

## CH63-E Four-Camera Multisensor

# 4K Coverage in All Directions From a Single Install Point



### Overview

The CH63-E 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 30 meters / 98 feet of IR range, enable vivid and highly-detailed image quality in varied lighting conditions. The CH63-E 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's redesigned housing, 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 features a single tool install, a latch-based cable gland for easy PoE threading, a three-LED status light indicator, and alignment presets that guide each lens into optimal positions for common viewing angles.

### Key features

#### Superior image quality

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

#### Expansive coverage

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

#### Advanced analytics

- Onboard CV72S Ambarella processor enables people and vehicle analytics
- AI-powered search and AI-powered alerts
- Occupancy trends for operational insight

#### Durability and weather protection

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

#### 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

#### Streamlined installation

- Single PoE+ cable required
- Latch-based cable gland for easy PoE threading
- Alignment presets for optimal lens positioning
- Physical and digital mute switches to easily enable or disable audio



## CH63-E

### Tech Specs

#### Camera features

<b>Image Sensor</b>	4 x 1 / 2.8" Progressive CMOS	<b>Shutter Speed</b>	1 / 30 sec. to 1 / 10,000 sec.
<b>Sensor Resolution<sup>1</sup></b>	4 x 4K (3856 x 2228)	<b>Day/Night</b>	IR-cut filter for day and night function
<b>Lens Type</b>	Varifocal; motorized zoom	<b>IR Cut Filter</b>	Yes
<b>Focal Length</b>	3.18 - 8.12mm	<b>IR Range</b>	30m / 98ft; non-adjustable
<b>Aperture</b>	F1.9 - F3.24	<b>Minimum Illumination</b>	0.009 lux @ F1.9 (color) 0 lux with IR Illuminators on
<b>Iris</b>	N/A	<b>Onboard Storage</b>	Capacity: From 1TB to 8TB Card: MicroSD, SDXC
<b>Field of View (after LDC<sup>2</sup>)</b>	Horizontal: 112° - 42° (104° - 40°) Vertical: 56° - 23° (56° - 23°) Diagonal: 140° - 47° (119° - 45°)	<b>CPU</b>	2 x Ambarella CV72S66
<b>Sensor Movement</b>	Tilt: +25° to +90° from horizon Pan: +/- 180° Rotation: +/- 90° for each lens		

#### 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 / sensor	<b>WDR Technology</b>	True WDR, dual exposure
<b>Live Streaming Settings (Per Head)</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 / 16ft

#### Power and network

<b>Power Input<sup>4</sup></b>	IEEE 802.3bt Type 3 PoE++	<b>Connectivity</b>	RJ-45 cable connector for network/PoE connection; 10 / 100 / 1000 Mbps
<b>Power Consumption<sup>4</sup></b>	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	<b>RTSP</b>	RTSP 1.0 RFC 2326 Max concurrent streams: 8 (2 per camera head) 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.



## CH63-E

### Tech Specs

#### General

<b>Operating Temperature</b>	-40°C to 50°C / -40°F to 122°F	<b>LED Indicator</b>	System power, status indicator and debug indicator
<b>Humidity</b>	0 to 90%	<b>Warranty</b>	10 Years
<b>Certifications</b>	FCC, ICES, VCCI, UL/cUL 62368-1, IP66/67 weather rating, IK10 impact rating, FY2019 NDAA compliant	<b>Included Accessories</b>	T10 security screwdriver, mount plate, 4x wall mount screws, 4x wall anchors, 2x desiccants, conduit adapter, large cable gland

#### Mechanical

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

#### Dimensions



#### Software capabilities

<b>Alerts<sup>5</sup></b>	Camera status, motion detection, people detection, vehicle detection, person of interest detection, crowd detection, line-crossing detection, loitering detection, AI-powered alerts	<b>Streaming and Storage<sup>5</sup></b>	Cloud backup, configurable retention days, selectable storage location, low bandwidth mode, timelapse, RTSP
<b>People Analytics<sup>5</sup></b>	People search, attribute search, face search, occupancy trends, motion search, trajectory analysis, selective face blurring, AI-powered search	<b>Sharing and Privacy<sup>5</sup></b>	Live links, live face blur, privacy regions, audit log
<b>Vehicle Analytics<sup>5</sup></b>	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 pricing

Model Number	MP <sup>1</sup>	WDR	Lens	IR Range	Onboard Storage	Maximum SQ Onboard Retention <sup>1</sup>	People/ Vehicle Analytics	Cost (MSRP) <sup>USD</sup>
CH63-2TBE-HW	4 x 4K	✓	Zoom	30m / 98ft	2TB	30 Days	✓	\$4,199
CH63-4TBE-HW	4 x 4K	✓	Zoom	30m / 98ft	4TB	60 Days	✓	\$6,799
CH63-6TBE-HW	4 x 4K	✓	Zoom	30m / 98ft	6TB	90 Days	✓	\$9,399
CH63-8TBE-HW	4 x 4K	✓	Zoom	30m / 98ft	8TB	120 Days	✓	\$12,099

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)<sup>2</sup>

Model Number	Description	Cost (MSRP) USD
LIC-CAM-MLT4-1Y-CAP	1-Year Four-Camera Multisensor License, Capacity Increase	\$599
LIC-CAM-MLT4-3Y-CAP	3-Year Four-Camera Multisensor License, Capacity Increase	\$1,649
LIC-CAM-MLT4-5Y-CAP	5-Year Four-Camera Multisensor License, Capacity Increase	\$2,699
LIC-CAM-MLT4-10Y-CAP	10-Year Four-Camera Multisensor License, Capacity Increase	\$5,399

### Video Security Cloud License pricing (Renewal)<sup>2</sup>

Model Number	Description	Cost (MSRP) USD
LIC-CAM-MLT4-1Y-RNW	1-Year Four-Camera Multisensor License, Renewal	\$599
LIC-CAM-MLT4-3Y-RNW	3-Year Four-Camera Multisensor License, Renewal	\$1,649
LIC-CAM-MLT4-5Y-RNW	5-Year Four-Camera Multisensor License, Renewal	\$2,699
LIC-CAM-MLT4-10Y-RNW	10-Year Four-Camera Multisensor License, Renewal	\$5,399

2. The CH63-E requires a separate license from other Verkada Cameras.



## Ordering Information

### Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-MNT-ARM-1	Arm Mount	\$99
ACC-MNT-CORNER-1	Corner Mount	\$199
ACC-MNT-HPEND-1	Four-Camera Multisensor Pendant Cap Mount	\$139
ACC-MNT-POLE-1	Pole Mount	\$209
ACC-MNT-XLARM-1	Large Arm Mount	\$159
ACC-POE-90W-AU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Australia Type I Plug	\$169
ACC-POE-90W-EU	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, Europe Type F Plug	\$169
ACC-POE-90W-NA	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, North America Type B Plug	\$169
ACC-POE-90W-UK	90W PoE++ (802.3bt Type 4) Injector, GigE, Indoor, United Kingdom Type G Plug	\$169



## 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