

**SPLT-.53K-LM30-EW-1XPTZD.30X-TLR10-W4G-BC**

**30' Portable Solar Surveillance Tower - 10' Trailer - (1) PTZ Dome Camera, 4G LTE/GPS w/  
Antenna - Electric/Manual Winch, BC**

**Product ID: 313565**

**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.**

**SPLT-.53K-LM30-1XPTZ.30X-TLR10-W4G-BC Trailer Mounted Solar Security Mast**

**Mast Specs**

**Tower Length:** 13.5` to 30` - Fold Over Mast

**Mast Head Length:** 44"

**Materials:** Steel

**Finish:** Galvanized

**Operation:** Electric Winch + Manual Handle for Emergency Loss of Power or Electric Winch Failure

**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

**Battery Tie Down:** Included

**Battery Charger:** Yes, 120V AC w/ (2) 50' SOOW Cords

**Quick Summary**

13.5` to 30` Solar Surveillance Fold Over Tower

Steel Construction

Galvanized Finish

Removable Mast Head

(5) 1,000lb Outriggers

125 mph Wind Resistance

Electric Operation

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

Fully Solar, No Fuel Needed

(1) PTZ IP Dome Camera

Battery Tie Down

4G LTE Wireless Router

1 TB NVR

GPS

**PTZ Camera Specs**

**Camera Type:** PTZ Dome Security Camera

**Camera Qty:** (1)

**Single-camera Watts:** -

**Voltage: -**

**Image Settings:** Compression, Color, Brightness, White Balance, Exposure Control, Automatic Backlight Compensation, Aspect Ratio Correction, Autofocus and Iris, WDR

**Resolution:** 1080p HD

**Min. Illumination:** 0.01 Lux @ Color and Black/White

**Modes:** Color, Black/White

**Lens:** Automatic Day/Night, Autofocus

**PTZ Speed:** Speed Decreases in Proportion to the Increasing Depth of Zoom

**Optical Zoom:** 30x Optical, 12x Digital

**Autoflip:** Included

**File Type:** MPEG-4, H.264

**Language:** English

**Ambient Temperature Range: -**

**Network Video Recorder Specs**

**Storage Capacity:** 1 TB SATA Hard Drive

**Channels:** 8

**Camera Resolution Support:** Up to 8 MP

**Installation Type:** Plug and Play

**Incoming/Outgoing Bit Rate:** : 40 Mbps/80 Mbps

**Frame Rate (fps):** 60 fps per Channel

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

**Export Format:** MP4

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

**PoE:** = 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

**Materials:** Aluminum

**Color:** Beige/Black

**Router Specs**

**Wireless Router Type:** Pepwave MAX BR1 MK2 Router w/ CAT6 LTE Advanced Modem (Wireless Access Network and Cell Network)

**WAN Interface:** (1) GE, (1) Embedded LTE-A Modem

**LAN Interface:** (1) GE

**Wi-Fi Interface:** 802.11ac/a/b/g/n 2x2 MIMO Simultaneous Dual-Band, Wi-Fi WAN & AP

**Router Throughput:** 100Mbps

**4G Bands:** FDD LTE- B1, B2, B3, B4, B5, B7, B8, B12, B13, B20, B25, B26, B29, B30, B41

**3G Bands:** WCDMA/HSPA+/DC-HSPA+ B1, B2, B3, B4, B5, B8

**Recommended Users:** 1-60

**GPS Tracking:** Built-in

**SIM Slots:** (2)

**Cellular and GPS Antenna Connector:** (2) SMA Antenna Connectors, (1) SMA GPS Antenna Connector, (2) Wi-Fi Connector

**Power Input:** DC Jack/Terminal Block: 10V – 30V DC

**Power Consumption:** 16W (Max)

**Antenna:** 6dbi Included

**Trailer Specs**

**Materials:** Steel

**Trailer Dimensions:** 10`L x 6`W (Trailer Bed) - 14`L (Tow Length)

**Trailer Footprint (w/ Outriggers Extended):** 14.65`L x 12.91`W

**Wiring:** 7-Pin Flat

**Axle:** 3,500lb

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

**Outriggers:** (5) 1,000 Manual Crank Leveling Jacks

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

**Tires:** ST205/75/D15 H188

**Hitch:** 2" Ball Coupler

**Weight:** +-1200 lbs

**Special Orders - Special Requirements**

Contact us for special requirements

**Shipping:** Common Freight  
**Shipping Dimensions:** 14`L x 10`W x 12`H  
**Shipping Weight:** +-600 lbs  
**Options:** Length- Mounting-Fixtures/ Call 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](mailto:sales@larsonelectronics.com)

### Made in the USA

The Larson Electronics SPLT-.53K-LM30-EW-1XPTZD.30X-TLR10-W4G-BC Portable Solar Surveillance Tower provides a safe and effective way for operators to monitor locations from elevated positions between 13.5` to 30`. This solar security assembly features a telescoping tower that folds over for easy transportation, a rotating boom that allows 360° rotation and a removable mast head for storage when not in use. One PTZ dome camera can be used to record images (supported by a 1TB NVR). This unit has two 265-watt solar panels, a 500aH capacity battery bank with 250aH being usable and a 120V battery charger for powering the cells when sunlight is unavailable. Operators can access a 4G LTE wireless router with antenna and GPS on the system.

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

The SPLT-.53K-LM30-EW-1XPTZD.30X-TLR10-W4G-BC is a complete, portable solar-powered surveillance system for outdoor and remote locations. This unit consists of a 13.5`-30` mast, one PTZ dome camera, 4G LTE wireless router with antenna, GPS and 1TB NVR. All components are mounted on a single axle trailer.

**Security Camera:** The system includes one PTZ dome camera. This camera offers 30x optical and 12x digital zoom. The camera has an automatic day/night and autofocus lens. Operating modes include color and black/white.

**Router/Wireless 4G Hotspot:** Operators can connect to wireless access points or cellular networks via a professional-grade router with two SIM card slots for load balancing or fail-over service. The unit supports WAN, LAN and Wi-Fi interfaces with 100Mbps throughput capabilities. Recommended for 1-60 users, this device works with all major carriers (CDMA/GSM/LTE). The access point can be disabled for security purposes upon request. A 6dbi antenna is included with the system.

**GPS Tracking:** The router is equipped with built-in GPS fleet tracking. This feature enables operators to monitor the location of the solar-powered system easily. Cloud-based management tools enable access to the wireless network from compatible devices.



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**Surveillance Tower:** This telescoping, fold over five stage steel security mast from Larson Electronics is designed to allow operators to quickly and safely deploy a reliable monitoring system in locations where it must be elevated to heights up to 30` for effective coverage. This security tower can be extended to 30` above the trailer floor for maximum area coverage, and collapsed to 13.5` for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a base section 6.6` in length and 6" by 6" by 3/16" thick, lower section 6.78` in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08` in length and 3" by 3" by 1/8" thick, and top section 7.58` in length and 2" by 2" by 1/8" thick. Each section has a 1` + overlap. The mast is extended to its full height using an electric winch. In the event of loss of power or electric winch failure, an included handle is

available for manual mast operation. 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 IP security cameras and LED strobe. 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. This tower is galvanized for use in rugged outdoor areas.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. Five 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 outriggers can be extended 2' out from the side of the trailer and from the tongue for added stability. When lowered to 13.5', 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. A 120V battery charger can be used for powering the batteries when sunlight is unavailable. Two 50' SOOW cords can be used with the battery charger.

**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 10' (trailer length) x 10' (trailer bed) x 14' (tow length), 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 outriggers 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.

**Solar Security Tower Benefits:** Larson Electronics solar security towers offer up to five power sources, when equipped with a wind generator. Standard models are powered by solar panels and can be upgraded with a backup fuel generator, battery charger, wind generator or power cord for direct connection to nearby outlets (these features come with additional costs). A combination of power sources can be added to systems for increased reliability in remote areas.

A key benefit in Larson Electronics solar tower surveillance systems is the ability to save and playback recordings for documentation (for systems with a network

video recorder). When combined with routers and other communication devices, operators can easily access recordings from computers, laptops, tablets or mobile phones. Antennas may also be added for extending wireless coverage.

Compared to manpower surveillance, our solar security masts are more cost effective and consistent. This is because these units can be deployed continuously without any breaks for long periods of time and in rainy or cold outdoor conditions. As a scalable solution, it also costs less to expand coverage and monitoring duration. Manpower surveillance requires meticulous schedule management, extra overtime payment (for operations exceeding 8 hours) and does not offer reliable recording of incidents.

**Applications:** Security, monitoring, live events, law enforcement, military, commercial, industrial facilities, outdoor surveillance, remote locations and more. 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](mailto:sales@larsonelectronics.com) for more information about our custom options tailored to meet your specific industry needs.

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## Frequently Asked Questions (FAQ)

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