

MONTAVUE SOLAR TRAILER

The Montavue Solar Trailer is an all-in-one security device. Designed to be set up by one person and operate for up to 10 days between solar charges, the Montavue Solar trailer is the perfect answer to any remote security needs.



Sales@Montavue.com

(888)-508-3110

www.Montavue.com

SOLAR TRAILER

KEY FEATURES

01

All-in-One Control Interface

The solar mobile trailer seamlessly integrates with Cloud* for efficient, cloud-based recording. Users benefit from a streamlined platform where all essential functions and data are centralized. Additionally, it handles software updates automatically, removing the need for manual intervention.

02

Enhanced Cybersecurity with Cloud

Cloud* offers robust cybersecurity measures. These safeguards prevent unauthorized access, data breaches, and ensure system reliability.

03

GPS Location Security

Built-In GPS ensures the location of the solar trailer for the user's peace of mind.

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WWW.MONTAVUE.COM



ALL-IN-ONE SECURITY SOLAR TRAILER



Specifications

General

System Voltage	48 VDC	Corrosion Class	C5
PV Controller	MPPT 30A, 96.9%	Roof Rack Components	3 x Red and Blue Strobe Lights 2 x Speakers 1 x 4G Router 1 x Floodlight 1 x Power Supply Board (12/48 VDC) 1 x Edge Controller 1 x Hard Drive (4 TB)
IP Rating	IP67		
Control	Remote Control		
Battery Supply	Solar Power, Mains Electricity		Note: No cameras are included.
Charge Time	25 Hours (AC)		

Trailer Computer

System Frame	Embedded Linux System Watchdog Hard Disk Storage HDMI UHD Display IP Network Video Access	Audio Functions	Audio and Video Recording HDMI Audio Output APP Audio and Video Preview/Playback
		Audio Compression	G.711a, G.711u, PCM, G.726
Video Input	Supported Resolutions 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 960P, 720P, D1, CIF	Storage	Built-in 4 TB HDD Cloud Backup
	Max. Input Eight (8) Cameras		Recording Type: Motion Detection, Alarm, Schedule, Intelligent, General
	Access Bandwidth 256 Mbps	Power Consumption	Total Output for NVR: < 15W (No HDD) Total Output for PoE: 100 W Max. Output for One Port: 25.5 W
Video Playback	1/4/8 Simultaneous, APP		

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	FCC, UL

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 SIMUIM Cards Built-in 15KV ESD protection	Power Consumption	2.88 W (Max.)
		LAN Protocol	ARP, Ethernet
Port	LAN: Two (2) RS-485/RS-232: One (1)	WAN Protocol	IP, DHCP, PPPoE

Solar Panel

Number of Panels	Three (3)	Operating Temperature	-40 °C to 80 °C (-40 °F to 195 °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 per Panel	21.5 kg (47.4 lb)
Voltage Range	10 to 40.9 VDC	Certifications	TUV, CQC, CE
Energy Efficiency	23.80%		

Battery

Number of Batteries	Four (4)	Operating Temperature	Charge: 0 °C to 60 °C (32 °F to 140 °F) Discharge: -20 °C to 60 °C (-4 °F to 140 °F)
Cathode Material	Lithium Iron Phosphate	Weight	4 x 17.5kg (4 x 38.6lb)
Voltage per Battery	12.8 V	Life Cycle	≥ 5000 Cycle at 25 °C, 0.5 C, and 80% DOD
Capacity	4 x 220 Ah		

Mast

Height	8.0 m (26.0 ft), Retractable	Coating	Electrophoretic Preservative
Control	Hand-Operated	Material	Aluminum Alloy
Beaufort Wind Scale	Level 12 (Up to 73 mph/118 kph)		

AC Charging

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

Trailer

Trailer Coupler	Suitable for 2 in. (50 mm) Trailer Ball	Packaging Dimensions	2200.0 mm x 1600.0 mm x 2389.0 mm (86.6 in. x 63.0 in. x 94.1 in.)
Speed Limit	Standard: 80 km/h (50 MPH) Maximum: 100 km/h (62 MPH)	Product Weight	< 780.0 kg (< 1719.6 lb)
Hand Brake	One (1)	Protection Measures	• Tamper-proof, removable hand crank for mast and PV bracket • Theft-proof control box and trailer support foot • GPS positioning
Tire Type	Aluminum Rim, T5SR13		
Support Legs	Four (4)		
Product Dimensions	3087.0 mm x 3464.0 mm x 7941.0 mm (121.5 in. x 136.4 in. x 312.6 in.)		



An Upclose Look



Control Box

The mast has a control box to shield electrical components from damage. The weatherproof and waterproof box ensures the trailer's continuous operation. Attached to the box are two built-in speakers and mounts to support up to four (4) user-supplied cameras.



Integrated Electrical Box

The integrated electrical box allows for on-site configuration and wiring to save time and enhance convenience.



460-Watt Monocrystalline PERC Silicon Solar Panels

The trailer comes with three (3) 460-watt monocrystalline silicon solar panels to autonomously power itself for 7 to 10 days without sun*** The panels have PERC technology to improve electron collection and light absorption for better performance and efficiency, especially in low light.

*** Time may vary based on energy consumption.



Storage Box

The storage box is able to hold all of the assembly elements of the trailer, making transportation and deployment easy and seamless.



Built-in Floodlight and Red and Blue Flashing Lights

The built-in floodlight illuminates the area around the trailer for sufficient lighting during recording. Red and blue flashing lights act as a visual deterrent and warning to ward off any potential trespassers and perpetrators.



Rugged, Anti-Corrosive Build

The trailer is rated **C5-I** for corrosion protection, **Level 12 (Up to 73 mph)** on the Beaufort Wind Scale, and **IP67** for ingress protection. The trailer's mast is retractable, enabling flexibility and customization during setup. The mast's generous height of 8 m (26 ft) allows the installed cameras to see over obstructions and have a greater field of view.