

RNT-SPLT-.53K-LM30-2XN3B-PW-TLR7-2XPTZ-20X-2TB-W4G

***RENT* 30' Portable Solar Security Tower - 7.5' Trailer - (2) IP Cameras - 2TB NVR - Router/4G**

Hotspot

Product ID: 280240

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

RNT-SPLT-.53K-LM30-2XN3B-PW-TLR7-2XPTZ-20X-2TB-W4G Trailer Mounted Solar Generator Security Mast

Mast Specs

Tower Length: 9' to 30'

Stages: 5

Mast Head Length: 44"

Materials: Steel

Finish: Powder Coated - Gloss Blue

Operation: (1) 1,000lbs Hand Winch

Mast Cable: 3/16" Galvanized Aircraft Cable

Cable Sheath: Sealtight Coiled Tubing

Solar Specs

Panels: (2) 265 Watt panels

Method of Deployment: Fixed Mount

System Voltage: 12 Volts

Battery Bank: (2) 12V 8D 250aH batteries

Battery Capacity: 500aH Total / 250aH Usable

IP Camera Specs

Unit Type: (2) Security Camera

Camera Dimensions: 14.38" H x 7.12" D

Camera Weight: 9 lbs

Total Watts: 51 (Max)

Voltage: 24V AC (PoE - 802.3at)

Quick Summary

9' to 30' Mast

Steel Construction

Powder Coated Finish

Removable Mast Head

(4) 1,000lb Leveling Jacks

125 mph Wind Resistance

Manual or Optional Electric Operation

A-Frame for mounted (2) 265 Watt Solar Panels

Fully Solar, No Fuel Needed

Low Noise Operation

IP66 Waterproof Cameras

Day/Night Monitoring

De-fog Viewing (Rain and Fog)

360° Rotation, -15°~90° Tilt

492' IR Distance

Full-HD, 20x Optical Zoom

Motion Detection

CE, FCC, RoHS, UL Listed NVR

Embedded Linux Operating System

CAT5E Networking Cable

Professional Grade Router

Extended Coverage via External Antenna

Verizon 4G Hotspot

Image Sensor: CMOS

Connectors: 1.0Vp-p, 75 Ohm, BNC

Effective Pixels: 2.1 MP, 1920 x 1080 Resolution

Min. Illumination: 0.02 Lux @ F1.6 AGC On, 0 Lux w/ IR

Electronic Shutter: 1 ~ 1/10,000s

Lens: 4.7-94mm Varifocal Lens

Angle of View: 58.3° (Wide) ~ 3.2° (Tele)

Optical Zoom: 20x

Day/Night: ICR

IR Distance: 492' (850 nm)

Video Framerate: 1080p @ 30fps

Video Offload: MP4

Video Output: (1) BNC

Language: English

Ambient Temperature Range: -22°F to 149°F

Housing Materials: Aluminum

Lens Material: Polycarbonate

Mounting: Tower

NVR Specs

Device Type: Network Video Recorder

Storage Capacity: 2 TB SATA Hard Drive

Channels: 8

Camera Resolution Support: Up to 8MP

Installation Type: Plug and Play

Incoming Bit Rate: 40Mbps

Outgoing Bit Rate: 80Mbps

FPS: 60fps Per Channel

Compression Format: H.265, H.264, H.264 OVC

Recording Modes: Continuous, Schedule, Event, Motion Detection, VCA

Export Format: MP4

Video Outputs: (1) RCA, (1) VGA, (1) HDMI, (1) USB 2.0 (Front), (1) USB 3.0 (Rear)

Two-way Audio Input: 1-ch, RCA

Power Over Ethernet: = 120W, Supported Standards- 802.3af and 802.3at

Alarm Input: 4x (Rear Panel), Camera Dependent

Alarm Output: 1x (Rear Panel), Camera Dependent

Protocols: IPv4, TCP/IP, UDP, HTTP, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, ONVIF, HTTP multipart

Power Requirements: 100 ~ 240V AC

Housing Material: Aluminum

Operating Temp: 14°F ~ 131°F

Networking Cable: CAT5E

Router/Antenna Specs

Router Type: Pepwave Surf SOHO Router

WAN Interface: 1x 100/1000M Ethernet Port, 1x USB 2.0 Interface, Wi-Fi as WAN

LAN Interface: 4x 100/1000M Ethernet Ports, Simultaneous Dual-Band 11ac Wi-Fi AP

Wi-Fi AP Operating Frequency: 2412 - 2472MHz and 5180 - 5825MHz

Wi-Fi Data Rates: 3x3 MIMO, 2.4GHz: 450Mbps or 5GHz: 1300Mbps

Wi-Fi Antenna: 3x External Wi-Fi Antenna

Router Throughput: 120 Mbps

Power Input: DC Jack: 10V - 24VDC AC Adapter: AC Input 100V - 240V, DC Output 12V, 3A

Power Consumption: 26W (w/ USB WAN), 22W (w/o USB WAN)

Dimensions: 9.17" x 5.6" x 1.18"

Weight: 0.86 lbs

Humidity: 15% - 95% (Non-condensing)

External Antenna Frequency: 690~960 MHz, 1710~2170 MHz, 2500~2700 MHz

External Antenna Gain: 5dB

External Antenna Height: 12"

Trailer Specs

Materials: Steel

Trailer Dimensions: 7.5'L x 7'W trailer bed- 10.75 total length

Hitch: 2" Ball Coupler

Wiring: 7-Pin Flat

Axle: 3,500lb

Suspension: 3,500 Lb 4-Leaf Double Eye Springs

Leveling Jacks: (4) 1,000 Manual Crank Leveling Jacks

Wheels: (2) 15" 5x4.5 Steel Rims

Tires: ST205/75/D15 H188

Weight: +-600 lbs

Shipping: Common Freight

Shipping Dimensions: 8'-L x 8'-W x 12'-H

Shipping Weight: +-600 lbs

Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

This unit is for rentals

Made in the USA

The Larson Electronics RNT-SPLT-.53K-LM30-2XN3B-PW-TLR7-2XPTZ-20X-2TB-W4G solar powered security tower provides a safe and effective way for operators to quickly deploy cameras, security devices, and other equipment to elevations up to 30 feet. This solar security plant features a telescoping tower that folds over for easy transportation, a rotating boom that allows for 360° of rotation and a removable mast head for storage when not in use. This low-noise unit features two, IP outdoor cameras, router/wireless 4G hotspot access, two, 265-watt solar panels and a 400aH capacity battery bank with 200aH being usable. A 2TB NVR can be found at the base of the mast.

PLEASE NOTE: ANY FREE SHIPPING OFFERS DO NOT APPLY TO LIGHT MASTS OR LIGHT TOWERS

This trailer mounted security mast with solar generator has a 12" x 12" x 6" junction box and two, IP outdoor cameras mounted at the top of the mast. The junction box supports the security cameras for a 360° field of view and can be used with other electrical devices for each operator's specific needs, such as small sensors and monitoring devices. The junction box is mounted to the mast head via a half-moon shaped mounting plate. External seal-tite coiled tubing runs around the mast to allow operators to run Ethernet cable to the junction box at the top of the mast. The tubing connects the junction box and base solar component box together. The entire assembly is mounted onto a 7.5' single axle trailer, allowing operators to transport this portable solar tower from location to location. Operators may access a 2TB NVR for network configurations. The system, which supports wireless 4G hotspot access, utilizes CAT5E cable for networking.

Network Cameras: The security cameras provide operators with crisp, 1080p full-HD high resolution images. A 4.7-94mm varifocal lens automatically adjusts focus, providing operators with precise 20x optical zoom levels. Integrated long-range IR LEDs, with a wavelength measurement of 850 nm, enable the day/night cameras to see distances up to 492' under nighttime conditions. The units offload videos in MP4 format and features H.264 and MJPEG video compression. The PTZ cameras each measure a compact 14.38" x 7.12".

The cutting-edge security devices are designed to perform in outdoor locations and rainy conditions. The IP66-rated units resist the negative effects of non-corrosive liquids. De-fogging features enable the units to operate in rainy and foggy conditions. The devices are capable of operating in temperatures between -22°F and 149°F.

NVR: The solar tower contains an 8-channel NVR that can be used with the network cameras. Setup only takes minutes via plug-and-play, which automatically detects, displays and configures system components. With multiple recording modes (Schedule, Continuous, Motion Detection and Event) and 2TB of storage, users could capture hours of footage with ease. The remote configurable network recorder features a bit rate of 40Mbps incoming and 80Mbps outgoing at up to 60fps per channel. To maximize storage, the unit supports H.265, H.264, and H.264 OVC video compression.

The network recorder is compatible with two-way audio streaming (camera dependent) and includes 9 ethernet ports (RJ-45 interface). During recording, the unit handles the following data: activity log, email notification, event log, event notification, video analytics and event search. This device offloads videos in MP4 format. Cameras hooked

up to the NVR-POE-8CH-2TB may use power directly via PoE (802.3af / 802.3at) during operation. The NVR runs on 100 - 240VAC of power and is suitable for use in temperatures between 14°F - 131°F.

NVR Inputs: (1) RCA, 4 Sensor Inputs

NVR Outputs: (1) RCA, (1) VGA, (1) HDMI, (1) USB 2.0 (front), (1) USB 3.0 (rear)

Router/Wireless 4G Hotspot: Operators can connect to Verizon 4G internet via a professional-grade router. The unit supports dual-band 2.4 GHz (450 Mbps) and 5 GHz (1,300 Mbps), as well as 3x3 MIMO. Stateful firewall and DoS prevention ensures secure network usage during operation. Settings and configurations are controlled via a cloud-based smartphone app or web-based computer program. An external antenna is available for signal boosting and extending hotspot coverage. The antenna measures 12' and offers compatibility with the following frequencies: 690~960 MHz, 1710~2170 MHz and 2500~2700 MHz.



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Solar Powered Security Tower: This continuous-operation solar security tower includes two 265 watt solar panels, solar charging system, battery bank and manual crank up mast mounted on trailer with leveling jacks. This 0.53KW solar generator system replenishes amp hours of usable battery capacity per day, assuming 5.5 hours of peak charging sunlight. This system delivers 12 volts for equipment mounted atop the 30' telescoping mast.

Mast: This telescoping five stage steel mast from Larson Electronics is designed to allow operators to quickly and safely deploy a variety of equipment in locations where it must be elevated to heights up to 30' for effective coverage. This mast can be extended to 30' above the trailer floor for maximum area coverage, and collapsed to 9' for applications where a smaller footprint is required. The tower is constructed of square steel tubing. The mast is extended to its full height using an included 1,000lb rated hand winch with 3/16" galvanized steel cable. Junction boxes are mounted at the top of the first stage and at the very top of the mast for equipment setup, connection, and deployment.

A 44" wide and 2" by 2" by 1/4" thick mounting plate is attached to the upper section of the mast which provides a strong and stable platform for the equipped cameras. A half-moon shaped mounting plate on the top of the mast head provides a secure mounting platform for the NEMA 3R 12" x 12" x 6" junction box, where operators can mount cameras, indicator lights, and route electrical cabling. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with easy in either direction. The mast can be positioned in one of four different positions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with easy, and can typically be rotated with a single hand. The LM series of towers are powder coated with glossy blue finish for corrosion resistances and aesthetics.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. Four 1,000 lbs hand crank leveling jacks are used for leveling. The jacks can be leveled by hand crank or attachment provided for power drills. These leveling jacks can be extended 2' out from the side of the trailer

for added stability. When lowered to 9', the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.



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Solar Panel Assembly: This unit is comprised of two 265-watt solar panels, generating a total maximum output of 0.53 KW. The panels are mounted to a stationary assembly. The panels are wired to the solar charger control box which manages the charging system. The two solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake.

Component Control Center: All the electrical components are encapsulated in a NEMA 3R job box that is bolted to the trailer. Since most of these components are not rated for high heat, our component cooling system circulates air within the job box at 1400 CFM when the ambient temperature exceeds 90 degrees Fahrenheit. The job box that contains the component control system includes locks for security purposes.

Trailer Assembly: The entire assembly is mounted to a 7.5' by 7', single axle trailer via six 1/2" anchor bolts. The two wheel trailer is equipped with 3,500 lbs axle and leaf springs with 15" trailer tires. A standard 2" ball coupling, two standard safety chains, and 7-pin flat trailer plug allow for easy hookup and towing. The trailer tongue can be removed for long term deployment. A rugged and waterproof job box is included, safely secured to the trailer. Four leveling jacks mounted to the corners of the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message

sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

Frequently Asked Questions (FAQ)









RNT-SPLT-.53K-LM30-2XN3B-PW-TLR7-2XPTZ-20X-2TB-W4G

Product ID: 280240

Export Control Classification Number (ECCN): EAR99

Options:

RNT-SPLT-.53K-LM30-2XN3B-PW-TLR7-2XPTZ-20X-2TB-W4G-Rental Length

Example: RNT-SPLT-.53K-LM30-2XN3B-PW-TLR7-2XPTZ-20X-2TB-W4G-MR

Rental Length	
MONTHLY	-MR
WEEKLY	-WR
DAILY	-DR

Links (Click on the below items to view):

- [Catalog Page - Product Series](#)
- [Dimensional Drawing 2D](#)
- [Operations Manual](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
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