



As Reliable as the Sun

Solar Powered 20 Foot Sensor Trailer SPTT-2000

20 FOOT SENSOR ADVANTAGES

This versatile, maneuverable tower is designed to be customized with sensors to gather data in work zones for Intelligent Transportation System (ITS) applications.

Lightweight yet rugged, this tower can be deployed in confined spaces. The mast rises to 20 feet, allowing the sensor to be angled toward traffic to gather traffic volume and speed data.

ABOUT THE TRAILER:

The heavy duty, all steel trailer frame can be towed to any location. Built with a torsion-type axle for a smooth, stable ride. Four 2000 lb. capacity swivel jacks allow easy leveling and setup. Includes sturdy polyethylene fenders and lockable battery compartments. For additional battery theft protection, choose the Anti-Theft Battery Frame option.

The trailer is primed with a polyamide epoxy primer for rust and corrosion protection, then finished with an acrylic urethane for durability.



20' TOWER USES:

Made to customize, the 20 Foot Sensor Tower can be adapted for a wide variety of uses:

- Traffic studies
- Phased-array radar
- Security equipment
- Communications relay station
- Communications station
- Weather measurement sensors
- Wi-Fi hotspot
- Acoustic data collection
- Police traffic control
- Homeland security
- Military zones

Easy to use hand crank raises and lowers the mast. Shown with optional sensor.



www.solartechnology.com

Solar Powered 20 Foot Sensor Trailer

TRAILER

Length Operating	79 inches (200 cm)
Length Traveling	121 inches (307 cm)
Width	56 inches (142 cm)
Height Operating	8.5 feet (minimum) up to 20 feet (maximum)-(610 cm)
Height Traveling	8.5 feet (261 cm) without sensor
Ground Clearance	13 inches (33 cm) minimum
Weight	1,200 lbs. (544 kg) approx. (maximum)
Coupler (Class II)	2" (50 mm) ball or 2½" (64 mm) pintle ring
Axle/Suspension	Torq-Flex - independent
Tower Rating	Max loading: 45 lbs (21 kg) Max surface area: 4ft ² (3716 cm ²)
Winch	1000 lb. capacity automatic break-type winch
Cable	1/4" stainless steel aircraft-type cable

ENERGY SOURCE

Operating Voltage	12 volts DC (nominal)
Battery Type	6 volt heavy duty, deep cycle (GC-2)
Number of Batteries	Four(4) standard lead acid (flooded)
Battery Bank Capacity.....	520 amp hours
Battery Status Indicator	Displays full-charge, normal and low battery condition
Solar Array Construction	Trailer-mounted solar panels in aluminum frame
Solar Array Power Output ..	Up to 220 watt solar array. Can be tilted and rotated
Solar Charge Controller	Automatic, temperature compensated, MPPT (Maximum Power Point Tracking)

Truly solar-powered: Continuous, year-round, uninterrupted power source capable of providing a minimum of 440 watt-hours per day of electrical power (nominal 35 amp hours per day at 12.5 volts DC)

AVAILABLE OPTIONS

- Solar Array options -- 110, 160 or 220 watts
- Auxiliary Battery Charger --
 - 45 amp, 120 volt AC, 60 Hz
 - 55 amp, 120 volt AC, 60 Hz
 - 90 amp, 120 volt AC, 60 Hz
- Battery Upgrade:
 - Four (4) Gel Cell or AGM maintenance-free batteries
- Battery Security:
 - Anti-Theft Steel Battery Frame Bolted to Trailer
 - Vandal-Proof Battery Enclosures
- Coupler Options:
 - Removable combination coupler(2 ½" pintle & 2" ball)
 - Adjustable height coupler (2" ball and/or 3" pintle)
- Electric Brakes



20' Sensor Tower shown with optional Wavetronics SmartSensor V. Coiled wire and crank pictured below.



Custom Colors available



P/N 500-002-010 Rev. C 2022

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