

SPLT-LM20-LEDSCRN-TLR7

20' LED Screen Tower - RGB 3-in-1 Screen, 110/220V AC - Trailer Mount

Product ID: 306090

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-LM20-LEDSCRN-TLR7 Trailer Mounted 3-Stage Equipment Tower

Mast Specs

Tower Length: 12' to 20'

Mast Head Length: 44"

Materials: Steel

Finish: Powder Coated - Gloss Blue

Operation: (2) 1,000lbs Hand Winches, Electric Optional

Cable: 3/16" Galvanized Aircraft Cable

LED Screen Specs

Screen Size: 6.56'W x 4.9'H

Voltage: 110/220V 47-63 Hz

Power Consumption: 270W Average, 800W Max

Screen Resolution (Dots): 512W x 384H

Pixel Density: 65,536 pixel/m²

Brightness: 5,800 cd/m²

Brightness Adjusted: 256 Grade by Software or Auto-optic Induced

Driving Method: 1/16 Scan

Display Color: 439, 804, 651, 110

Viewing Distance: >13.12'

View Angle: Horizontal 160°; Vertical 160°

Color Contrast Ratio: 5,000:1

Gray Grade: 16bit

Refresh Frequency: 3,840

Communication Distance: <328' - Internet Cable, 1,640' - Multi Mode Fiber Cable, 65,616' Single Mode Fiber Cable

System: Windows 7/ 8/ 10 / 11

Quick Summary

12' to 20' Equipment Mast

Steel Construction

Power Coated Finish

Removable Mast Head

(4) 1,000lb Outriggers

125 mph Wind Resistance

Manual or Optional Electric Operation

IP65 LED Screen

100,000+ Hour Lifespan - LED Screen

Input Signal: DVI (S-VIDEO, CVBS, DP, HDMI, VGA, PAL/NTSC, etc. through video processor converting)

LED Module Pixel Pitch: 3.91mm

LED Module Pixel Config: SMD1921

LED Module Size: 1.6"W x 0.82"

LED Cabinet Size: 3.28"W x 3.28"H

LED Cabinet Resolution (Dots): 256Wx256/128H

Color Config: RGB 3in1

LED Red: 990-1,210 mcd, 160°/160° Viewing Angle, 625-630 nm

LED Blue: 495-605 mcd, 160°/160° Viewing Angle, 465-470 nm

LED Green: 990-1,210 mcd, 160°/160° Viewing Angle, 520-525nm

Ambient Temp Range: -25°C to +80°C

Cabinet Material: Aluminum

Mount: Trailer Mount

Trailer Specs

Materials: Steel

Trailer Dimensions: 7.5`L` x 7`W trailer bed - 10.75` total length

Hitch: 2" Ball Coupler

Wiring: 7-Pin Flat

Axle: 3,500lb

Suspension: 3,500 Lb 4-Leaf Double Eye Springs

Outriggers: (4) 1,000 Manual Leveling Jacks

Wheels: (2) 15" 5x4.5 Steel Rims

Tires: ST205/75/D15 H188

Weight: +-1500 lbs

Shipping: Common Freight

Shipping Dimensions: 8`-L x 8`-W x 12`-H

Shipping Weight: +-1800 lbs

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

Special Orders - Special Requirements

Contact us for special requirements

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E-mail: sales@larsonelectronics.com

Made in the USA

The Larson Electronics SPLT-LM20-LEDSCRN-TLR7 LED Screen Tower provides a safe and effective way for operators to quickly deploy an LED screen to elevations up to twenty feet. This unit features a telescoping tower that folds over for easy transportation, a rotating boom that allows for 360° of rotation and a removable mast head for storing the LED screen. The entire assembly is mounted onto a 7.5` single axle trailer, allowing operators to transport this equipment tower from location to location.

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

This LED screen tower includes an LED screen and manual crank up mast mounted on trailer with outriggers. Operators can transport the system from location to location using the single-axle trailer.

Light Mast: This telescoping three stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy the LED screen in locations where this equipment must be elevated to heights up to 20` for effective coverage. This light boom can be extended to 20` above the trailer floor for maximum area coverage, and collapsed to 12` for applications where a footprint smaller is required. The tower is constructed of square steel tubing with a base section 6.6` in length and 6" by 6" by 3/16" thick, lower section 6.78` in length and 5" by 5" by 3/16" thick, middle section 6.93` in length and 4" by 4" by 1/8" thick, upper section 7.08` in length and 3" by 3" by 1/8" thick, and top section 7.58` in length and 2" by 2" by 1/8" thick. Each section has a 1` + overlap. The mast is extended to its full height using an included 1,000lb rated hand winch with 3/16" galvanized steel cable.

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 LED screen. When elevated to its full upright position, the mast can be rotated a full 360°. By loosening the T-Handle, operators can rotate the mast with easy in

either direction. The mast can be positioned in one of four different positions, and locked back in place by re-tightening the T-handle. The mast itself spins freely with easy, and can typically be rotated with a single hand. The LM series of towers are powder coated with glossy blue finish for corrosion resistances 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 outriggers can be extended 2' out from the side of the trailer for added stability. When lowered to 12', the mast can withstand winds up to 125 mph. Custom builds can be provided for higher wind speed resistance when fully raised.



44" Mast Head for mounting lights and equipment
[Click Image to Enlarge](#)



Mast folds over for transportation and when not in use
[Click Image to Enlarge](#)

LED Screen: This light plant is equipped with an LED screen at the top of the mast. Compatible with 110/220V AC, the RGB 3-in-1 screen measures 6.56'W x 4.9'H. This 270-watt unit has a 512x384 resolution. The screen is IP65 rated for indoor and outdoor use. Each LED cabinet is protected by an aluminum frame. Compatible with Windows operating system, the following input signals are available: DVI (S-VIDEO, CVBS, DP, HDMI, VGA, PAL/NTSC, etc. through video processor converting).

LED Technology: 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.

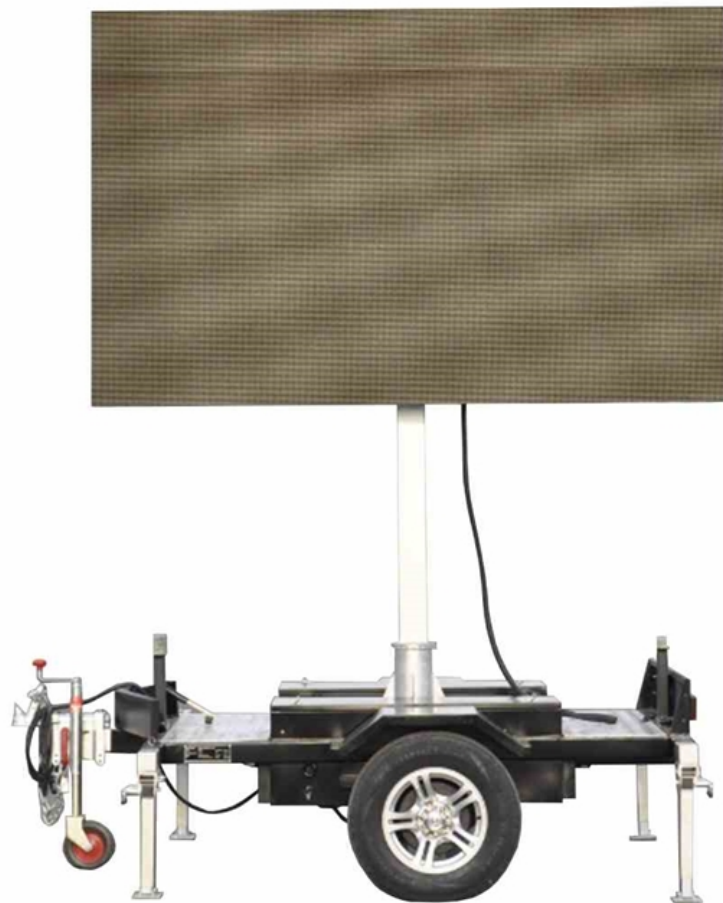
Component Control Center: All the electrical components are encapsulated in a NEMA 3R job box that is bolted to the trailer. Since most of these components are not rated for high heat, our component cooling system circulates air within the job box at 1400 CFM when the ambient temperature exceeds 90 degrees Fahrenheit. The job box that contains the component control system includes locks for security purposes.

Trailer Assembly: The entire assembly is mounted to a 7.5' by 7', single axle trailer via six 1/2" anchor bolts. The two wheel trailer is equipped with 3,500 lbs axle and leaf springs with 15" trailer tires. 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 removed for long term deployment. A rugged and waterproof job box is included, safely secured to the trailer. Four outriggers mounted to the corners of the trailer allow operators to level the trailer, and provide stabilization during deployment. All trailer lighting complies with DOT/FMVSS regulations.

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)





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Export Control Classification Number (ECCN): EAR99

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