

RMU-LM-50-5S-TLR-16X400LTL-LED

***USED* 50' Pneumatic Megatower™ - 21' Trailer - Extends 22-58' - (16) 480W LED Lights**

Product ID: 152538

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.

RMU-LM-50-5S-TLR-16X400LTL-LED Lightly Used Trailer Mounted 3-Stage Megatower™

Light Mast Specs

Tower Length: 22' to 58'

Lamp Qty: (16)

Materials: Heat Treated 6063B/T5 Aluminum

Finish: Powder Coated

Operation: Pneumatic w/ Hydraulic Ram

Light Head Specs

Lamp Type: CREE LED

Total Wattage: 7,680W (480W per lamp)

Total Lumens: 1,036,800 (64,800 per lamp)

Lighting Configuration: Flood Beam Pattern

Controls Specs

Line-In Voltage: 240/120V or 208/120V

Line-In Cable: 20' 10/4 SOOW Cable

Panel: NEMA 3R w/ Breakers

Trailer Specs

Materials: Steel

Quick Summary

22' to 58' Light Mast

Steel Construction

Power Coated Finish

Removable Aluminum Mast Head

4-Point Retractable Outrigger System

Up to 125 MPH Wind Resistance

Independently Adjustable Light Heads

Universal Voltage 120-277V AC

IP67 Waterproof Light Heads

50,000+ Hour Lamp Life

Powered Boom Deployment

High Output LED Lamps

Extreme Area Coverage

Dial-in Adjustability per light head

Switched Breaker System per LED Bank

Cold Weather Package for Sub-Zero Environments

Made in the USA

Lightly Used Unit

Trailer Dimensions: 21'-L x 7'-W trailer bed
Height (Mast Collapsed & Upright): 21'-9/32"-H
Height (Mast Extended): 58'-H
Footprint (Outriggers Extended): 34'-3/4" x 12'-9/16"
Hitch: 3" Lunnett
Wiring: 7-Pin Flat
Axles: 7,000 lbs w/ Electric Brakes
Suspension: Leaf Spring
Outriggers: (4) 6" x 6" x 6" I-Beams Retractable w/ (4) 7,000 lbs Manual Leveling Jacks
Wheels: (4) 16" 5x4.5" Steel Rims
Tires: (4) P235/80R16

Special Orders - Special Requirements

Contact us for special requirements

Weight:

Intl: 1-903-270-1187

Shipping: Common Freight

Toll Free: 1-800-369-6671

Shipping Weight:

Fax: 1-903-498-3364

Options: Length- Mounting-Fixtures/ Call Us for Special Requirements

E-mail: sales@larsonelectronics.com

3 year warranty replacement on this light mast. The customer ships the failed light mast to Larson Electronics at their expense. If the failure is a manufacturer defect, we will repair and/or replace the unit.

Made in Texas

This is a lightly used unit.

The Larson Electronics RMU-LM-50-5S-TLR-16X400LTL-LED trailer mounted fold over 7-stage Megatower™ provides a safe and effective way for operators to quickly deploy the sixteen 480 watt LED light heads to elevations up to fifty feet. This pneumatic light tower folds over for easy transportation, features a hydraulic ram upright assist, air powered pneumatic mast and high output LED fixtures. The entire assembly is mounted onto a 21' by 8' tandem axle trailer, allowing operators to transport this fold over boom from location to location.

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

This telescoping seven stage pneumatic Megatower™ from Larson Electronics is designed to allow operators to quickly and safely deploy up to 1,036,800 lumens of high intensity LED lighting in locations where illumination must be elevated to heights up to 58' for effective coverage. This light boom can be extended to 58' for maximum area coverage, and collapsed to 22' for applications where a footprint smaller is required. The tower is constructed of heat treated aluminum tubing with 2.69' foot of overlap per section. The mast is elevated using an included hydraulic ram, and extended to its full height using a trailer mounted air compressor.



[Click Images to Enlarge](#)



A 90" wide by 109.5" tall and 2" by 2" by 1/4" thick steel mast head is attached to the upper section of the mast which provides a strong and stable platform for the sixteen 500 watt LED light heads.

Lights: Included with this Megatower™ is one of our wet area suitable [GAU-LTL-500W-](#)

LED high output LED fixtures producing a combined total of approximately 64,800 lumens at 480 watts. The light head contains forty-eight CREE™ high output LEDs producing 1350 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, 38° 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 lamps are hard wired into a NEMA 3R panel located on the end of the telescoping boom.

[Click here to see the lighting layout comparison of the metal halide verses LED Megatower light plants from Larson Electronics.](#)

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.



[Click Images to Enlarge](#)



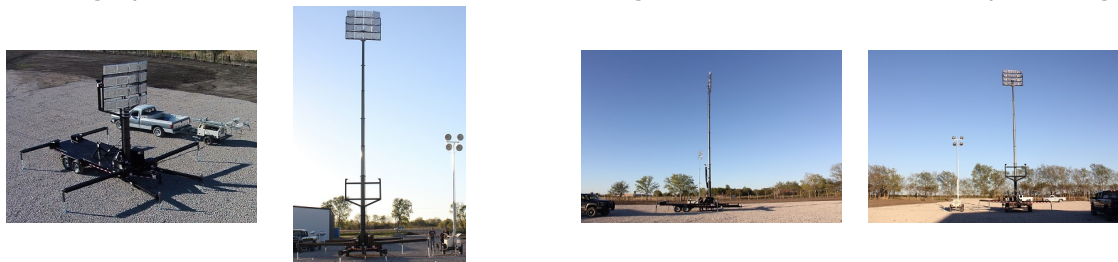
Durability: As well as unparalleled heat control, the GAU-LTL-500W-LED series of LED lights from Larson Electronics also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The CREE™ LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,000 hours of use. We recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units feature individual heat sinks per bank of six LEDs to control heat buildup rather than utilizing a single housing to dissipate heat. This allows for more thorough cooling of the LEDs for extended operating periods. This allows the LEDs to be driven at up to 90% capacity without overheating or visible loss of light output. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 80,000 hours.

Telescoping Boom: The pneumatic telescoping boom is constructed of heat treated aluminum with an powder coated finish and extends up 58` in height. This boom is raised from and lowered to the folded position by a single hydraulic ram, and extended

or retracted by pneumatic system with equipped air compressor.

Wiring/Controls: The LED light heads are grouped into banks of four. Each bank is wired into the NEMA 3R breaker control box at the base of the mast. Operators control the light heads via an on/off switched breaker per bank of four light heads. The air compressor and battery charger are also powered from within this breaker box. Power is provided to the control box via a 20' 10/4 SOOW whip with flying leads for connected to terminal mount gensets. Operators supply 240/120V or 208/120V (depending on the configuration) to the light plant. The mast elevation is controlled by a push button switch to operate the hydraulic ram, allowing operators to raise the mast to the upright position. The vertical deployment is operated by an up/down level, allowing operators to extend it to its full 50' height or retract it to the collapsed height.



[Click Images to enlarge.](#)

The above images show a side by side comparison of the LM-50-5S-TLR-16X400LTL-LED next to a 30' four lamp metal halide light plant.

The entire unit is mounted onto a four wheel, tandem axle trailer constructed of 8" box steel equipped with axles. Each axle is rated at 7,000 lbs and equipped with P235/80R16 tubeless tires and wheels. The rear axle is equipped with electric brakes. Tongue weight is rated at 650 lbs and an adjustable 3" lunnett eye for pintle hitches provides secure hookup to tow vehicles. A single 7,000 lbs rated tongue jack provides a stable connect-disconnect platform as well as additional stability during tower deployment. Standard heavy duty safety chains are included. This trailer also includes a front mounted storage area for stowing tools and accessories. The trailer is finished in industrial grade Dupont™ paint for protection against rust and corrosion and provides an attractive finish. Overall dimensions of the entire trailer and boom assembly in the stowed for travel configuration is 21' long by 7' wide.

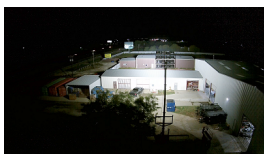
Six 7,000 lbs hand crank jacks are used for raising the trailer up off the ground, and four 7,000 lbs hand crank jacks mounted on extending outriggers are used for leveling and stabilizing the trailer assembly. Each of the four jacks are attached to a pivoting outrigger constructed of 6' by 6" by 6.3" steel I-beams. The jacks can be leveled by hand crank or attachment provided for power drills. These outriggers can be extended 6' out from the side of the trailer for added stability. This light plant can withstand 35 mph winds when fully extended. When lowered to 30', the mast can withstand 50 mph winds. When lowered to 22', the mast can withstand wind speeds up to 95 mph with gusts of 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.

We offer a choice of finishing, equipped light heads, and with or without gensets. These towers can be fitted with Larson Electronics line of high output light heads, or customize the mast head to meet the mounting requirements for your equipment. Optional diesel generators and fuel cells can be equipped from factory, or retrofitted after purchase.



[Click Images to enlarge.](#)

The above images show a side by side comparison of the light output between our LED light plant and a traditional four lamp metal halide light plant. The left image shows the metal halide light plant raised to 30' and illuminating a 50,000 sq ft work area with four 1000 watt metal halide light fixtures. The right image shows the RMU-LM-50-5S-TLR-16X400LTL-LED light plant raised to 50', illuminating the same 50,000 sq ft work area with sixteen 500 watt LED fixtures. Notice how the color and intensity of the work area is greatly improved when lit up by the LED fixtures.



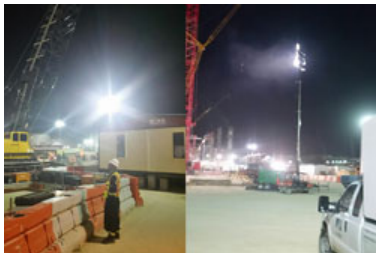
[Click Images to enlarge.](#)

The left image above shows the light mast illuminating a 300,000+ sq ft area. The yellow billboard in the image reaches 40 lux, while the fence at the tree line (500' + away from the tower) reaches 35 lux. This image was taken from 50' behind the mast and at 100' above ground level. The image to the right shows the work space 75' in front of the mast, with the entire area work area reaching over 100 lux. The mast was extended to 35'.

The left image above shows the same 300,000+ sq ft area being illuminated. In the background you can see a vehicle with their headlights on, barely able to be seen in comparison to the RMU-LM-50-5S-TLR-16X400LTL-LED light plant. This image was taken at 80' to the right of the mast and 175' above ground level. The mast was extended to 35'. The image on the right is a Google Earth export of the physical area being illuminated, for scale purposes.

Cold Weather Package: The RMU-LM-50-5S-TLR-16X400LTL-LED is designed to withstand extreme cold environments and harsh winters. The pneumatic system is equipped with a de-icing system to prevent the air compressor, air lines, and pneumatic mast from freezing from moisture building within the air system. This de-icing system uses an environmentally friendly (non-toxic) fluid. All air lines are equipped with cold weather rated hydraulic hoses rated for -65°C and fitted with metallic hardware. The air compress consists of an oil-less unit equipped with an aluminum air regulator, stainless steel ball valves, and stainless steel valve controls. The head of the air compressor is wrapped with heat trace to prevent the compressor from freezing over in subzero temperatures. All the pneumatic controls are housed within an insulated and weather tight enclosure. This pneumatic control box features 1/2" thick polystyrene foam insulation and heat trace.

The hydraulic system features -65°C cold weather rated rubber hydraulic hoses with metallic fittings and a cold weather rated high viscosity hydraulic fluid. The battery system that powers the hydraulic system features a cold weather rated sealed acid glass mat 12 volt battery wrapped in a heated battery blanket. A cold weather rated battery charger keeps the 12 volt battery charged. All battery components are enclosed within a NEMA 3R housing. All electrical components are wired using cold weather rated SOOW cable with rated to -50°C that features high flexibility, and extreme abrasion, acid, oil, and water resistance even in sub-zero climates.



[Click Photos to Enlarge](#)

Suggested Applications: Temporary lighting, construction sites, and security camera deployment. We can equip this mast with 1000W HID-22-SL-REM or 1500W HID-22-15M-SL-REM Metal Halide lights or a wide variety of high powered LED lights with comparable power, including the [LED10WSA-160](#), [LED10WSA-320](#), [LEDP5W-30](#), [LEDP5W-60](#), and [GAU-HB-160LED](#).

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)









RMU-LM-50-5S-TLR-16X400LTL-LED

Product ID: 152538

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

RMU-LM-50-5S-TLR-16X400LTL-LED-Voltage

Example: RMU-LM-50-5S-TLR-16X400LTL-LED-240.120

Voltage	
240/120	-240.120
208/120	-208.120

Links (Click on the below items to view):

- [IES \(Photometric File\)](#)
- [Photometric Flood Report](#)
- [Photometric Indoor Report](#)
- [Photometric Polar Graph](#)
- [Spectrum Curve \(Wavelength Graph\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)