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WCDE-4-MHL-4X3MP-2TB

25' Telescoping Mobile Security Light Tower - 7.5 kW Diesel Generator - 4 MH, 4 Cameras - 2TB NVR

Product ID: 146514

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: WCDE-4-MHL-4X3MP-2TB

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-4-MHL-4X3MP-2TB Telescoping Mobile Light Security Tower - 7.5 kW Diesel Generator - 4 MH, 4 Cameras - 2TB NVR

Genset Specs:

Engine: Kubota Z482 EPA Tier 4
Engine Type: Vertical, liquid-cooled, 4-cycle diesel engine
Engine Speed: 3600 RPM
No. of Cylinders: 2
Generator: Sincro EK 2 MCT
Voltage: 120V Single Phase
Battery 12V
Fuel Cell Capacity: 28 Gallons
Fuel Delivery: Electric
Noise Level: Db level 73 @ 23 ft

Protection

6.8KW 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
High Output MH Lamps
440,000 Total Lumen Output
Independently Adjustable Light Heads
Individual Light Switch Circuit Breakers
Dial-in Adjustability per light head
110 Lumens Per Watt Efficiency

Light Mast Specs:

Mast Type: Manual Crank-Up
Boom Height: Up to WCDE-4-MHL-4X3MP-2TB
Materials: Galvanized Steel
Operation: Manual Hand Crank Winch
Winch: 2500lb, Self-Braking

Steel Trailer w/ Industrial Grade Paint Finish
Four Point Outrigger System
Withstands 50Mph Winds at Full Extension
IP66 Camera

Stages: Five

Light Specs:
Lamp Type: Metal Halide
Lamp Qty: 4
Total Lumens: 440,000 (110,000 per lamp)
Luminous Efficacy: 110 lm/w
Color Temperature: Neutral White - 4100K
Life Expectancy: 20,000 hours
Coverage: 6 to 7 Acres

Security Camera Specs:
Camera Type: Infrared IP Camera
Power Supply: 12V DC
Sensor: CMOS
Viewing Angle: 79 Degrees
Connectivity: IP/Network Wired
Lens: 4mm @ F2.0
Minimum Illumination: 0.07 Lux
Network Interface: RJ-45 10/100Mb Ethernet Slot
Pixels: 3MP Mini CCTV Camera
Image Resolution: 2048 x 1536
System Capacity: ONVIF, PSIA, CGI, ISAPI
Video Compression: H.264/M-JPEG

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

Total Dimensions: 70"T x 160"L x 60"W
Total Weight: 2,200 Lbs

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
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Made in Texas

The WCDE-4-MHL-4X3MP-2TB-4X3MP-2TB mobile security light tower from Larson Electronics is a towable lighting package powered by a water cooled diesel engine turning a single bearing 7,500 watt generator. There are four, PoE powered IP cameras mounted on this unit, supported by a 2TB NVR at the base of the tower. With four 1,000 watt metal halide lamps producing 440,000 lumens this unit will illuminate a 6-7 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-4-MHL-4X3MP-2TB mobile security light tower is a self contained towable light tower package that produces enough light to illuminate an area up to 7 acres in size. This unit contains a water cooled diesel engine powering a 7,500 watt generator, which supplies the current to four 1,000 watt metal halide lamps producing 110,000 lumens each for a combined total of 440,000 lumens of light. This unit can run uninterrupted for 50 hours straight without refueling and includes a telescoping light mast which can elevate the four metal halide lamps to a height of 25 feet.

This mobile security light tower features four, PoE powered IP cameras, fix mounted on the tower. Glare shields can be found on the unit, which prevents light from interfering with the camera. Each camera supports up to 3 megapixels (2048 x 1536 resolution), 4mm lens with a 79-degree viewing angle, a CMOS sensor, and an infrared LED array with automatic cutover for low light recording. The camera may be used with a RJ-45 10/100Mb ethernet slot.

Resolution	Frame Rate	Operation	Record Time
720p	15	24/7	16 Days
720p	25	24/7	6 Days
2MP	15	24/7	7 Days
2MP	25	24/7	4 Days
1080p	15	24/7	7 Days
1080p	25	24/7	3 Days
3MP	15	24/7	4 Days
3MP	25	24/7	3 Days

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).



Click Photo to Enlarge



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The WCDE-4-MHL-4X3MP-2TB 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 7,500 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.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Lights: The lighting system on this unit is comprised of four 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 440,000 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.



Click Photo to Enlarge

Controls: The operations system for this unit is a centrally located control panel within the light tower enclosure. Four 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 conatain 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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/146514.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com/images/product/WiringDiagram/146514.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/146514.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/146514.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/146514.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/146514.JPG)
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- **HigResPic8**(https://www.larsonelectronics.com/images/product/HigResPic8/146514.JPG)
- **HigResPic9**(https://www.larsonelectronics.com/images/product/HigResPic9/146514.JPG)
- **HigResPic10**(https://www.larsonelectronics.com/images/product/HigResPic10/146514.JPG)
- **Video1**(https://www.youtube.com/watch?v=GuWyI9aHz0Q)
- **Video2**(https://www.youtube.com/watch?v=04RPFD7IAu4)
- **Video3**(https://www.youtube.com/watch?v=dzM8vFF-Oc4)
- **Video4**(https://www.youtube.com/watch?v=1VsIFwQwhZM)
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