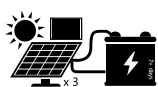




Solar-powered Mobile Surveillance Trailer

Key Features

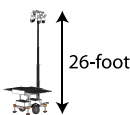
- Three 460W solar panels generate 1,380W total
- Four 230Ah batteries provide 11.8 kWh at 48V, supporting 7–10 days runtime
- 8-meter hand-operated mast enables tool-free, single-person deployment
- 4-channel embedded computer records to 4TB storage, supports cameras up to 16MP
- 4G LTE with built-in eSIM connects to TitanCloud for remote monitoring and GPS tracking
- IP67-rated enclosures and C5-I corrosion class withstand harsh industrial and marine conditions
- Operating range spans 0°C to +60°C, rated for Level 12 wind resistance
- Trailer weighs under 780 kg, towable by standard vehicles, and is NDAA compliant with FCC/IC certification



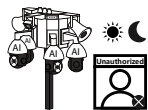
Solar power with 7+ days of battery backup (no fuel deliveries)



4G/5G cellular connectivity (works without WiFi)



26-foot mast for wide site coverage



AI cameras with motion detection (day and night)



Talk Down speaker for live agent warnings



24/7 monitoring



Two-hour deployment time



Rugged trailer built for jobsite terrain



License Plate Recognition (LPR) camera (optional add-on)



★★★★★
NDAA
COMPLIANT

Specifications

General

System Voltage	48 VDC	Running time	6.9 Days (71 W) — load basis: 4 x Video surveillance, 1 x NVR, 3 x Red and blue warning lights (3 x 3 W), 1 x Fill-in light (8 W), 2 x Speaker (12 W)
PV Controller	MPPT 30A, 96.9%	Anticorrosion grade	C5 (chassis), C4 (Electrical Box, Storage Box, PV Support Structure)
IP Rating	IP67	The roof rack includes	3 x Strobe Lights, 2 x Speakers, 1 x 4G Router, 1 x Fill Light, 1 x Power Supply Board (DC 48 V & DC 12 V), 1 x Edge Controller, 1 x 4 TB Hard Drive
Control	Remote Control	Warranty	2 years (chassis, PV, Battery, PV Support Structure)
Battery Supply	Solar Power, Mains Electricity		
Charge Time	26 Hours (AC)		

4G CPE

4G	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B17/B18/B19/B20/B25/B26/B28/B66	Power	12V DC 1A
	LTE TDD: B34/B38/B39/B40/B41	Operating Temperature	−30 °C to 70 °C (−22 °F to 158 °F)
SIM	1.8V/3V SIM/UIM Cards Built-In 15kV ESD protection	Power Consumption	2.88 W (Max.)
Port	LAN: Two (2) RS-485/RS-232: One (1)	LAN Protocol	ARP, Ethernet
		WAN Protocol	IP, DHCP, PPPoE

PV Controller

Nominal System Voltage	48 VDC	Relative Humidity	≤ 95%
Working Voltage Range	8 to 68 VDC	Self-Consumption	≤ 0.624%
Communication	RS-485 (RJ45 5 VDC/200 mA)	Certifications	TUV, CE

Solar Panel

Number of Panels	Three (3)	Operating Temperature	−40 °C to 80 °C (−40 °F to 185 °F)
Solar Cell Type	Monocrystalline Silicon	Dimensions	1757.0 mm x 1134.0 mm x 30.0 mm (69.2 in. x 44.6 in. x 1.2 in.)
Wattage	460 W per Panel	Weight	3x21.5 kg (3x47.4 lb)
Voltage Range	10 to 40.9 VDC		
Energy Efficiency	23.80%		

Battery

Type	Lithium Iron Phosphate	Weight	88 kg
Voltage per Battery	51.2 V	Life Cycle	@25°C, 0.5C, 80% DOD >=5000 Cycle
Capacity	51.2 V 230 Ah, 11.776 kWh	Certification	UN38.3/MSDS/UN3481
Operating Temperature (Charge)	0 °C to 60 °C		
Operating Temperature (Discharge)	-20 °C to 60 °C		

Mast

Height	8.0 m (26.0 ft), Retractable	Coating	Electrophoretic Preservative
Control	Hand-Operated	Material	Aluminum Alloy
Wind resistance (Rope fastening)	Level 12		

AC Charging

Voltage Range	90 to 264 VAC, 127 to 370 VDC	Rated Efficiency	93%
Frequency Range	47 to 63 Hz	Power factor	>0.98
Power	450 W	Operating Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
Output Voltage	42 to 80 VDC (Adaptable)	Charging Protection	Low Voltage, Over Current, Over Voltage, Short Circuit, Over Temperature
Output Current	6.8 A	Certification	UL, TUV, EAC, CE, CB

Trailer

Trailer	US Standard, Ball Hitch, Single Axle, Manual Outrigger, 4 pin to plug (standard equipped with 7-core and 7-to-4-core cable)		
Trailer Coupler	Suitable for ø50 mm trailer ball	Electronic Braking System	1 x 7-core electronic cable, 1 x 7-to-4 core electronic cable
Lunette ring (alternative to trailer coupler)	ø70 mm	Hand Brake	Yes
Speed Limit	Standard: 80 km/h (50 MPH) Maximum: 100 km/h (62 MPH)	Aluminum rim, 175R13	Yes
		4 Support legs	Yes — can jack up the tire to assist tire replacement

Anti-theft measure

Mask anti-passer-by action	Yes
PV bracket anti-passer-by action	Yes
Control box anti-theft	Yes
Trailer support foot anti-theft	Yes
GPS positioning	Yes

Packing

Equipment dimensions	3087.0 mm x 3464.0 mm x 7941.0 mm (121.5 in. x 136.4 in. x 312.6 in.)
Packaging Dimenions	2200.0 mm x 1600.0 mm x 2389.0 mm (86.6 in. x 63.0 in. x 94.1 in.)
Product Weight	< 780.0 kg (< 1719.6 lb)