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
- 20m / 66ft 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.

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.

Unlimited data

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

24/7 support

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

Country/region

US

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 Resolution[1]	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 LDC[2]**)**	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 Rate[3]	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

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

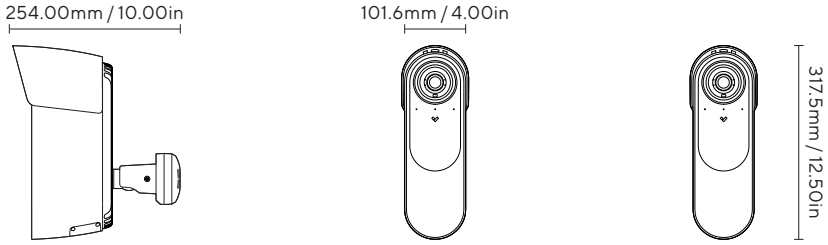
Operating Temperature	-40°C to 50°C / -40°F to 122°F	**LED Indicator**	1 status LED, 2 SIM indicator LEDs, 4 signal strength LEDs
Humidity	0 to 90%	**Warranty**	5 Years
Certifications	IK10 impact rating, IP66/IP67 weather rating, FY2019 NDAA compliant	**Included Accessories**	Mount plate, pole mount, 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	Cost (MSRP) USD
CR63-512E-HW	4K	✓	Zoom	20m / 66ft	512GB	30 Days	✓	$3,499
CR63-1TBE-HW	4K	✓	Zoom	20m / 66ft	1TB	60 Days	✓	$4,299
CR63-2TBE-HW	4K	✓	Zoom	20m / 66ft	2TB	90 Days	✓	$5,399
CR63-3TBE-HW	4K	✓	Zoom	20m / 66ft	3TB	120 Days	✓	$6,699

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

Cellular Data Plan (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	Cost (MSRP) USD
LIC-GC-1VD-1Y-CAP	1-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Capacity Increase	$999
LIC-GC-1VD-3Y-CAP	3-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Capacity Increase	$2,997
LIC-GC-1VD-5Y-CAP	5-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Capacity Increase	$4,995

Cellular Data Plan (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	Cost (MSRP) USD
LIC-GC-1VD-1Y-RNW	1-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Renewal	$999
LIC-GC-1VD-3Y-RNW	3-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Renewal	$2,997
LIC-GC-1VD-5Y-RNW	5-Year Cellular Gateway Data Plan, Includes Unlimited Data for 1 Verkada Video Device, Renewal	$4,995

Ordering Information

Accessories pricing

Model Number	Description	Cost (MSRP) USD
ACC-ADAP-54V-NA	AC/DC Barrel Jack Power Adapter, 54V, Indoor, North America Type B Plug	$89
ACC-BAT-430WH-E-1	430Wh Backup Battery for CR Camera	$1,399
ACC-MNT-SOLP-1	Solar Panel Pole Mount	$499
ACC-POLE-1	12ft / 3.7m Above Grade Pole for Use with CR Camera and Accessories	$999
ACC-SOLP-100W-1	100 Watt Solar Panel	$269
ACCX-TAP-DC100-E	FP AC/DC 7-Pin Power Tap, 100W PoE Output, Outdoor, Model Number: FP287A-180-BEN-A	$399

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