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SPLT-.53K-LM30-1XPTZ.20X-CL1B.B-ISGG-TLR10

Portable Solar Surveillance Tower w/ IP Camera - 30' Mast, 10' Trailer - Backup Genset, LED Strobe

Product ID: 149423

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.20X-CL1B.B-ISGG-TLR10 Trailer Mounted Solar Security Mast

Mast Specs

Tower Length: 13.5` to 30`
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
Battery Charger: Yes, 120V AC

Backup Generator Specs

Dimensions: 26" x 22.4" x 28.4"

Weight: 224 lbs

Engine: 420CC 15 HP OHV

Quick Summary

13.5` to 30` Solar Surveillance Tower
Steel Construction
Powder Coated Finish
Removable Mast Head
(4) 1,000lb Outriggers
125 mph Wind Resistance
Manual or Optional Electric Operation
A-Frame for mounted (2) 265 Watt Solar Panels
Fully Solar, No Fuel Needed
SAEJ845, Class 1 LED Strobe
PTZ IP Camera w/ Motion Detection
De-fog Viewing (Rain and Fog)
360° Rotation, -15°~90° Tilt
7kW Backup Generator
1 TB NVR

Rated Power: 7,000W Output, 9,000W Peak

Fuel Capacity: 6.5 Gal

Starting System: Recoil & Electric

LED Strobe Specs
Lamp Type: LED Strobe (Blue)
Dimensions: 4.5" x 6.5" - D
Voltage: 12 or 24V DC
Watts: 14.4W
Lumens: 1,440
Luminous Efficiency: 100 LPW
Lighting Configuration: Strobing Flash
LED Life Expectancy: 50,000+ Hours
Operating Temp Range: -45°C ~ +55°C
Materials: Polycarbonate Lens

Camera Specs
Camera Type: Security Camera

Dimensions: 14.38" H x 7.12" D

Camera Weight: 9 lbs

Total Watts: 25.5 (Max)

Voltage: 24V AC (PoE - 802.3at)

Image Sensor: CMOS

Connectors: 1.0Vp-p, 75 Ohm, BNC

Effective Pixels: 2.1 MP, 1920 x 1080 Resolultion
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

Color: Beige/Black

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

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: (4) 1,000 Manual Crack Leveling Jacks

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

Tires: ST205/75/D15 H188

Hitch: 2" Ball Coupler

Weight: +-1200 lbs

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

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics SPLT-.53K-LM30-1XPTZ.20X-CL1B.B-ISGG-TLR10 Portable Solar Surveillance Tower w/ IP Camera 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, with a rotating boom that allows 360° rotation and a removable mast head for storage when not in use. A full-HD security camera can be used to record images, which is supported by a blue LED strobe lamp that acts as a deterrent. Operators may store footage via a 1TB NVR. This unit features 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, as well as a 7kW backup generator.

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

The SPLT-.53K-LM30-1XPTZ.20X-CL1B.B-ISGG-TLR10 is a complete, portable solar-powered surveillance system for outdoor and remote locations. This unit consists of a a 13.5`-30` mast, full-HD IP security camera, blue LED strobe fixture, 7kW backup generator and a 1TB NVR. All components are mounted on a single axle trailer.

Security Camera: The monitoring device provides 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 camera to see distances up to 492` under nighttime conditions. This unit offloads videos in MP4 format and features H.264 and MJPEG video compression.

The IP security camera is designed to perform in outdoor locations and rainy conditions. This IP66-rated unit resists the negative effects of non-corrosive liquids. De-fogging features enable the unit to operate in rainy and foggy conditions. This device is capable of operating in temperatures between -22°F and 149°F.

This solar security assembly comes with a 1TB, 8-channel network video recorder. Installation 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), 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.

LED Strobe: The SPLT-.53K-LM30-1XPTZ.20X-CL1B.B-ISGG-TLR10 features a Class 1 blue LED strobe lamp as a deterrent. This compact, high powered LED beacon contains an LED lamp assembly that produces 360° of brilliant blue light without the dark spots or unevenness of traditional incandescent beacon lights.

This beacon is equipped with auxiliary LEDs on top, helping to make this a Class 1 rated beacon and capable of producing a brilliant flashing pattern that is visible at extended distances.
This LED beacon has 30 flash patterns including four simulated rotating patterns that can be changed via a toggle switch from the control box. This waterproof beacon has a black powder coated die cast base that contains a fully potted circuit board. A clear polycarbonate lens protects the LED assembly and the housing is waterproof, shock resistant and built for for reliable and durable operation.
LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Click Photo to Enlarge

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Surveillance Tower: This telescoping 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 footprint smaller 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 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 IP security camera 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. 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 outriggers can be extended 2` out from the side of the trailer 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.

Click Photo to Enlarge

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.

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.

Backup Generator: This solar security tower features our GPG-9KW-1P-120.240 backup generator. This generator is powered by a 4-stroke OHV single cylinder engine with a forced air cooling system that runs on gas, and is started by pulling the recoil starter, or with the push of a button using the key less electric start. This genset will automatically kick on whenever the voltage of the battery system falls below 12V. This is useful for times when sunlight is not readily available.

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.

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 for more information about our custom options tailored to meet your specific industry needs.

Frequently Asked Questions (FAQ)

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Product ID: 149423

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Catalog Page - Product Series**
- **Operations Manual**
- **HigResPic1**
- **Video1**
- **Video2**
- **Video3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**