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WCDE-4-4X2MP-PTZ-4X1000W-MH-2TB-W4G

25' Mobile Security Tower - 6 kW Diesel Gen - 4 Metal Halide Lamps - 4 Cameras - 2TB NVR - Router/4G

Product ID: 150165

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-4-4X2MP-PTZ-4X1000W-MH-2TB-W4G Telescoping Mobile Security Tower

Genset Specs:
Engine: Kubota D1105-BG-ET01
Engine Type: Vertical, liquid-cooled, 4-cycle diesel engine
Engine Speed: 1800 RPM
No. of Cylinders: 3
Generator: Marathon Pancake 6KW 4-Pole Brushles
Voltage: 120/240V Single Phase
Battery: 12V
Fuel Cell Capacity: 30 Gallons
Fuel Delivery: Electric
Noise Level: Db level 63 @ 23 ft

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

Security Camera Specs:

Features/Specifications

6KW Kubota Brushless Genset
30 Gallon Fuel Cell
Up to 120+ Hours Continuous Operation
External Grounding
Low Oil, High Engine Temp Auto Shut-Off
Hour Meter - Alternator Warning
Steel Trailer w/ Industrial Grade Paint Finish
Four Point Outrigger System
Withstands 50Mph Winds at Full Extension
IP66 Camera
492` IR Recording Distance
2TB NVR
Professional Grade Router
Extended Coverage via External Antenna
Verizon 4G Hotspot
Weatherproof Coiled Cable
Padlocks for Security

Camera Type: Security Camera
Dimensions:14.38" H x 7.12" D
Connectors:1.0Vp-p, 75 Ohm, BNC
Effective Pixels: 2.1 MP, 1920 x 1080 Resolution
Power Supply: 24V AC (PoE - 802.3at)
Sensor: CMOS
Viewing Angle: 58.3° (Wide) - 3.2° (Tele)
Connectivity: IP/Network Wired
Infrared Range/Wavelength: 492`/850 nm
Minimum Illumination: 0.02 Lux @ F1.6 AGC On, 0 Lux w/ IR
Electronic Shutter: 1 ~ 1/10,000s
Lens: 4.7-94mm Varifocal Lens
Optical Zoom:20x
Day/Night: ICR
Video Framerate: 1080p @ 30fps
Video Offload: MP4
Ambient Temp Range: -22°F to 149°F
Video Output: (1) BNC
Housing: Aluminum
Lens: Polycarbonate

Video Recorder Specs:
Video Recorder Type: 3300 Series 8-Channel Network Video Recorder
Storage Capacity: 2 TB SATA Hard Drive
Camera Resolution Support: Up to 8MP
Installation Type: Plug and Play
Incoming/Outgoing Bit Rate: 40Mbps/80Mbps
FPS: 60fps Per Channel
Compression Format: H.265, H.264, H.264 OVC
Recording Modes: Schedule, Continuous, Motion Detection, VCA and Event
Export Format: MP4
Video Outputs: (1) RCA, (1) VGA, (1) HDMI, (1) USB 2.0 (Front), (1) USB 3.0 (Rear)
Two-way Audio Input: 1-ch, RCA
Power Over Ethernet: = 120W, Supported Standards- 802.3af and 802.3at
Alarm Input: 4x (Rear Panel), Camera Dependent
Alarm Output: 1x (Rear Panel), Camera Dependent Protocols: IPv4, TCP/IP, UDP, HTTP, UPnP, RTSP/RTP/RTCP, SMTP, FTP, DHCP, NTP, DNS, ONVIF, HTTP Multipart
Power Requirements: 100 ~ 240 VAC
Housing: Aluminum
Operating Temp: 14°F ~ 131°F
Dimensions: 15” W × 11.4” D × 1.8” H
Weight: 6.6 lbs

Router/Antenna Specs:
Router Type: Pepwave Surf SOHO Router
WAN Interface: 1x 100/1000M Ethernet Port, 1x USB 2.0 Interface, Wi-Fi as WAN
LAN Interface: 4x 100/1000M Ethernet Ports, Simultaneous Dual-Band 11ac Wi-Fi AP
Wi-Fi AP Operating Frequency: 2412 - 2472MHz and 5180 - 5825MHz
Wi-Fi Data Rates: 3x3 MIMO, 2.4GHz: 450Mbps or 5GHz: 1300Mbps
Wi-Fi Antenna: 3x External Wi-Fi Antenna
Router Throughput: 120 Mbps
Power Input: DC Jack: 10V - 24VDC AC Adapter: AC Input 100V - 240V, DC Output 12V, 3A
Power Consumption: 26W (w/ USB WAN), 22W (w/o USB WAN)
Dimensions: 9.17` x 5.6` x 1.18`
Weight: 0.86 lbs
Humidity: 15% - 95% (Non-condensing)
External Antenna Frequency: 690~960 MHz, 1710~2170 MHz, 2500~2700 MHz
External Antenna Gain: 5dB
External Antenna Height: 12`

LED Light Specs:
Lamp Type: Metal Halide
Lamp Qty: 4
Total Lumens: 440,000 (110,000 lumen Per Lamp)
Luminous Efficacy: 110 lm/w
Total Lumens: 86,400 Lm (21,600 Per Lamp)

Luminous Efficiency: 144 lm/w
LED Color Temperature: 4100k
LED Life Expectancy: 20,000 hours
Coverage: 6 to 7 Acres

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
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Made in Texas

The WCDE-4-4X2MP-PTZ-4X1000W-MH-2TB-W4G mobile security tower from Larson Electronics is a full standalone security surveillance package with remote monitoring, powered by a water cooled diesel engine turning a single bearing 6,000 watt generator. There are four, PTZ day/night IP cameras mounted on this unit, supported by a 2TB NVR at the base of the tower, four 1,000 watt metal halide flood lights producing 440,000 total lumens of intense light, a professional grade router with an external antenna and remote viewing via Verizon 4G service (contract, additional monthly fee). The entire system can run continuously for 120+ hours on a full tank of fuel.

The WCDE-4-4X2MP-PTZ-4X1000W-MH-2TB-W4G tower is a self-contained towable security tower package that is capable of reliable monitoring in outdoor locations. This unit contains a water cooled diesel engine powering a 6,000 watt generator, which supplies the current to four pan tilt zoom cameras, network video recorder and router with an external antenna. This security system can run uninterrupted for 120+ hours straight without refueling. For optimal positioning, the unit includes a telescoping mast, which can elevate the four cameras and 4 LED lights to a height of 25 feet. A NEMA 4X-rated box at the top of the mast houses the ethernet switch and provides junctioning for the cameras. The package comes with Verizon 4G service for wireless remote viewing (contract, additional monthly fee).

Generator: The WCDE-4-4X2MP-PTZ-4X1000W-MH-2TB-W4G mobile light tower incorporates a long list of impressive features. The diesel engine is a water cooled Kubota that operates at 1800 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 30 gallon fuel tank allows the engine to operate for 120+ hours continuously without refueling. The 6,000 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.

Cameras: The WCDE-4-4X2MP-PTZ-4X1000W-MH-2TB-W4G features four IP security monitoring devices providing operators with crisp 1080p full-HD high resolution images. Each camera includes a 4.7-94mm varifocal lens thtat 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 cameras to see distances up to 492` under nighttime conditions. This units offload videos in MP4 format and feature H.264 and MJPEG video compression. These IP security cameras are designed to perform in outdoor locations and rainy conditions with the addition of de-fogging features. This IP66-rated units resists the negative effects of non-corrosive liquids and capable of operating in temperatures between -22°F and 149°F.

NVR/Router: For video recording, the tower comes with one NVR, mounted at

the base of the unit. This component is locked to prevent tampering or theft. The 8-Channel NVR supports 2TB of storage and 40/80 Mbps incoming/outgoing bit rate at up to 60fps per channel. To maximize storage, the unit supports H.265, H.264, and H.264 OVC video compression. 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. The network recorder is compatible with two-way audio streaming (camera dependent) and includes 9 ethernet ports (RJ-45 interface). During recording, the unit handles the following data: activity log, email notification, event log, event notification, video analytics and event search.
Note: Reviewing footage must be done by connecting a monitor and mouse to the unit (supplied separately).
Wireless Capability: Operators can connect to Verizon 4G internet via a professional-grade router. The unit supports dual-band 2.4 GHz (450 Mbps) and 5 GHz (1,300 Mbps), as well as 3x3 MIMO. Stateful firewall and DoS prevention ensures secure network usage during operation. Settings and configurations are controlled via a cloud-based smartphone app or web-based computer program. An external antenna is available for signal boosting and extending hotspot coverage. The antenna measures 12` and offers compatibility with the following frequencies: 690~960 MHz, 1710~2170 MHz and 2500~2700 MHz.
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
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 cameras 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.
Controls: The operating system for this unit is a centrally located control panel within the tower enclosure. 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.
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.
Trailer: 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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Applications: Security, monitoring, outdoor surveillance, covert operations, concerts, large events, law enforcement, military, perimeter security, commercial safety, industrial facilities 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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