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SPLT-.6K-LM25-EW-TLR-ISDG-4X8MP-GSD-W4G-M2

25' Mobile Solar Security Tower - 7.5' Trailer - (2) 300W Panels, (4) 4K NDAA Cameras, Gunshot Detector - Backup Gen/BC

Product ID: 280805

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-LM25-EW-TLR-ISDG-4X8MP-GSD-W4G-M2 Trailer Mounted Solar Security Mast

Mast Specs

Tower Length: Telescoping to 25"
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) 300W Panels w/ Dual Pane Polycarbonate for Bullet Resistance
Method of Deployment: Fixed Mount
System Voltage: 12 Volts
Solar Charge Controller: 40A MPPT
Battery Bank: (12) 40aH Lithium-ion Batteries
Battery Capacity: 480aH Total / 480aH Usable
Battery Charger: 120V - Connected to Backup Genset
Inverter: -
System Runtime: 2 Days Continuous without Charging or Using Generator

Backup Generator Specs

Fuel Type: Diesel
Total Watts: 5,000W
Fuel Tank Capacity: 12 Gallons
Genset Runtime: 40 Hours per Full Tank
Autostart: When Battery Bank Reaches Below 30% Capacity
Generator Status Updates: Automatic Notification via SMS or Email
Operating Modes: Hybrid (Operates on Solar, Battery, Generator or Grid Tie), Combined Battery + Generator (Up to 4 Days without Maintenance)

4K Camera Specs

Listing: NRTL Listed for United States & Canada
Camera Qty: (4)
Dimensions: 8.5" × 4.76" × 4.65"
Weight: -
Single-camera Watts: 5.5W (Max)
Power Source: 12V DC ± 25%, PoE (IEEE802.3 af)
Image Sensor: 1/3” 8 Million Pixel, Progressive Scan CMOS
Main Stream Video Resolutions: up to 8MP/4K (3840×2160) - Max. 20 fps; 5MP (2592×1944) - Max. 30 fps; 3MP (2560×1440) - Max. 30 fps

Quick Summary

25` Solar 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
Vandal Resistant
Enclosed Generator
Bullet Resistant Solar Panels
Padlockable Enclosures
Outriggers w/ Stabilizing Jacks
Tires Can be Removed Once Deployed

Camera Ratings/Summary

National Defense Authorization Act (NDAA) Compliant
Class I, Divisions 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
NEMA 3R, 4, 7 (B, C, D), 9 (E, F, G)
Motion Detection
Intrusion Detection
Detect up to 175 Feet
Recognize up to 125 Feet
Identify Individuals up to 75 Feet

Sub Stream Video Resolution: up to 2MP (1920×1080) - Max. 30 fps
Mobile Data-Sensitive Stream Video Resolution: up to D1 (720×576); Max. 30 fps
Compression Type: H.265, H.264, MJPEG
Bit Rate: 32Kbps - 8Mbps
Focal Length: 4.0mm @ F2.0
Max Field of View: 86° of Horizontal Coverage; (44° Vertical)
Shutter Speed: Auto/Manual, 1~1 to 1/100,000 second
Min. Illumination: Color Video Until 0.05 Lux lux @ F2.0, AGC ON 0 lux with IR on
Infrared Light: Built-in
Day/Night: IR-cut Filter w/ Auto Switch (ICR)
IR Range: up to 100'
Digital Noise Reduction: 2D/3D DNR
Ethernet Interface: RJ45 10M/100M Base-TX Ethernet
Protocols: IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP
BLC: Yes, Zone Configurable
Alarm Trigger: Motion Detection, Tampering Alarm, Network Disconnect, IP Address Conflict, Storage Exception

Ambient Temperature Range: -22°F to +140°F
Housing Materials: Copper-free Aluminum Alloy
Lens Material: 3/8" Thick Tempered Glass
Mounting: Tower

Gunshot Detector Specs
Detection: Low and High Frequency Sounds
Audio Streaming: Yes
Password Protection: Yes
Audio Analytics: Yes
Event Actions: TCP Notification, Pre and Post Alarm Audio Recording to NAS, External Output Activation
Digital Alarm: Output Ports
Enclosure: Weather Resistant Aluminum
Wiring: Waterproof RJ45 Connector

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: Outriggers with Stabilizing 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-LM25-EW-TLR-ISDG-4X8MP-GSD-W4G-M2 Mobile Security Tower provides a safe and effective way for operators to monitor locations from elevated positions up to 25`. This solar security assembly features a telescoping tower with a removable mast head for storage when not in use. This unit features two bullet resistant solar panels (fixed mount), four 4K NDAA compliant explosion proof cameras, gunshot detector, 480aH capacity lithium-ion battery bank, backup diesel generator and 120V battery charger.

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

The SPLT-.6K-LM25-EW-TLR-ISDG-4X8MP-GSD-W4G-M2 is a complete, portable solar-powered security system for outdoor and remote locations. This unit consists of a 25` telescoping mast with electric winch, two 300-watt solar panels, four 4K cameras, gunshot detector, lithium-ion battery bank, backup diesel 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/ dual pane polycarbonate for bullet resistance
- (12) 40aH lithium-ion batteries - 480aH total battery bank/480aH usable
- (4) 4K explosion proof cameras - NDAA compliant
- Gunshot detector
- 5kW diesel generator
- 120V battery charger
- All system components secured to a DOT-approved trailer
- Trailer comes with outriggers w/ stabilizing jacks and vin#
- Vandal resistant

4K Outdoor Cameras: This trailer mounted security system has four outdoor 4K cameras. Each camera features a built-in 1/3" progressive-scan CMOS image sensor that delivers up to 4K 8.0MP resolution at 20 fps. The fixed lens with 86° of horizontal coverage and 44° of vertical coverage is designed to cover large areas and work spaces. This explosion proof camera provides a crisp and clear image for everything within the focal area. Headlight compensation and automatic defog enhances images during recording.

The explosion proof unit comes with built-in infrared lights. For additional infrared illumination, an external infrared light can be used with the explosion proof device (not included). For 12-24V DC applications, we recommend the Larson Electronics 12-watt explosion surface-mount infrared LED light (EXHL-TRN-LE3-IR-1224). As an alternative, we also offer the EXHL-TRN-LE3-IR-1227 for 120-240V AC applications.

This remote inspection camera utilizes a day/night IR-cut filter with auto switch (ICR) to produce clear images in variable and low light conditions. The camera automatically switches from full color to IR mode when visible light falls below a certain level.

Gunshot Detector: An aluminum, weather resistant gunshot detector is available on this system. Capable of detecting low and high frequency sounds, the device features digital alarm for output ports and a waterproof RJ45 connector. Password protection and user level access are available for security. Operators can access audio analytics and set decibel threshold event triggers. Powered by a quad-core processor, the device offers the following event actions: TCP notification, pre and post alarm audio recording to NAS and external output activation.

PA System: This unit is not equipped with a two-way PA audio system. We can add this component at an additional cost.

Router/Wireless 4G Hotspot: The SPLT-.6K-LM25-EW-TLR-ISDG-4X8MP-GSD-W4G-M2 does not have a router for wireless communication. We can add this capability at an additional cost.

GPS Tracking: This system does not have GPS tracking. We can add this feature at an additional cost.

LED Strobe: The SPLT-.6K-LM25-EW-TLR-ISDG-4X8MP-GSD-W4G-M2 does not come with a security LED strobe light. We can add a blue, 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 25` for effective coverage. This light boom can be extended to 25 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. Dual pane polycarbonate provides bullet resistant protection. 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 twelve, 40aH lithium-ion batteries for a 480aH battery bank (480aH 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 40A 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 5kW backup diesel generator. We offer models with gasoline or LPG/LNG backup gensets (may come with additional costs). Equipped with a 12-gallon fuel tank, the generator offers 40 hours of

runtime per full tank. 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.

Operating Modes: In hybrid run mode, the unit operates on solar panels, battery, generator or grid tie. A combination of the battery and generator enables operation up to 4 days without maintenance. When running on solar panels and battery, the system offers up to 2 days of continuous operation without charging or using the generator.

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, which can be removed after deployment. 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 padlockable job box is included, safely secured to the trailer. Outriggers with 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 outriggers with 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).

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: 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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Product ID: 280805

Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**