

LM-20-6.5-5S-FM-EW-2XPTZ-BSTR

20' 5-Stage Fixed Mount Security Mast - 6.5' to 20' - (2) PTZ Cameras, (1) Blue LED Strobe - Electric Winch

Product ID: 306644

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-20-6.5-5S-FM-EW-2XPTZ-BSTR Five Stage Telescoping Light Tower

Mast Specs

Length: 6.5'-20'

Weight: +/-315 lbs

Payload Capacity: 150 lbs

Materials: Steel

Finish: Powder Coated - Glossy Blue

Operation: 2,500lbs Electric Winch

Cable: 3/16" Galvanized Steel Aircraft Cable

Winch Voltage: 120V or 240V AC 50/60 Hz

Mounting: 1/4" thick, 13"x15" Base Plate

Anchor Bolts: (6) 9/16" Anchor Bolts (not included)

Strobe Specs

Strobe Type: LED

Color: Blue

Camera Specs

Qty: (2) Security Cameras

Dimensions: 14.38" H x 7.12" D

Camera Weight: 9 lbs

Total Watts: 25.5 (Max)

Voltage: 24V AC (PoE - 802.3at)

Image Sensor: CMOS

Connectors: 1.0Vp-p, 75 Ohm, BNC

Effective Pixels: 2.1 MP, 1920 x 1080 Resolution

Min. Illumination: 0.02 Lux @ F1.6 AGC On, 0 Lux w/ IR

Electronic Shutter: 1 ~ 1/10,000s

Lens: 4.7-94mm Varifocal Lens

Angle of View: 58.3° (Wide) ~ 3.2° (Tele)

Optical Zoom: 20x

Day/Night: ICR

IR Distance: 492' (850 nm)

Video Framerate: 1080p @ 30fps

Video Offload: MP4

Video Output: (1) BNC

Language: English

Ambient Temperature Range: -22°F to 149°F

Quick Summary

Made in the USA

6.5' to 20' Light Mast

Steel Construction

Powder Coated Finish

125 mph Wind Resistance

Electric Operation

IP66 Waterproof Cameras

Day/Night Monitoring

De-fog Viewing (Rain and Fog)

360° Rotation, -15°~90° Tilt

492' IR Distance

Full-HD, 20x Optical Zoom

Motion Detection

Housing Materials: Aluminum

Lens Material: Polycarbonate

Mounting: Tower

Color: Beige/Black

Shipping: Common Freight

Shipping Dimensions: 7'L x 4'W x 3'H

Shipping Weight: +-350 lbs

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

Special Orders - Special Requirements

Contact us for special requirements

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Made in Texas

The LM-20-6.5-5S-FM-EW-2XPTZ-BSTR from Larson Electronics is a Fixed Mount 5-Stage Security Mast with Electric Winch that provides a safe and effective way for operators to quickly deploy two security cameras and one blue LED strobe light to elevations up to 20'. This crank up light tower features a rotating boom that allows for 360° of rotation and a removable mast head for storing mounted equipment when not in use. The LM-20-6.5-5S-FM-EW-2XPTZ-BSTR features an electric winch for easy extension and retraction.

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

This telescoping five stage steel light mast from Larson Electronics is designed to allow operators to quickly and safely deploy two security cameras and one blue strobe light in locations where this equipment must be elevated to heights up to 20' for effective coverage. This light boom can be extended to 20' for maximum area coverage and collapsed to 6.5' for applications where a smaller footprint is required. This allows operators to collapse the mast and leave it in the upright position during transit if desired depending on equipment mounted to the mast head).

Camera Features: The LM-20-6.5-5S-FM-EW-2XPTZ-BSTR features two security cameras for site monitoring. The cameras provide operators with crisp 1080p full-HD high resolution images. A 4.7-94mm varifocal lens automatically adjusts focus, providing operators with precise 20x optical zoom levels. Integrated long-range IR LEDs, with a wavelength measurement of 850 nm, enable the day/night camera to see distances up to 492' under nighttime conditions. This unit offloads videos in MP4 format and features H.264 and MJPEG video compression.

The IP security camera is designed to perform in outdoor locations and rainy conditions. This IP66-rated unit resists the negative effects of non-corrosive liquids. De-fogging features enable the unit to operate in rainy and foggy conditions. This device is capable of operating in temperatures between -22°F and 149°F.

The security camera is designed to operate on 24V AC or PoE (IEEE802.3at). Link-up with the device is achieved via a customer provided cable. The cable video/power drop cable can be routed either through the mounting surface or through a cable guide on the edge of the mounting base.

Our cameras with Power over Ethernet (PoE) features enable data transfers and power to be passed through a single Ethernet cable that is usually a Cat 3/Cat 5 cable or better. There are several types of PoE, which come with their own respective standard and maximum power to port capabilities. The IEEE 802.3af PoE standard, with a voltage range of 44.0 - 57.0V, offers 15.4W of DC power for each port. The IEEE 802.3at PoE standard, with a voltage range of 50.0 - 57.0V, provides up to 30W of DC power per port, which is ideal for surveillance cameras, antennas and network access points. The IEEE 802.3bt PoE standard, with a voltage range of 50.0 - 57.0V, provides 60W of DC power for each port. In order to utilize PoE properly, the components, such as the receiving unit and sending device, must be PoE compliant.

Mast: The tower is constructed of square steel tubing with a base section 4.54' in length and 6" by 6" by 3/16" thick, lower section 4.73' in length and 5" by 5" by 3/16" thick, middle section 4.92' in length and 4" by 4" by 1/8" thick, upper

section 5.10` in length and 3" by 3" by 1/8" thick, and an top section 5.60` in length and 2" by 2" by 1/8" thick. Each section has an overlap of at least 12 inches. The mast is extended to its full height using an included 2,500 lbs electric winch with 3/16" galvanized steel cable.



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The LM series of towers are powder coated with glossy blue finish for corrosion resistance and aesthetics. These light masts are typically mounted to trailers or other stable surfaces via a 15" by 13" by 1/4" thick mounting base-plate which has been drilled to accept six 9/16" anchor bolts. 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 light fixtures and equipment.

The LM family of telescoping towers feature a proprietary mast guidance system, which provide increased stability during high winds. When lowered, the mast can withstand winds up to 125 mph. 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 any direction 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 electric winch on this mast is offered in 120V or 240V AC 50/60 HZ. Additional voltage options are available at an additional charge. Larson Electronics can offer single phase and three phase AC winches, or low voltage DC winches.

This light tower weighs approximately 315 lbs, can easily support and lift 150 lbs.

The entire tower assembly is shipped via common freight carrier and when shipped measures approximately 7 feet long, 4 feet wide, 3 feet tall and weighs approximately 350 lbs. Larson Electronics can custom tailor these units to the customer`s requirements with longer sections and larger mounting plates. For example, the LM-30-3S is another model that reaches to a length of 30 feet, with a 14 foot lower section, 12 foot middle section, and a 8 foot upper section and a 4 foot wide upper mounting bracket. We also offer a choice of either the manual 1,000 lbs hand winches included standard or optional electric winches.

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 [LED10WSA-160](#), [LEDLB-200X2E](#), [LEDLB-160X2E](#) or [LEDLB-80x2E](#). 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)