Year Camera License for Government, Renewal	\$1,349
LIC-CAM-10Y-RNW-G	10-Year Camera License for Government, Renewal	\$2,699



Ordering Information

Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-CAM-SHIELD-1	Camera Weather Shield	\$79
ACC-MNT-ANGLE-1	Angle Mount	\$149
ACC-MNT-ARM-1	Arm Mount	\$99
ACC-MNT-CJBOX-1	Circle Junction Box Mount	\$109
ACC-MNT-CLIP-1	Tile Clip Mount	\$99
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-MNT-LBRAC-1	L-Bracket Mount	\$129
ACC-MNT-PEND-1	Pendant Cap Mount	\$69
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-REC-2	Recess Ceiling Mount	\$149
INJ-POE-PLUS	PoE Plus (802.3at Type 2) Injector, GigE	\$129