

CR63-E Remote Camera with LTE

Easily monitor areas
without power or internet



Overview

The CR63-E remote camera is quick to deploy and easy to move, providing coverage even in areas that lack power or internet. It has a built-in battery and LTE modem and supports various power supplies, including solar.

If continuous power is available, the CR63-E can be hardwired via included AC and passive PoE adapters.¹ For deployments in areas without existing power infrastructure, a solar panel and one or more backup batteries can be used. A built-in LTE modem simplifies install without the need for a standalone cellular gateway.

The CR63-E provides 24/7 streaming and impeccable image quality with 4K resolution and optical zoom. An onboard CV75S Ambarella processor supports advanced analytics like [AI-powered search](#), [AI-powered unified timeline](#), line crossing, loitering, person of interest (POI) alerts, and [license plate recognition](#) (LPR).

With sealed interior components and IP66/IP67 weather and IK10 impact ratings, the CR63-E withstands extreme temperatures and excessive precipitation, allowing it to be deployed in a variety of indoor or outdoor environments.

Key features

Various power supply options

- Passive PoE,¹ DC, and power tap adapters
- External backup battery
- 100W solar panel

Excellent image quality

- 4K resolution
- 1 / 1.2" progressive CMOS image sensor
- Varifocal lens with 2.25x optical zoom
- 66ft / 20m of IR range for nighttime viewing

Built-in LTE connectivity

- Built-in LTE modem to provide connectivity in areas without internet
- Choose between Verkada's data plan or bring your own

Advanced analytics

- Onboard CV75S Ambarella processor enables people and vehicle analytics
- License plate recognition capabilities capture license plates at speeds up to 80 mph / 128 kph
- AI-powered search and AI-powered alerts
- Occupancy trends for operational insights

Hybrid cloud architecture

- Onboard storage and processing for reduced bandwidth consumption and coverage at scale
- 30 - 120 days (512GB - 3TB) of onboard storage
- Redundant cloud backup and unlimited cloud-based archiving of footage

¹. PoE pigtail must be used with 48-57V passive PoE



Verkada data plan

Verkada takes away the challenge of working with cell carriers with our hassle-free data plan, which works out of the box in many countries across the world.

Key benefits

Instant connectivity out of the box

As soon as it receives power, the CR63-E's built-in modem will automatically connect to a carrier using the pre-inserted Verkada SIM card – it just works.

Unlimited data

Unlike most carriers, which throttle your speed after a certain threshold, Verkada offers truly unlimited data.

Country/region

US

Multi-carrier redundancy

The Verkada SIM card works across major carriers, allowing the CR63-E to automatically switch carriers if the current network is down.

24/7 support

Enjoy the quick and easy 24/7 customer support that you've come to expect from Verkada.

Carriers used

Verizon, AT&T, T-Mobile

Bring your own data plan

Customers also have the option to bring their own data plan. For a list of carriers that have been tested and verified by Verkada, please refer to the [knowledge base article](#).

Always connected

Customers can insert their own SIM card in one slot while keeping the Verkada SIM in the other slot for automatic failover. If the customer-provided SIM fails, the Verkada SIM helps ensure that the camera is always reachable.

Flexible configuration

Customers may also use their own SIM cards in both slots. In this case, customers can configure one slot as the primary SIM and use the other for automatic failover if needed.



CR63-E

Tech specs

Camera features

Image Sensor	1 / 1.2" Progressive CMOS	Shutter Speed	1 / 30 sec. to 1 / 10,000 sec.
Sensor Resolution¹	4K (3840 x 2160)	Day/Night	IR-cut filter for day and night function
Lens Type	Varifocal; motorized zoom (2.25x)	IR Cut Filter	Yes
Focal Length	5.9 - 13.3mm	IR Range	20m / 66ft; non-adjustable
Aperture	F1.5 - F2.9	Minimum Illumination	0.009 lux @ F1.9 (Color) 0 lux with IR Illuminators on
Iris	P-Iris	Onboard Storage	Capacity: From 512GB to 3TB Card: MicroSD, SDXC
Field of View (after LDC²)	Horizontal: 109° - 49° (102° - 47°) Vertical: 58° - 28° (58° - 27°) Diagonal: 113° - 55° (107° - 53°)	CPU	Ambarella CV75S88
Sensor Movement	Tilt: 0° to 90° Pan: 360° Rotation: 360°		

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 4,500 Kbps (default) Standard quality (SQ): Up to 600 Kbps
RTSP	Not supported		

Standard audio settings

Audio	Supported	Interface	Built-in microphone
Audio Capacity	One-way audio	Effective Range	5m / 16ft

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.



CR63-E

Tech specs

Power

Power Input	MC4 Pigtail for Solar Panel RJ45 for Passive POE DC Power Adapter	Power Consumption	54VDC, 1.2A, 65W Barrel Jack (6.5/3mm OD/ID) 48-57V, 1.35-1.14A, 65W Passive POE 16-40V 6-2.4A, 96W, DC Solar input
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Cellular

Connectivity	LTE cellular CAT 6	MIMO	2x2 DL MIMO
SIM	2 SIM slots (Nano 4FF) Dual SIM/auto SIM failover	Bands	B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B38, B39, B40, B41, B42, B43, B48 (CBRS), B66, B71
Carriers	Verizon, AT&T, T-Mobile		

General

Operating Temperature	-40°C to 50°C / -40°F to 122°F	LED Indicator	1 status LED, 2 SIM indicator LEDs, 4 signal strength LEDs
Humidity	0 to 90%	Warranty	5 Years
Certifications	IK10 impact rating, IP66/IP67 weather rating, FY2019 NDAA compliant	Included Accessories	Mount plate, pole mount, T10 Torx security screwdriver, T25 Torx security allen key, 4x M4 x 25mm PH2, 4x wall anchors, MC4 pigtail, PoE pigtail, barrel jack pigtail, 2x small pole straps, 2x large pole straps, 1x Verkada SIM card



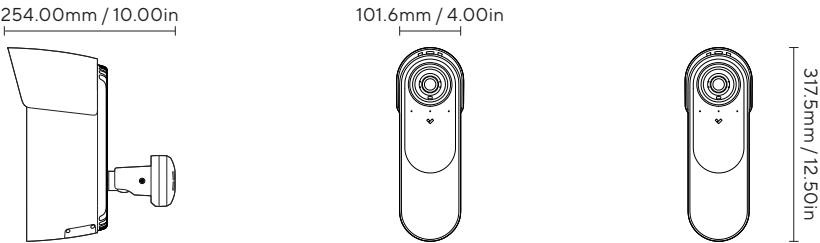
CR63-E

Tech specs

Mechanical

Weight	3700g / 130.51oz	Body	Plastic casing with aluminum base and ball joint
Dimensions	L: 254.0mm / 10.00in W: 101.6mm / 4.00in H: 317.5mm / 12.50in		

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
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	License Plate Recognition	License plate of interest alerts, license plate indexing



Ordering information

CR63-E 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}
CR63-512E-HW	4K	✓	Zoom	66ft / 20m	512GB	30 Days	✓	\$4,099	N/A
CR63-1TBE-HW	4K	✓	Zoom	66ft / 20m	1TB	60 Days	✓	\$5,499	N/A
CR63-2TBE-HW	4K	✓	Zoom	66ft / 20m	2TB	90 Days	✓	\$7,699	N/A
CR63-3TBE-HW	4K	✓	Zoom	66ft / 20m	3TB	120 Days	✓	\$9,899	N/A

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)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-CAM-1Y-CAP	Verkada 1-Year Camera License, Capacity Increase	\$249	\$249
LIC-CAM-3Y-CAP	Verkada 3-Year Camera License, Capacity Increase	\$659	\$659
LIC-CAM-5Y-CAP	Verkada 5-Year Camera License, Capacity Increase	\$1,099	\$1,099
LIC-CAM-10Y-CAP	Verkada 10-Year Camera License, Capacity Increase	\$2,199	\$2,199

Video Security software license pricing (renewal)

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-CAM-1Y-RNW	Verkada 1-Year Camera License, Renewal	\$249	\$249
LIC-CAM-3Y-RNW	Verkada 3-Year Camera License, Renewal	\$659	\$659
LIC-CAM-5Y-RNW	Verkada 5-Year Camera License, Renewal	\$1,099	\$1,099
LIC-CAM-10Y-RNW	Verkada 10-Year Camera License, Renewal	\$2,199	\$2,199



Ordering information

Verkada data plan license pricing (new/capacity increase)

Each data plan license includes unlimited data for one video device.

Customers bringing their own SIM/data plan do not need to purchase data plan licenses.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-GC-1VD-1Y-CAP	Verkada 1-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Capacity Increase	\$599	\$599
LIC-GC-1VD-3Y-CAP	Verkada 3-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Capacity Increase	\$1,799	\$1,799
LIC-GC-1VD-5Y-CAP	Verkada 5-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Capacity Increase	\$2,999	\$2,999

Verkada data plan license pricing (renewal)

Each data plan license includes unlimited data for one video device.

Customers bringing their own SIM/data plan do not need to purchase data plan licenses.

Model number	Description	US cost (MSRP) ^{USD}	WW cost (MSRP) ^{USD}
LIC-GC-1VD-1Y-RNW	Verkada 1-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Renewal	\$599	\$599
LIC-GC-1VD-3Y-RNW	Verkada 3-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Renewal	\$1,799	\$1,799
LIC-GC-1VD-5Y-RNW	Verkada 5-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Renewal	\$2,999	\$2,999



Accessories

Recommended accessories

Model Number	Description
ACC-ADAP-54V-NA	Verkada AC/DC Barrel Jack Power Adapter, 54V, Indoor, North America Type B Plug
ACC-BAT-430WH-E-1	Verkada 430Wh Backup Battery for CR Camera
ACC-MNT-SOLP-1	Verkada Solar Panel Pole Mount
ACC-POLE-1	Verkada 12.0ft / 3.7m Above Grade Pole for Use with CR Camera and Accessories
ACC-SOLP-100W-1	Verkada 100 Watt Solar Panel
ACCX-TAP-DC100-E	Verkada FP AC/DC 7-Pin Power Tap, 100W PoE Output, Outdoor, Model Number: FP287A-180-BEN-A