Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

WAT-24X6.5-TNDM-2XLM-HA-16-2X500LTL-MOD1

Synchronized Tandem Mast System - Extends to 16' - (2) Hydraulic Masts, (2) 500W LED Lamps

Product ID: 150291

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.

WAT-24X6.5-TNDM-2XLM-HA-16-2X500LTL-MOD1 LED Light Tower Trailer

LED Lamp Specs

Lamp Type: (2) CREE LEDs
Total Watts: 1,000W
Total Lumens: 120,000
Luminous Efficiency: 125 lm/w
Beam Configurations: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
LED Color Temperature: Cool White - 5500-6500K
LED Life Expectancy: 80,000 hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
LED Drive %: 90%
Voltage: 120-277V AC or 127-431V DC
Amp Draw: 5A @ 120V, 2.5A @ 240V, 2.67A @ 277V
Wiring: 2.5` Pigtail w/ Flying Leads
Mounting: Flat Surface Trunnion Mount U-Bracket
Materials: Die Cast Aluminum Housing, PMMA Optics

Mast Specs

Configuration: (2) Hydraulic Masts w/ Modular Base
Materials: Steel
Payload Capacity: 5,200 lbs - Horizontal Load
Finish: Black
Mast Operation: Hydraulic
Hydraulic Control: Wireless Remote w/ 100` Range

Ratings/Approvals

(2) Hydraulic Masts on Trailer
(2) 500W LED Lamps
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
135 Lumens Per Watt Efficiency
70% Lumen Retention after 80,000 Hours
UL1012 Compliant
UL60950-1 Compliant
CE Certified
RoHS Compliant
IP67 Rated Waterproof
Synchronized Tandem Mast System
35 mph Wind Load
Wireless Remote System

Trailer Bed Dimensions: 24` x 6.5`

Total Height (Mast Collapsed): 9.9`

Height (Mast Extended): 18.4`

Footprint (Outriggers Extended): 16.6` x 24`

Hitch: 3" Lunnett

Wiring: 7-Pin Flat

Axles: 5,700 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

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Made in Texas

The Larson Electronics WAT-24X6.5-TNDM-2XLM-HA-16-2X500LTL-MOD1 Synchronized Tandem Mast System is a trailer-mounted solution for transporting and raising industrial equipment, including curtains, lights, cameras and more. This trailer is equipped with two hydraulic-powered masts, which are controlled wirelessly via a remote control, and two 500-watt LED fixtures (on top of each mast). Both steel towers can be raised to reach heights up to 18.4` (mast fully raised with trailer; 16` from trailer bed).

The WAT-24X6.5-TNDM-2XLM-HA-16-2X500LTL-MOD1 is a trailer-mounted system for transporting and raising industrial equipment, such as curtains, covers, lights and more. Equipped with a trailer bed measuring 24` x 6.5`, this unit consists of two steel masts, which can be raised up to 16` (from the trailer bed), and two 500-watt LED lamps (individually mounted on top of each mast). During operation, the trailer-mounted system is capable of hoisting curtains measuring 16` x 20`. Mounting connections for equipment can be found on top, bottom and inside the masts. Operators can control the hydraulics using a wireless remote control with a 100` range (maximum). Buttons on the controller include extend, on/off and retract.

The dual LED lights mounted on each tower produce a total of 120,000 lumens of high intensity light while drawing only 1,000 watts. Fourty-Eight CREE® high output LEDs producing 1,250 lumens each are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° 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.

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.

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 80,0000 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.
Trailer: Durable, painted steel construction makes the trailer sturdy during use. The 24` long tandem axle light tower trailer securely holds the light masts to allow for raising and lowering heavy loads. Each axle is rated at 5,700 lbs and equipped with P235/80R16 tubeless tires and wheels. The rear axle is equipped with electric brakes. The trailer features a height adjustable pintle hitch that 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. The trailer is finished in industrial grade paint for protection against rust and corrosion and provides an attractive finish. The trailer is equipped with stop/tail/turn lights, side markers, and license plate light for meet with FMVSS and DOT regulations.
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.
Dual Hydraulic Masts: The trailer is equipped with two, three-stage hydraulic masts, designed to allow operators to quickly and safely deploy payloads up to 16` above the trailer deck. The dual masts are connected via a 20` long I-beam, allowing operators to suspend heavy equipment from the I-beam. The dual hydraulic masts elevate the I-beam to a total height of 16` above the trailer bed, and collapse to 8.5`. The masts are elevated using hydraulics. The base stage is stationary, the middle stage is raised via the primary hydraulic ram, and the top stage is then raised via a secondary hydraulic ram. Both side elevate and collapse at the same rate. No manual winch is required at any point of the elevation process which makes operation convenient and easy.
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: 150291

Export Control Classification Number (ECCN): EAR99

Options:

WAT-24X6.5-TNDM-2XLM-HA-16-2X500LTL-MOD1-Beam Angle

Example: WAT-24X6.5-TNDM-2XLM-HA-16-2X500LTL-MOD1-10SP

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

Links (Click on the below items to view):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**