



INVID-TTSST870G - Mobile Solar Surveillance Trailer

Self-Powered | Rapid Deployment | Remote Monitoring Platform

The INVID-TTSST870G Mobile Solar Surveillance Trailer is a compact, fully self-contained security platform built to deliver dependable surveillance where permanent power and network infrastructure aren't available. Designed for quick setup and continuous outdoor operation, this towable unit provides an elevated mounting point for cameras, communication equipment, and deterrence devices.

The system pairs dual high-efficiency solar panels with electric tilt adjustment, an 8.04kWh LFP battery with built-in heater, and a 20.7ft telescoping mast for clear sightlines and wide-area coverage. Its lighter 2,200 lb chassis makes it easy to tow, position, and relocate, ideal for construction sites, parking lots, events, and other temporary or changing environments.

As a flexible surveillance platform, the TTSST870G lets integrators choose the cameras, analytics, deterrents, and connectivity that fit each site, with an optional gasoline generator for added runtime during extended low-sun periods.

- **Self-Powered Solar Design** – Dual 435W mono-crystalline panels and an 8.04kWh LFP battery deliver continuous operation without external power.
- **Electric Panel Tilt** – Electrically adjustable panel angle (up to 60°) maximizes solar harvest with minimal effort.
- **Rapid Deployment Platform** – Tow to location, stabilize, and deploy with no trenching or wiring required.
- **Telescoping Mast for Elevated Coverage** – 20.7ft, 5-section galvanized mast improves line-of-sight and expands coverage.
- **Multi-Device Mounting Capability** – Supports up to 110 lb of cameras, communication hardware, lighting, and deterrence accessories.
- **Cold-Weather Battery Protection** – Integrated BMS and battery heater support reliable performance in low temperatures.
- **Rugged, Outdoor-Rated Construction** – Galvanized, anti-corrosion powder-coated steel withstands winds up to 72.7 mph.
- **Compact, Road-Ready Trailer** – Lightweight 2,200 lb design with electric brakes and 2" ball hitch for easy relocation.
- **Stabilizing Outriggers** – Four galvanized outriggers with bubble levels ensure secure, level placement.

Model	INVID-TTSST870G
Solar System	
Solar Panel	Mono-crystalline silicon
Rate Power	435W x 2
Open Circuit Voltage	DC39.33V
Efficiency	22.30%
Series & Parallel	2 in parallel
Angle	60°, Electric Lifting
Battery System	
Type	LFP
Capacity	DC25.6V 314Ah x 1pc, 8.04kW-h
BMS	Yes
Heater	Yes
Life	Cycle 4000 at 95% DOD, 25°C
Ambient Temperature	Charging: 32°F ~ 131°F (0°C - 55°C) Discharging: -4°F ~ 131°F (-20°C - 55°C)
Lifting System	
Type	Square, Telescopic
Material	Steel Q235, Galvanized
Height	20.7ft (6.3m)
Section	5
Wire Rope	Stainless Steel 304, 5mm
Spiral Cable	2 x Cat5e + 14 x Power Supply (7 pair)
Lifting Method	Manual Winch
Recommended Loading	11lb ~ 110lb (5kg ~ 50kg)
Windproof	72.7mph (117kph)
Trailer System	
Trailer Standard	US / AU / EU
Trailer Light	US / AU / EU
Tow Hitch	50mm / 2" Ball Type
Jockey Wheel	8" (200mm)
Axle	Single, Suspension, Electric Brake
Tire	14 inch
Outrigger	4 x Manual, Galvanized
Bubble level	4 pcs
Wheel Chock	2 pcs
Forklift Pocket	Yes
Lifting Ring	4 pcs
Control System	
Solar Controller	40A MPPT
Efficiency	95%+
Power Supply	DC12V, 24V, 48V
Protection	Yes
Remote	Optional
Charger system	
Battery Charger	600W
Charging Current	30A
Efficiency	85%
Socket	AC120V
Gasoline Generator (OPTIONAL)	
Power Output	DC 25.6V
Rate Power	1.8KW
Fule/ Tank Volume	Regular Gasoline, 50L
Fule Consumption	Less than 0.5L/h
Start/Stop Mode	Auto Start: SOC (State of Charge) at 20% Auto Stop: SOC (State of Charge) at 50%
Noise Level	Less than 65dB
Dimension	
Shipping	88 x 67 x 83in (2230 x 1690 x 2100 mm)
Transportation	139 x 65 x 114 in (3530 x 1650 x 2890 mm)
Operation	139 x 95 x 292in (3530 x 2400 x 7420 mm)
Others	
Material	Steel Q235
Powder	Outdoor + Anti-Corrosion
Weight	2200lbs (1000kg)
Strobe Light	2PCS on the camera mounting box, 2PCS on the trailer body
System Voltage	DC24V
Work Temperature	-4°F ~ 140°F (-20°C ~ 60°C)

Ordering Information

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