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SPLT-.6K-LM30-EW-TLR-ISDG-4X100-4XMP-W4G-M2

Mobile Solar Security LED Tower - 30' Mast, 7.5' Trailer - (2) 300W Panels, (4) LED Lights, (4) NDAA/Thermal Cameras, 2TB NVR, WR - Gas Gen./BC

Product ID: 280006

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-.6K-LM30-EW-TLR-ISDG-4X100-4XMP-W4G-M2 Trailer Mounted Solar Security Mast

Mast Specs

Tower Length: Telescoping to 30"
Stages: 5
Mast Head Length: 44"
Materials: Steel
Finish: Powder Coated - Gloss Blue
Operation: Electric Winch
Mast Cable: 3/16" Galvanized Aircraft Cable

Solar Specs

Panels: (2) 300 Watt panels
Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Solar Charge Controller: 60A MPPT
Battery Bank: (6) 40aH Lithium-ion Batteries
Battery Capacity: 240aH Total / 240aH Usable
Battery Charger: 120V - Connected to Backup Genset
Inverter: -
System Runtime: -

Backup Generator Specs

Fuel Type: Gas

Quick Summary

National Defense Authorization Act (NDAA) Compliant
30` Solar Light Tower
Steel Construction
Powder Coated Finish
Removable Mast Head
125 mph Wind Resistance
Electric Winch Operation
(2) 300 Watt Solar Panels
Fully Solar, No Fuel Needed
120V Battery Charger
Foldable Tongue
2 TB NVR
GPS Tracking
Blue LED Strobe Light
Backup Gas Generator
(4) LED Fixtures
(4) Thermal Cameras
Collapsed Mast Clears Standard Bridges

Total Watts: 9,000W

Fuel Tank Capacity: -

Autostart: When Battery Bank Reaches Below 30% Capacity

Generator Status Updates: Automatic Notification via SMS or Email

LED Strobe Light Specs

Lamp Type: LED

Voltage: -

Watts: -

LED Expected Lifespan: 50,000+ Hours

LED Color: Blue

Light Pattern: Strobe

Amps: -

Materials: -

Mount: Mast

PA System Specs

Unit Type: 2-way Audio

Sensor Type: -

Mount: Mast

LED Fixture Specs

Lamp Qty: (4)

Lamp Technology: LED

Voltage: -

Total Watts: 400W

Single-lamp Watts: 100W

Lumens: -

LED Lifespan Expectancy: 50,000+ Hours

Color Temp: -

Sensor Type: Day/Night

Manual Override Switch: Included

Materials: -

Mount: Mast

Outdoor Camera Specs

Camera Type: Thermal Bullet Camera
Camera Qty: (4)
Single-camera Watts: 25.5 (Max)
Voltage: -
Megapixels: 6MP
Sensing Type: Thermal
Housing Materials: -
Lens Material: -
Mount: Mast

Network Video Recorder Specs

Storage Capacity: 2 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)
Two-way Audio Input: 1-ch, RCA
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
Operating System: Linux Custom Software
Materials: Aluminum

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

Trailer Specs
Materials: Steel
Trailer Dimensions: 10`L x 6`W (Trailer Bed) - 14`L (Tow Length)
Trailer Footprint: 14.65`L x 12.91`W
Wiring: 7-Pin Flat
Axle: 3,500lb
Suspension: 3,500 Lb 4-Leaf Double Eye Springs
Leveling Jacks: (4) 1,000 Manual Crack Leveling Jacks
Wheels: (2) 15" 5x4.5 Steel Rims
Tires: ST205/75/D15 H188
Hitch: 2" Ball Coupler
Transport Dimensions: 160.68"-L x 88"-W x 81.15"-H
Weight: +-1500 lbs
Shipping: Common Freight
Shipping Dimensions: 14`L x 10`W x 12`H
Shipping Weight: -
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-.6K-LM30-EW-TLR-ISDG-4X100-4XMP-W4G-M2 Portable Security LED Tower provides a safe and effective way for operators to monitor locations from elevated positions up to 30`. This solar security assembly features a telescoping tower with a removable mast head for storage when not in use. Four thermal bullet security cameras can be used to record images, supported by a 2TB NVR. Equipped with GPS tracking, an included router facilitates wireless access point and cell network connections (6dbi antenna included). This unit features two 300-watt solar panels (fixed mount), four LED fixtures, 240aH capacity lithium-ion battery bank, backup gasoline generator and 120V battery charger.

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

The SPLT-.6K-LM30-EW-TLR-ISDG-4X100-4XMP-W4G-M2 is a complete, portable solar-powered security LED system for outdoor and remote locations. This unit consists of a 30` telescoping mast with electric winch, two 300-watt solar panels, four LED fixtures, four thermal bullet cameras, PA system, wireless router with two SIM card slots, GPS tracking, lithium-ion battery bank, backup gas generator, battery charger and solar charge MPPT controller. All components are mounted on a single-axle trailer.

All cameras on this system comply with the 2019 National Defense Authorization Act (NDAA). The regulation bans federal governments, their contractors and businesses with national security interests from buying and using surveillance equipment made by specific major China-based manufacturers, including Hikvision, Dahua and their OEMs. Security products sold by Honeywell, Bosch, Panasonic, ADT, Flir and many more are affected by the ban. NDAA compliance also includes a ban on ZTE, Huawei and Hytera telecommunication equipment.

Operation:

- (2) 300W solar panels w/ 60aH solar MPPT charge controller
- (6) 40aH lithium-ion batteries - 240aH total battery bank/240aH usable
- (4) 100-watt LED fixtures
- (4) thermal bullet cameras - NDAA compliant, 6MP
- 2TB network video recorder configured in RAID configuration
- Router with (2) SIM card slots - wireless access point or cell network
- 120V battery charger
- PA 2-way audio system
- Blue LED strobe light with day/night operation or motion sensor
- Backup gasoline generator
- All system components secured to a DOT-approved trailer
- Trailer comes with (4) leveling jacks and vin#

LED Fixtures: The SPLT-.6K-LM30-EW-TLR-ISDG-4X100-4XMP-W4G-M2 features four, 100-watt LED lights for outdoor illumination. Settings for the LED fixtures include: day/night or manual on/off 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.

Bullet Cameras: This trailer mounted security system features four bullet thermal cameras with 6MP resolution. The cameras start recording upon sensing thermal conditions around the trailer.

Network Video Recorder: The solar security assembly comes with a 2TB, 8-channel network video recorder, which operates on Linux-based custom software. 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. The 10TB

storage is configured in a RAID configuration to prevent data corruption due to drive failure. 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.
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)
PA System: This unit is equipped with a two-way PA audio system.
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 for the system is included.
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.
LED Strobe: The SPLT-.6K-LM30-EW-TLR-ISDG-4X100-4XMP-W4G-M2 comes with a blue security LED strobe light. We can add a red or white LED strobe light at an additional cost (combination of colors is also possible).



Click Photo to Enlarge

Surveillance Tower: This five-stage steel mast from Larson Electronics is designed to allow operators to quickly and safely deploy equipment in locations where it must be elevated to heights up to 30` for effective coverage. This light boom can be extended to 30 feet for maximum area coverage and collapsed for applications where a smaller footprint is required. In a collapsed position, the tower is towable on roads and is capable of clearing standard bridges. The mast extends to its full height using an included electric winch.
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 equipment. The LM series of towers are powder coated with glossy blue finish for corrosion resistance 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 components can be extended 2` out from the side of the trailer for added stability. When collapsed, 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 300-watt solar panels, generating a total maximum output of 0.6 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 solar panels are mounted to a frame angled at 45° to capture the intensity of the sun for optimized light intake.
Batteries: The solar unit contains a battery bank that consists of six, 40aH lithium-ion batteries for a 240aH battery bank (240aH usable). Compared to conventional SLA batteries, these units are 100% usable and lighter in weight. Over time, this results in lower operating and maintenance costs. An included battery level indicator that provides real-time power monitoring for the battery bank.
Solar Charge Controller: The solar-powered system features a 60A MPPT solar charge controller.
Battery Charger: This system comes with a 120V battery charger, which can be plugged into a local wall outlet during use, such as prior to deployment or when local power is available at the remote site. We can add a 220V or 240V battery charger to power additional equipment from the solar tower at an additional cost (portable battery chargers are also available).
Inverter: This unit does not have an inverter. We can add one at an additional cost.
Backup Generator: This unit has a 9kw backup gasoline generator. We offer models with gasoline, LPG/LNG or diesel backup gensets (may come with additional costs). An auto start feature automatically activates the backup generator when the battery bank reaches below 30% capacity. Automatic notification about the generator`s status can be sent via SMS or email. For systems with battery chargers and backup generators, the battery charger is connected to the genset by default. It is possible to unplug the battery charger from the generator for local charging.
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. Trailer length refers to the measurement from the hitch to the rear bumper. The trailer bed refers to deck space that holds system components and equipment (not including tires, hitch, bumper and external trailer components). This 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 folded up for seamless storage. A rugged and waterproof job box is included, safely secured to the trailer. Leveling jacks on the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.
Outriggers vs Leveling Jacks: The solar-powered system features manual-crank leveling jacks. Outriggers help expand the surface area for large equipment or loads. This differs from leveling jacks that are used to stabilize or level systems. Leveling jacks can be mounted to outrigger legs (or the side of the trailer).
Applications: 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.

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Frequently Asked Questions (FAQ)

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