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LM-TSM-50-13-5S-5X500LTL-LED-RD

2400W High Intensity LED Light Plant - Manual Crank Winch - Skid Mount 50' Mast - Towable

Product ID: 149277

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.

LM-TSM-50-13-5S-5X500LTL-LED-RD 2400W LED Light Plant
Lamp Type: LED
Lamps: (5) 480 Watt LED Fixtures
Total Watts: 2,400
Total Lumens: 324,500
Mast Length: 13 feet to 50 feet
Dimensions (Collapsed): 75.09"-L x 75.09"-W x 186.70"-H
Dimensions (Extended): 111.50"-L x 111.50"-W x 630.70"-H
Capacity: 250 lbs
Materials: Steel
Finish: Powder Coated - Gloss Blue

Operation: 2,500lbs Manual Winch
Cable: 3/16 Aircraft Cable
Mounting: 48" x 48" x 53" Carbon Steel Triangle Frame

Weight: 1571 lbs

Shipping: Common Freight

Lamp Specs
Lamp Type: LED
Voltage: Universal 100-277 VAC, 50/60Hz

Lighting Configuration: Flood Pattern

Temp Rating: -40°C to +65°C

Color Temp: 5600K, 5000K, 4500K, 4000K, 3500K or 3000K

Color Rendering Index: >70-CRI

Lamp Life: 80,000+ Hours

Quick Summary
Mast Summary
13` to 50` Foot Light Mast
Steel Construction
Power Coated Finish
Removable Mast Head
125 mph Wind Resistance
Manual Operation
(4) 4` Slide-Out Outriggers w/ 1,000lb Jacks
Lunette Hitch and Casters for Towing

LED Lamp Head Summary
ETL Listed US & Canada
80,000+ Lamp Life
Corrosion Resistant Aluminum Housing
Independently Adjustable Light Heads

Special Orders - Special Requirements
Contact us for special requirements

Outlet/Cord Cap: Twist Lock - 120V or 240V
Wiring: 100` 14/3 SOOW Cable
Cable Management: Manual Crank Cord Reel
Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

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Made in the USA

The Larson Electronics LM-TSM-50-13-5S-5X500LTL-LED-RD skid mount LED light plant provides a safe and effective way for operators to quickly deploy 2,400 watts of intense lighting to elevations up to 50 feet. The five, 480-watt LED lamps produce a wide spread of intense white light, allowing this unit to effectively cover large work areas with high quality illumination. The light tower features a manual crank winch for deployment and a removable mast head for storing mounted equipment when not in use. The LED fixtures are supported by a cube frame with skid pockets, polyurethane casters, Lunnett style tow hitch and 4-corner pick eyes for easy transportation. Each assembly is equipped with 100` of 14/3 SOOW cord and can be configured to operate on 120V or 240V AC.

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

The LM-TSM-50-13-5S-5X500LTL-LED-RD five stage telescoping steel light mast with manual hand crank winch from Larson Electronics is designed to quickly and safely deploy 2,400 watts of intense LED lighting in locations where elevated illumination is needed for maximum area coverage. This light boom can be extended to 50` for maximum area coverage and collapsed to 13` for applications where a smaller footprint is required. The tower is constructed of square steel tubing with a base section 11` in length and 6" x 6" by 3/16" thick, lower section 11` in length and 5" x 5" by 3/16" thick, middle section 11` in length and 4" x 4" by 1/8" thick, an upper section 11` in length and 3" x 3" by 1/8" thick, and a top section 11` in length and 2" x 2" by 1/8" thick. Each section has a 15-18" overlap. The mast is elevated using an included 2,500 lbs manual hand crank winch with 3/16" galvanized steel cable.

Included with this light tower are five of our wet area suitable GAU-LTL-500W-LED 480 watt high output LED fixtures producing a combined total of approximately 324,000 lumens at 2,400 watts. Each light head contains forty-eight CREE® high output LEDs producing 1,350 lumens each are arranged in rows and paired with PMMA high purity optics to produce a well focused 25° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 40° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

Each floodlight is securely fastened to the light boom and each lamp includes a support bracket to help maintain lamp stability within its housing. The mast head positions one light on each side of the mast, and each light head can be positioned verically and horizontally independent of each other. The lamps are connected to the power source via a water tight male connector that extends from the junction box attached to the mast head and attaches to a mating female connector, providing power to the LED light fixtures. The lamps are connected to the power source via a water tight male pin connector that attaches to a receptacle located on the end of the telescoping boom.





Click Image to Enlarge Click Image to Enlarge

The light heads on this unit features multiple LED drivers which helps to increase the operational life of the fixture. With traditional LED lights, in the event an LED array or driver fails, the entire fixture no longer illuminates. This new series of LED lamps contains eight individual LED "strips" configured in a series of banks. Each bank contains four LED strip with an individual driver per bank. In the event of a driver failure, only one bank of LEDs will be effected while the other banks will continue to operate. In the event that of an LED failure, the mating LED will continue to operate.

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

The towers and assembly is powder coated with glossy blue finish for corrosion resistances and aesthetics. The mast and controls are secured within a triangle-style frame constructed of 2" by 2" by 1/8" thick and measuring 48" wide by 48" long by 53" tall. Four 4` slide out outriggers with 1,000 lbs manual crank leveling jacks allow operators to anchor the unit down, providing stability during deployment. Four skid pockets allow this unit to be picked up from the sides. 8" polyurethane swivel casters allow this unit to be maneuvered into position easily, and the Lunnette eye ring on folding hitch allow this tower to be towed around the job site via a pintle receiver hitch.

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 five LED light fixtures. The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. This light plant system can withstand winds up to 125+ mph when lowered to 8`, and up to 55 mph when fully extended.

The mast is operated via centrally located control box with power switches within the cube frame, allowing operators to power the LED light fixtures on or off. Wiring is provided via 100` 14/3 SOOW cable terminated in a 20 amp L5-15 (120V) or L6-20 (240V) twist lock plug. A manual roll up drum mounted within the steel cage frame provides storage for the power cable. All electrical components are UL/cUL listed.

Suggested Applications: Temporary lighting, construction sites, and security camera deployment. We can equip this mast with 1000W or 1500W Metal Halide lights or a wide variety of high powered LED lights with comparable power, including the GAU-LTL-400W-LED, LED10WSA-160, LEDLB-200X2E, LEDLB-160X2E or LEDLB-80X2E.

Larson Electronics can custom tailor these units to the customer’s requirements. Cube or triangle skid bases with crank up or pneumatic masts ranging from 20` to 50` in height. Choice of manual or electric winches for crank up masts. Skid pockets, wheels or casters, and picking eyelets. We can equip these units with a large assortment of LED lights.

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Frequently Asked Questions (FAQ)

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Product ID: 149277

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LM-TSM-50-13-5S-5X500LTL-LED-RD-Voltage-Beam Angle-Color Temperature

Example: LM-TSM-50-13-5S-5X500LTL-LED-RD-120V-10SP-56K

Voltage	
120V AC	-120V
240V AC	-240V

Beam Angle	
10° SPOT	-10SP
24° WIDE SPOT	-24WS
38° NARROW FLOOD	-38NF
60° FLOOD	-60F
90° WIDE FLOOD	-90WF

Color Temperature	
5600K	-56K
5000K	-50K
4500K	-45K
4000K	-40K
3500K	-35K
3000K	-30K

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**