

CH63-E-G Government-Grade Four-Camera Multisensor

4K coverage in all directions
for government environments



Overview

The CH63-E-G Government-Grade Four-Camera Multisensor features four independent and adjustable image sensors which together support 4K coverage in all directions from a single install point. 1 / 2.8" progressive CMOS image sensors, each with 2.55x optical zoom and 98 feet / 30 meters of IR range, enable vivid and highly-detailed image quality in varied lighting conditions. The CH63-E-G also includes FIPS 140-validated encryption and is both TAA and FY2019 NDAA compliant – essential compliance criteria for government-grade deployments. The CH63-E-G is compatible with the standard Verkada Command platform, as well as Command for GovCloud, Verkada's FedRAMP® Moderate Authorized environment.

The CH63-E-G includes a pair of CV72S Ambarella processors to support advanced analytics like [AI-powered search](#), [AI-powered unified timeline](#), [occupancy trends](#), line crossing, loitering, and person of interest (POI) alerts. The camera is optimal for covering busy hallway intersections, open atriums near key entrances and exits, and open floor areas with valuable merchandise, offering detailed face and vehicle capture across an undistorted 360° field of view.

The CH63-E-G's IP66/IP67 weather rating and IK10 impact rating enable the device to withstand extreme temperatures and excessive precipitation. Constructed with easy and efficient installation top-of-mind, the CH63-E-G features a latch-based cable gland for easy PoE threading, a three-LED light status indicator, and alignment presets that guide each lens into optimal positions for common viewing angles.

Key features

Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 - 120 days (2TB - 8TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

Advanced analytics

- Onboard CV72S Ambarella processors enable people and vehicle analytics
- AI-powered search and AI-powered alerts
- Occupancy trends for operational insights

Government-grade security

- Meets the FIPS 140 standard, as validated by NIST
- FedRAMP Moderate Authorized
- TAA and FY2019 NDAA compliant

Superior image quality

- Four 1 / 2.8" progressive CMOS image sensors
- 4K resolution
- Four varifocal lenses with 2.55x optical zoom per lens
- 98 feet / 30 meters of IR range for nighttime viewing

Durability and weather protection

- Robust metal housing
- IP66/IP67 weather rating
- IK10 impact rating
- Operability between -40°F to 122°F / -40°C to 50°C

Expansive coverage

- Individually adjustable and repositionable sensor heads
- Combined field of view up to 360°



CH63-E-G

Tech specs

Camera features

Image sensor	4 x 1 / 2.8" progressive CMOS	Shutter speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor resolution¹	4 x 4K (3856 x 2228)	Day/night	IR-cut filter for day and night function
Lens type	Varifocal; motorized zoom	IR-cut filter	Yes
Focal length	3.18mm - 8.12mm	IR range	98ft / 30m; non-adjustable
Aperture	F1.9 - F3.24	Minimum illumination	0.009 lux @ F1.9 (color) 0 lux with IR illuminators on
Iris	N/A	Onboard storage	Capacity: from 1TB to 8TB Card: microSD, SDXC
Field of view (after LDC²)	Horizontal: 112° - 42° (104° - 40°) Vertical: 56° - 23° (56° - 23°) Diagonal: 140° - 47° (119° - 45°)	CPU	2 x Ambarella CV72S66
Sensor movement	Tilt: +25° to +90° from horizon Pan: +/- 180° Rotation: +/- 90° for each lens		

Standard video settings

Compression	H.265, H.264	Historical video settings	Adaptive quality ¹
Frame rate³	24fps / sensor	WDR technology	True WDR, dual exposure
Live streaming settings (per head)	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	16ft / 5m

Power and network

Power input⁴	IEEE 802.3bt Type 3 PoE++	Connectivity	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
Power consumption⁴	With IR: 43-57V, 0.82-0.69A, 35.0W Without IR: 37-57V, 0.51-0.33A, 19.0W Extended temperature range: 43-57V, 1.20-0.90A, 51.0W	RTSP	RTSP 1.0 RFC 2326 Max concurrent streams: 8 (2 per camera head) Audio: supported

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 14°F / -10°C and assumes IR will be enabled.



CH63-E-G

Tech specs

General

Operating temperature	-40°F to 122°F / -40°C to 50°C	LED indicators	System power and status indicator, debug indicator
Humidity	0 to 90%	Warranty	10 years
Certifications	For hardware certification information, please visit verkada.com/compliance	Included accessories	T10 security screwdriver, mount plate, 4x wall mount screws, 4x wall anchors, 2x desiccants, conduit adapter, large cable gland

Mechanical

Weight	Camera: 120.81oz / 3425g Mount plate: 18.62oz / 528g	Body	Aluminum
Dimensions	D: 10.32in / 262.0mm H: 4.61in / 117.0mm with mount plate H: 4.53in / 115.0mm without mount plate		

Dimensions



Software capabilities

Alerts⁵	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, line-crossing detection, loitering detection, AI-powered alerts	Streaming and storage⁵	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
People analytics⁵	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	Sharing and privacy⁵	Live links, live face blur, privacy regions, audit log
Vehicle analytics⁵	Vehicle search, attribute search, motion search, trajectory analysis, occupancy trends, AI-powered search		

5. All the listed features can be enabled independently for each camera head.



Ordering information

CH63-E-G pricing

Model number	MP ¹	WDR	Lens	IR range	Onboard storage	Maximum SQ onboard retention ¹	People/vehicle analytics	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
CH63-2TBE-HW-G	4 x 4K	✓	Zoom	98ft / 30m	2TB	30 Days	✓	\$5,599	\$5,399
CH63-4TBE-HW-G	4 x 4K	✓	Zoom	98ft / 30m	4TB	60 Days	✓	\$9,999	\$9,799
CH63-6TBE-HW-G	4 x 4K	✓	Zoom	98ft / 30m	6TB	90 Days	✓	\$14,399	\$14,199
CH63-8TBE-HW-G	4 x 4K	✓	Zoom	98ft / 30m	8TB	120 Days	✓	\$18,799	\$18,599

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 software license pricing (new/capacity increase)²

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-CAM-MLT4-1Y-CAP	Verkada 1-Year Four-Camera Multisensor License, Capacity Increase	\$699	\$699
LIC-CAM-MLT4-3Y-CAP	Verkada 3-Year Four-Camera Multisensor License, Capacity Increase	\$1,949	\$1,949
LIC-CAM-MLT4-5Y-CAP	Verkada 5-Year Four-Camera Multisensor License, Capacity Increase	\$3,249	\$3,249
LIC-CAM-MLT4-10Y-CAP	Verkada 10-Year Four-Camera Multisensor License, Capacity Increase	\$6,499	\$6,499
LIC-CAM-MLT4-1Y-CAP-G	Verkada 1-Year Four-Camera Multisensor License for Government, Capacity Increase	\$899	\$899
LIC-CAM-MLT4-3Y-CAP-G	Verkada 3-Year Four-Camera Multisensor License for Government, Capacity Increase	\$2,499	\$2,499
LIC-CAM-MLT4-5Y-CAP-G	Verkada 5-Year Four-Camera Multisensor License for Government, Capacity Increase	\$3,999	\$3,999
LIC-CAM-MLT4-10Y-CAP-G	Verkada 10-Year Four-Camera Multisensor License for Government, Capacity Increase	\$8,099	\$8,099

Video Security software license pricing (renewal)²

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-CAM-MLT4-1Y-RNW	Verkada 1-Year Four-Camera Multisensor License, Renewal	\$699	\$699
LIC-CAM-MLT4-3Y-RNW	Verkada 3-Year Four-Camera Multisensor License, Renewal	\$1,949	\$1,949
LIC-CAM-MLT4-5Y-RNW	Verkada 5-Year Four-Camera Multisensor License, Renewal	\$3,249	\$3,249
LIC-CAM-MLT4-10Y-RNW	Verkada 10-Year Four-Camera Multisensor License, Renewal	\$6,499	\$6,499
LIC-CAM-MLT4-1Y-RNW-G	Verkada 1-Year Four-Camera Multisensor License for Government, Renewal	\$899	\$899
LIC-CAM-MLT4-3Y-RNW-G	Verkada 3-Year Four-Camera Multisensor License for Government, Renewal	\$2,499	\$2,499
LIC-CAM-MLT4-5Y-RNW-G	Verkada 5-Year Four-Camera Multisensor License for Government, Renewal	\$3,999	\$3,999
LIC-CAM-MLT4-10Y-RNW-G	Verkada 10-Year Four-Camera Multisensor License for Government, Renewal	\$8,099	\$8,099

2. Four-camera multisensors require a separate license from other Verkada cameras.



Accessories

Recommended accessories

Model number	Description
ACC-MNT-ARM-1	Verkada Arm Mount
ACC-MNT-CORNER-1	Verkada Corner Mount
ACC-MNT-HPEND-1	Verkada Four-Camera Multisensor Pendant Cap Mount
ACC-MNT-HREC-1	Verkada Four-Camera Multisensor Recessed Ceiling Mount
ACC-MNT-POLE-1	Verkada Pole Mount
ACC-MNT-XLARM-1	Verkada Large Arm Mount
ACC-POE-90W-AU	Verkada 90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Australia Type I Plug
ACC-POE-90W-EU	Verkada 90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Europe Type F Plug
ACC-POE-90W-NA	Verkada 90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, North America Type B Plug
ACC-POE-90W-UK	Verkada 90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, United Kingdom Type G Plug