Solar-Hybrid Surveillance Trailer

AIBASE

July 1st - 31st, 2026

Proven power Tested in real Canadian winters

Validated by six months of continuous field testing, including in Canadian winter conditions, our solar system provides a constant power supply despite reduced light, cloud cover and freezing temperatures, with optional generator redundancy for optimal availability when needed.

Excerpt from the trailer

7.4 m telescopic mast
Deploying the device at a higher elevation provides wider coverage and an improved field of vision.

Two 435W solar panels
High-efficiency rotating panels designed for optimal capture of sunlight.

Universal compatibility with cameras
The hexagonal mount allows up to 6 cameras to be attached for a complete 360° field of view.

Wireless connectivity
Enables flexible deployment without requiring wired network infrastructure.

Gas generator stand
To ensure continuous operation and uninterrupted monitoring even in the event of limited solar energy production.

All-season operation
Designed for reliable performance in extreme outdoor conditions. Integrated heater and fan.

High-capacity battery (8.04 kWh)
Provides sustained power during hours without sunlight for continuous monitoring.

Proven quality and expertise
Thoroughly tested to ensure product reliability, and backed by professional technical expertise.

Application scenarios


Farm


Events


Parking


Construction site


Sports website


Community

Toronto
80 Shields Court Markham, ON, L3R 9T5
1-877-966-1691

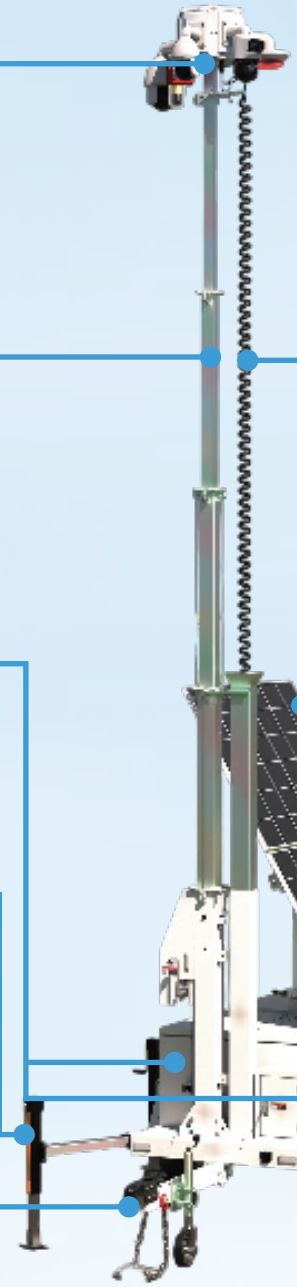
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1-877-946-6688

AMETA INTERNATIONAL CO., LTD.
Limited quantity while supplies last
www.AmetaGroup.com

Overview of system components



AIBASE Watchtower
The hexagonal bracket allows for the mounting of up to six IP cameras or speakers to provide a complete 360° field of view. Two integrated high-visibility strobe lights enhance site surveillance.

Lifting system
The galvanized steel lifting system ensures stable lifting up to 6.3 m, guaranteeing safe performance even in demanding outdoor environments.

Gasoline generator
The integrated petrol generator provides 2 kW DC backup power at 25.6 V with low fuel consumption and automatic start/stop control, ensuring continuous trailer operation and uninterrupted monitoring when solar power is limited.

4-foot stand
Four robust stabilizers keep the trailer steady for safe and level operation on rough terrain.

Trailer hitch
A standard ball-type trailer hitch allows for quick and safe towing.

The control system intelligently manages power via a high-efficiency 40A MPPT solar controller, supports 12V, 24V and 48V DC inputs and enables wireless connectivity for flexible deployment and remote mobile monitoring.

Spiral cable
The integrated spiral cable system combines data and power lines to ensure clean and reliable connectivity throughout the mast's operation.

Solar panel
The monocrystalline solar panels provide a total power of 870 W (435 W × 2) and have an electrically adjustable tilt system up to 60°.

Battery System
The LFP battery system provides a long-lasting power of 8.04 kWh with an integrated BMS and heater for continuous monitoring during hours without sunlight.

Wheels
Robust wheels with suspension and electric braking ensure smooth and controlled transport.

Specification

AIBASE-T-2P-314-GVP

Solar Panel:
- Rate Power: 435W x 2
- Panel Size: 1.95m²
- Angle: 60°, Electric Lifting

Battery:
- DC 25.6V 314Ah x 1pc, 8.04kW·h
- LPF Battery
- Battery: 4000 cycles at 95% DOD, 25°C
- BMS and heater

Generator:
- Gasoline generator with 12L internal tank
- 50L external gas tank
- Rate Power: 2KW
- 223kwh per full tank

Others:
- Remote access battery, charging and gas status by cloud portal and mobile APP
- 120V city electricity plug-in
- 4x DC 12V, 2X DC 24V, 4X DC 48V simultaneous output life

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