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WCDE-2-MHL-4X8MP-2TB-M1

25' Telescoping Mobile Security Light Tower - 5.5 kW Diesel Gen - (2) MH, (4) 8MP Cameras, 2TB NVR

Product ID: 295551

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.

WCDE-2-MHL-4X8MP-2TB-M1 25` Telescoping Mobile Light Security Tower

Genset Specs:
Engine: Kubota Z482 EPA Tier 4
Engine Type: Vertical, Liquid-cooled, 4-cycle Diesel Engine
Engine Speed: 3,600 RPM
No. of Cylinders: 2
Generator: Sincro EK 2 MCT
Generator Capacity: 5.5 kW
Voltage: 120V Single Phase
Battery 12V
Fuel Cell Capacity: 28 Gallons
Fuel Delivery: Electric
Noise Level: Db level 73 @ 23 ft

Light Mast Specs:
Mast Type: Manual Crank-Up
Boom Height: Up to 25`
Materials: Galvanized Steel
Operation: Manual Hand Crank Winch
Winch: 2500lb, Self-Braking
Stages: Five

Light Specs:
Lamp Type: Metal Halide

Ratings/Features
5.5kW Kubota Genset
28 Gallon Fuel Cell
Up to 50+ Hour Continuous Operation
External Grounding
Low Oil, High Engine Temp Auto Shut-Off
Hour Meter - Alternator Warning
(2) High Output MH Lamps
220,000 Total Lumen Output
Independently Adjustable Light Heads
Individual Light Switch Circuit Breakers
Dial-in Adjustability per light head
110 Lumens Per Watt Efficiency
Steel Trailer w/ Industrial Grade Paint Finish
Four Point Outrigger System
Withstands 50 Mph Winds at Full Extension
(4) IP67 Cameras
Day/Night Monitoring
De-fog Viewing (Rain and Fog)
0 ~ 355° Rotation, 0°° ~ 75°° Tilt
120' IR Distance
Full-HD
Motion Detection
IK10 Vandal-proof

Lamp Qty: (2)
Total Watts: 2,000W
Single-lamp Watts: 1,000W
Total Lumens: 220,000 lms
Single-lamp Lumens: 110,000 lms
Luminous Efficacy: 110 lm/w
Color Temperature: Neutral White - 4100K
Life Expectancy: 20,000 hours
Coverage: 5 Acres

Security Camera Specs:
Camera Type: Infrared Security Camera
Camera Qty: (4)
Camera Location: One Camera per Side of the Mast
Single-camera Dimensions: 6.04" x 5.42"
Single-camera Weight: 2.8 lbs
Total Watts: 48W
Voltage: 12V DC (PoE - 802.3af Class 3)
Image Sensor: Progressive Scan CMOS
Megapixels: 8.0 MP, 3840 × 2160 Resolution
Min. Illumination: 0.0 (B/W, IR On), 0.008 (Color)
Electronic Shutter: 1/3s ~ 1/100,000s
Lens: 2.8 mm - 12 mm Focal Length
Angle of View: 112° ~ 46° Field Of View
Optical Zoom: Fixed
Day/Night: True D/N w/ Mechanical Cut Filter
IR Distance: 120'
Video Framerate: 8MP @ 20 fps; (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) @ 30 fps
Video Offload: MP4
Video Output: (1) RJ-45
Language: English
Ambient Temperature Range: -22°F to 140°F
Housing Materials: Aluminum
Lens Material: Polycarbonate
Mount: Mast
Color: White

Video Recorder Specs:
Video Recorder Type: 3300 Series 8-Channel Network Video Recorder
Storage Capacity: 2TB
Ethernet Speed: X1 10 /100/1000 Mbps Self-Adaptive Ethernet Interface x8 10 /100 Mbps PoE Ethernet Interfaces
Bit Rate: 80 Mbps Incoming, 160 Mbps Outgoing
Compression Type: H.265/H.264/H.264 OVC
Recording Resolution: Up to 8 MP
Frame Rate (fps): Up to 60fps Per Channel
Recording Modes: Schedule, Continuous, Motion Detection and Event
Video Offload: MP4
Operating Humidity: 10% ~ 90%
Operating Temp: 14°F ~ 131°F
Input: (1) RCA
Outputs: (1) RCA, (1) VGA, (1) HDMI, (1) USB 2.0 (front), (1) USB 3.0 (rear)
Dimensions: 1.8" H x 15" W x 11.4" D
Weight: 6.6 lbs

Trailer Specs
Materials: 14ga Sheet Steel Enclosure, 12ga Formed Steel Chassis
Hitch: 2in ball / pintle combo
Finish: Industrial Grade Paint
Axle: (1) 2,000 lbs
Suspension: 2,000 lbs Double Eye Leaf Springs
Outriggers: (4) Adjustable Outriggers w/ 2,500 lbs Manual Leveling Jacks
Lighting: DOT Approved tail, side, brake, and directional lights
Wheels: (2) 13" 5x4.5 Steel Rims
Tires: 155R13

Special Orders - Special Requirements
Contact us for special requirements

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Made in Texas

The WCDE-2-MHL-4X8MP-2TB-M1 Telescoping Mobile Security Light Tower from Larson Electronics is a towable lighting package powered by a water cooled diesel engine turning a single bearing 5,500-watt generator. There are four security cameras on this unit (one camera per side of the mast), supported by a 2TB NVR at the base of the tower. With two 1,000-watt metal halide lamps producing 220,000 lumens this unit will illuminate a 3-5 acre area continuously without refueling for up to 50 hours. This mobile security light tower may be used to monitor remote locations, such as construction sites, outdoor events, military bases, emergency camps, agricultural operations, commercial farming properties and anywhere an extended operation capable mobile lighting solution is needed.

The WCDE-2-MHL-4X8MP-2TB-M1 mobile security light tower is a self contained towable light tower package that produces enough light to illuminate an area up to 5 acres in size. This unit contains a water cooled diesel engine powering a 5,500-watt generator, which supplies the current to two 1,000 watt metal halide lamps producing 110,000 lumens each for a combined total of 220,000 lumens of light and four security cameras. This unit can run uninterrupted for 50 hours straight without refueling and includes a telescoping light mast which can elevate the two metal halide lamps and four cameras to a height of 25 feet.

Camera Features: This system features four security cameras, with one camera per side of the mast. Each camera provides operators with a 1/2 Progressive Scan CMOS that delivers 8.0 MP (3840 x 2160 pixels) resolution at 20 fps and (2560 × 1920, 2560 × 1440, 1920 × 1080, 1280 × 720) at 30 fps. The 2.8 mm - 12 mm motorized varifocal lens on this camera offers a 112° - 46° field of view and has 120 dB 3D Digital Noise Reduction (DNR) that helps capture better images in almost any situation. This combined with the camera's 0.008 (color) and 0.00 (black/white, IR On) low lux rating improves night-time performance. H.265+ video compression format offers superior image quality and bandwidth. It also fosters faster, more fluid remote viewing, along with the ability to view more channels remotely. This IP camera also features H.265+ compression, which enables users to store more information with less storage space. This camera also supports H.265, H.264, and H.264+.

The IP security cameras are designed with a vandal resistant housing to perform in outdoor locations and rainy conditions. The IP67-rated units resist the negative effects of non-corrosive liquids. De-fogging features enable the units to operate in rainy and foggy conditions. The devices are capable of operating in temperatures between -22°F and 140°F.

The security cameras are designed to operate on 12V DC or PoE (802.3af Class3). 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.

For video recording options, the tower comes with a NVR, mounted at the base of the unit. This component is locked to prevent tampering or theft. The 3300 Series 8-Channel NVR supports 2TB of storage and 80/160 Mbps incoming/outgoing bit rate. This unit features four recording modes (Schedule, Continuous, Motion Detection and Event) with MP4 video offload format. One RCA input and four output (VGA, HDMI, USB 2.0 and USB 3.0) slots can be found on the NVR.*Note: Reviewing footage must be done by connecting a monitor and mouse to the unit (supplied separately).*



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Click Photo to Enlarge



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The WCDE-2-MHL-4X8MP-2TB-M1 mobile light tower incorporates a long list of impressive features. The diesel engine is a water cooled Kubota that operates at 3600 rpm. This engine features key operated electric starting, a full twelve volt electrical system, automatic low oil pressure and high temperature safety shutoffs, dual fuel filters and easy access oil and radiator drain ports to facilitate maintenance. A 28-gallon fuel tank allows the engine to operate for 50 hours continuously without refueling. The 5,500 watt generator is a single bearing design and produces 120/240 volt current at 60 Hz. The generator uses a four wire hookup system with an external ground allowing for setting up both electrical and mechanical safe grounding systems.



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Lights: The lighting system on this unit is comprised of two 1,000-watt metal halide lamps producing 110,000 lumens of light each attached to the end of the telescoping light boom. These floodlights produce a wide flood light pattern capable of illuminating a minimum of 5 acres with a combined total of 220,000 lumens of light. 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 connected to the power source via a water tight male pin connector that attaches to a receptacle located on the end of the telescoping boom.



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Controls: The operations system for this unit is a centrally located control panel within the light tower enclosure. Two circuit breaker protected switches allow individual

control of the lights while an individual hour meter tracks unit operating time. Also included is an alternator warning light, fuel primer system, preheating switch and a 120 volt GFCI duplex receptacle for auxiliary power takeoff.**Telescoping Boom:** The telescoping boom consists of five sections extending up to 25 feet through the use of a manual self braking winch and allows for rotating the lights 360 degrees. The telescoping boom is constructed of galvanized steel to resist rusting and corrosion and is capable of withstanding 50 mph winds when extended to its full height and the stabilizing outriggers are deployed. The stabilizing outriggers are a four point design with one located under the trailer tongue, two on the sides and one on the back of the unit. The two side outriggers are adjustable and include 1,000 lbs swivel jacks for leveling and stabilizing the tower.**Housing:** All of the operating components are housed within a protective compartment constructed of 14 gauge steel and designed to provide airflow for cooling. A spillage free frame with an external drain system will contain all fluids to prevent road hazards or damage to the environment. Side wing doors provide access to the interior while latches provide secure closing when the unit is in use. The design and construction of this enclosure along with the commercial grade muffler system helps this unit operate at a low 73 Db noise level @ 23 ft. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the top section of the light mast. The entire unit is mounted onto a two wheel trailer with a 2,000 lbs leaf spring axle. A standard two inch ball coupling and two standard safety chains allow for easy hookup and towing.**Applications:** Security systems, remote surveillance, general locations, law enforcement, police, indoor/outdoor facilities, commercial establishments, monitoring, military, industrial sites and more.
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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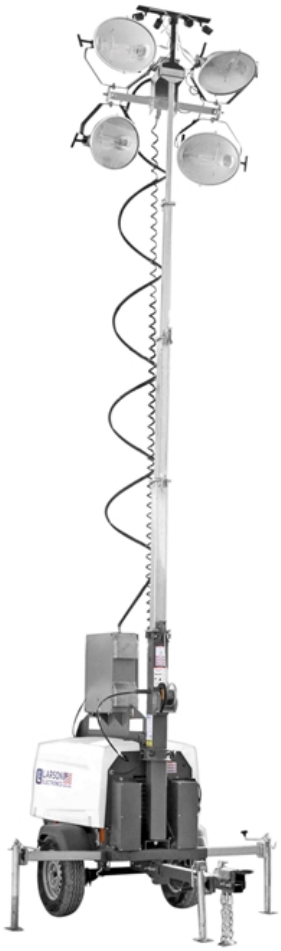
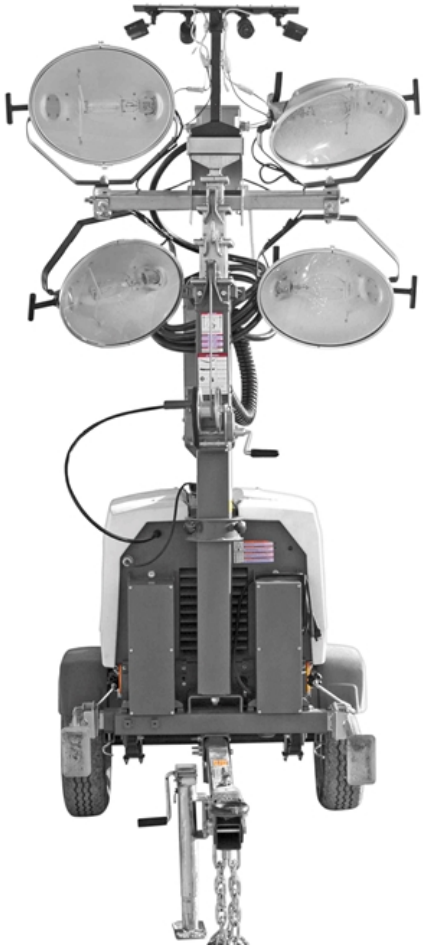
Frequently Asked Questions (FAQ)









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Product ID: 295551

Export Control Classification Number (ECCN): EAR99

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