ROAM SURVEILLANCE

RoamView Mini

Mobile Surveillance Trailer

PRODUCT SPECIFICATION SHEET



PRODUCT OVERVIEW

The RoamView Mini is a compact, rapidly deployable mobile surveillance trailer purpose-built for residential construction sites and smaller job sites where a simplified, cost-effective solution is required. It delivers essential remote monitoring capability — solar-powered, LTE-connected, and towable by any standard pickup — without the complexity of a full enterprise system.

Monitor live from anywhere using the Reolink app on your smartphone or tablet. No on-site internet infrastructure required.

SYSTEM SPECIFICATIONS

CAMERA SYSTEM

Model	Reolink TrackMix LTE
Resolution	4K 8MP Ultra HD — Dual lens (wide-angle + telephoto)
Pan / Tilt	355° pan, 90° tilt — full 360° site coverage
Zoom	6x hybrid zoom with auto-zoom subject tracking
Connectivity	4G LTE — SIM card slot (carrier-unlocked, any compatible data plan)
Night Vision	Color night vision (spotlight) + IR black-and-white night vision

Detection	Person, vehicle, and animal smart detection
Remote Access	Reolink App (iOS & Android) — live view, PTZ control, playback, alerts
Weather Rating	IP65 weatherproof
Mounting	Custom fabricated aluminum camera mount — top of mast

POWER SYSTEM

Solar Panel	Renogy 200W 12V Monocrystalline — N-Type 16BB, 25% efficiency, IP65 junction box
Daily Output	~1,000 Wh/day (5–6 hrs direct sunlight), 25-yr 80% output warranty
Charge Controller	Renogy Wanderer Li 30A PWM — 12V, lithium-compatible, 4-stage charging
Controller Protection	Overcharge, over-discharge, short-circuit, overload, reverse polarity protection
Battery	Rich Solar Alpha 2 Pro — 12V 200Ah LiFePO4 (lithium iron phosphate)
Battery Features	UL-certified, built-in heater for cold-weather operation, BMS protection
Battery Monitor	Victron BMV-712 Smart — Bluetooth, state of charge, voltage, amp-hours, runtime
Shore Power	Powermax PM3-55 Converter/Charger — 110VAC to 12VDC, 55A, 3-stage smart charging
Shore Power Input	105–130 VAC input, 13.6–14.4 VDC output, UL/CUL certified

TRAILER & MAST

Mast	Heavy-duty telescoping aluminum mast (same as Legacy RoamView) — winch-operated
Trailer Frame	Single-axle steel frame with powder coat finish
Stabilizers	4-point leveling jacks — front and rear
Hitch	2" ball mount with safety chain and breakaway
Tires	All-terrain off-road tire on bronze alloy wheel
Enclosure	Aluminum Box Enclosure — houses all electronics, battery, and power components
Tow Vehicle	Any standard pickup or SUV with 2" hitch receiver

PRODUCT GALLERY


ROVER
ROAM


ROVER
ROAM




reolink



KEY FEATURES

- Reolink TrackMix LTE — 4K 8MP dual-lens camera with auto-zoom subject tracking
- 4G LTE built-in — SIM card slot works on any compatible carrier, no Wi-Fi needed on-site
- 355° pan, 90° tilt, 6x hybrid zoom — full perimeter coverage from a single unit
- Person, vehicle, and animal smart detection with push alerts to your phone
- 200W Renogy solar panel with 25% N-Type efficiency keeps the system charged all day
- 200Ah heated LiFePO4 battery — reliable in cold weather, rated for thousands of cycles
- Victron BMV-712 battery monitor — real-time state of charge and runtime via Bluetooth app
- Powermax 55A shore power inlet — plug into site power when available to charge overnight
- Compact single-axle design — easy to tow, position, and deploy without heavy equipment
- Lockable aluminum enclosure protects all components from weather and tampering

IDEAL USE CASES

Residential Construction	Monitor active build sites for theft, vandalism, and unauthorized access
Land & Property	Remote parcel monitoring, farm security, gate access areas
Contractor Equipment Yards	Overnight monitoring of staging areas, tools, and materials
Short-Term Deployments	Temporary coverage for events, seasonal operations, or project sites
Insurance & Liability	Visual documentation of site conditions and activity