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WCDE-6-4X2MP-PTZ-2TB-PA-W4G

25' Telescoping Mobile Security Tower - 7.5 kW Diesel Gen - (4) Cameras, PA System - 2TB NVR, Router/4G Hotspot

Product ID: 285693

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-6-4X2MP-PTZ-2TB-PA-W4G 25` Telescoping Mobile Security Tower

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

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:
Camera Type: Infrared IP Camera
Power Supply: 12V DC

Features/Specifications
6.8KW Kubota Genset
28 Gallon Fuel Cell
Up to 150+ Hours Continuous Operation
NEMA 4X Box
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

Sensor: CMOS
Viewing Angle: 59.8° (Wide) - 3.0° (Tele)
Connectivity: IP/Network Wired
Infrared Range/Wavelength: 492`/850 nm
Minimum Illumination: 0.02 Lux
Network Interface: RJ-45 10/100 BASE-T
Effective Pixels: 2.1 MP
Image Resolution:1920 x 1080
System Capacity: ONVIF, PSIA, CGI
Video Compression: H.264/M-JPEG

Video Recorder Specs:
Video Recorder Type: 3300 Series 8-Channel Network Video Recorder
Storage Capacity: 2 TB
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

PA System Specs:
PA Unit Type: 1-way Talking
Speaker: (2) 50W
Mount: Mast

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`

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-6-4X2MP-PTZ-2TB-PA-W4G mobile security tower from Larson Electronics is a towable surveillance package powered by a water cooled

diesel engine turning a single bearing 7,500 watt generator. There are four, PoE-powered infrared IP cameras mounted on this unit, supported by a 2TB NVR at the base of the tower, a professional grade router with an external antenna and remote viewing via Verizon 4G service (contract, additional monthly fee). Equipped with a PA system and two 50-watt speakers, the entire unit can run continuously for 150+ hours on a full tank of fuel.

The WCDE-6-4X2MP-PTZ-2TB-PA-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 7,500 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 150+ hours straight without refueling. For optimal positioning, the unit includes a telescoping mast, which can elevate the four cameras 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).

This mobile security tower features four, PoE-powered infrared IP cameras, fix mounted on the tower. Smart infrared features provide recording up to 492" via 850nm infrared bands. Each camera supports full-HD, up to 2.1 megapixels (1920 x 1080 resolution), with 20x optical zoom (16x digital zoom) and a CMOS sensor. Full, 360° coverage with -15°~90° tilt ensures comprehensive monitoring in the target location. The camera utilizes D-WDR and 3D-DNR to enhance images. The IP66-rated camera is constructed of aluminum with a polycarbonate bubble. A weatherproof, coiled cable provides connection up the mast to the junction box and to the cameras.

NVR/Router: For video recording, 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).

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.

PA System: This unit features a 1-way PA system and two 50-watt speakers. We can add a two-way system upon request and with additional cost.



Click Photo to Enlarge



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The WCDE-6-4X2MP-PTZ-2TB-PA-W4G mobile security 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 12V 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 150 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.

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.

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.

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, 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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Export Control Classification Number (ECCN): EAR99

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- **HigResPic1**
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- **Business Certificate**
- **Shipping Time Map**