LIGHT MAST OPERATION

Light Mast on Trailer
Part# LM EW TLR Series

Follow the steps below for operating the light mast.

EXTEND MAST

1. Position the trailer in the desired location. Ensure that the unit is **completely level**. When picking a location, ensure the mast is free and clear from any overhead obstructions.



***PICTURES SHOWN MAY VARY**

Towing checklist

- Mast is fully retracted and folded over.
- All pins are in place.
- All outriggers are retracted and rotated in a horizontal position.
- Safety chains are attached to tow vehicle.
- Hitch is secure.
- No loose objects are on the trailer.

2. Drop the trailer from tow vehicle. Use the tonge winch to attach/detach from tow hitch.

3. (If applicable) Attach equipment to mast head. Use appropriate measures for securing attached devices/antennas. Drill thru-holes as necessary. ***Do not exceed weight capacity listed on nameplate!***



4. Install mast head. *See mast head installation steps page 2.*

5. To extend the mast, begin by removing the top retaining pin from the mast holder.



6. Unlatch the cable preventing the mast from extending during transport. (If applicable)



7. Remove the retaining pin from the base of the mast and set aside.

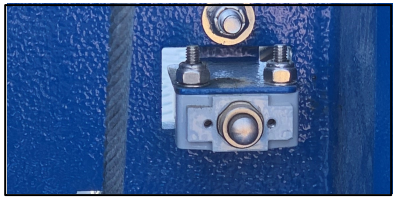


8. Plug the electric winch into a 120V rated power supply.

9. Turn the left switch on the control panel to FOLD UP. This will fold the mast to the upright position. When fully upright, the mast will depress the sensor switch found at the base. This will allow the mast to be raised.



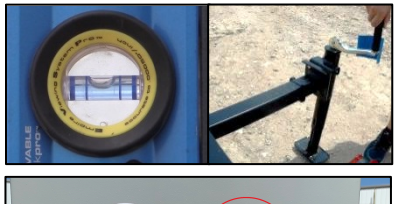
10. Once raised, **eplace the pin removed in Step 3!** This retaining pin will prevent the mast from falling over should the winch cable fail.



11. ***Mast must be level!*** Use a bubble level to level the mast before extending! Adjust outriggers until mast is level on all sides.



12. Use the right hand switch on the control panel to EXTEND. You should hear the motor stop when the mast is fully raised.



WARNING: *Ensure the mast retaining pin is installed at the base of the mast before elevating!*

LOWER MAST

1. To lower the mast, turn the right switch to RETRACT. The motor will stop when the mast is fully retracted.
2. **Remove the retaining pin from the base of the mast and set aside.** *This pin must be removed before folding the mast!*

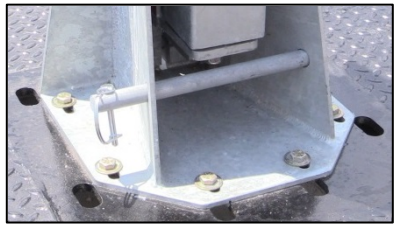




3. Turn the left switch to FOLD DOWN to fold the mast down to its travel position. The motor will stop when it is fully folded down.



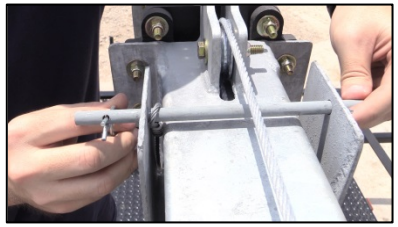
4. Replace the retaining pin on the base of the mast removed in **Step 2**.



5. Replace the cable preventing the mast from extending during transport.



6. Replace the top retaining pin of the mast holder.



WARNING: *Ensure mounted equipment does not exceed the capacity listed on the specifications!*

Replace all safety cables and pins before transport!

Be sure there are no loose objects on the trailer before transport!

If applicable, extend outriggers for maintaining stability while the mast is deployed!

Make sure to retract all outriggers when the trailer is being transported!

Ensure the trailer is not plugged in before moving the trailer!

ROTATING MAST (If applicable)

The mast can be rotated while lowered or elevated.

1. Loosen bolt(s) located toward center collar of light mast.



2. Rotate mast to desired angle.

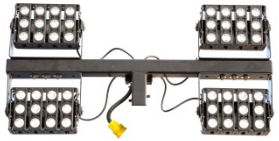
3. Tighten bolt(s) in order to secure mast in place.

When using power cables, minimize full 360° rotation to prevent tangling cord around light mast. *Ensure cables are not in the way or tangled when lowering mast!*

MAST HEAD INSTALLATION

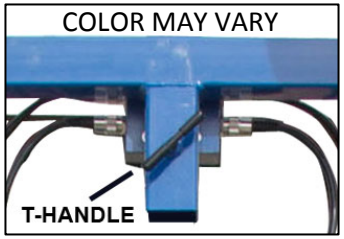
The light mast ships with the light head / T-head removed to prevent damage during transport. Follow the steps below for installing or removing light head.

1. Locate light head. Color, style, and mounted lights will vary.



2. The light head is equipped with a T-Handle / Hand Screw.

3. Make sure the hand screw is loose, to allow the head to slide over the top stage of the mast.



4. Using a pair of slings, wrap both slings around the light head in between the lights on both sides.



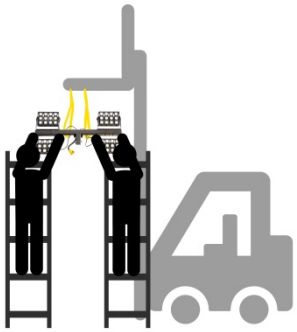
5. Attach the slings to a forklift or other lifting device.



6. With 2 people holding the light head steady, slowly raise the light head above the mast.

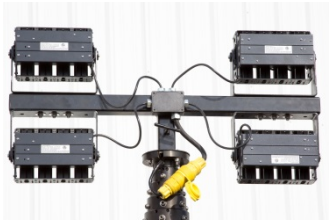


7. A ladder will need to be placed on both sides of the mast, in order for 2 people to guide the head in to place.



8. Once the light head is on top of the light mast, tighten the T-Handle to ensure the light head is safely secured to the top of the mast.

9. Make the electrical connections for the lights. Repeat this process in reverse order for removing the light head.



10. Proceed to the **OPERATION MANUAL** for operating the unit.

Slings are recommended for installing heavy loads and to ensure operator safety. Should other methods be used, Larson Electronics shall not be held responsible for damages or personal injuries.



LARSON ELECTRONICS

9419 US-HWY 175
Kemp, TX 75143 USA
P: 800-369-6671 | INTL: 903-498-3363 F: 903-498-3364
sales@larsonelectronics.com
www.larsonelectronics.com