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WCDE-4-4X2MP-PTZ-4X150LTL-LED-2TB-AP-W4G-M1

25' Telescoping Mobile Security Tower - 6 kW Diesel Gen - 4 LED Lamps - 4 Cameras - 2TB NVR - Router/WAP

Product ID: 271411

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-4X150LTL-LED-2TB-AP-W4G-M1 25` 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 Brushless
Voltage: 120/240V Single Phase
Battery: 12V
Fuel Cell Capacity: 30 Gallons
Fuel Delivery: Electric

Receptacle: (1) 30A L14-30R [120/240V]

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

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
Weatherproof Coiled Cable
Padlocks for Security

Security Camera Specs:
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 Varifoal Lens
Optical Zoom:20x
Day/Night: ICR
Video Framerate: 1080p @ 30fps
Video Compression: H.265 Codec
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 - GSM and CDMA Capable
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`
Local Wi-Fi Connectivity: Wireless Access Point

LED Light Specs:
Lamp Type: CREE® LED

Dimensions: 12.60"-L x 9.77"-W x 5.07"-D
Weight: 13.3 Lbs
Total Watts: 600W (150W Per Lamp)
Total Lumens: 81,000 Lm (20,250 Per Lamp)
Luminous Efficiency: 135 lm/w
Beam Configurations: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
LED Color Temperature: 6000k
LED Life Expectancy: 80,000 hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
Led Drive %: 90%
Voltage: 120-277 VAC
Amp Draw: 1.25A @ 120V, 0.625A @ 240V, 0.54A @ 277V
Wiring: 2.5` Pigtail w/ Flying Leads
Materials: Die Cast Aluminum Housing, PMMA Optics
Ambient Temperature Range: -40°C to +80°C
Waterproof Rating: IP67

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-4-4X2MP-PTZ-4X150LTL-LED-2TB-AP-W4G-M1 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 LED flood lights producing 81,000 lumens of intense light, wireless access point, a professional grade router with an external antenna and remote viewing capabilities. The entire system can run continuously for 120+ hours on a full tank of fuel.

The WCDE-4-4X2MP-PTZ-4X150LTL-LED-2TB-AP-W4G-M1 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, wireless access point 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.

Generator: The WCDE-4-4X2MP-PTZ-4X150LTL-LED-2TB-AP-W4G-M1 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. This 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-4X150LTL-LED-2TB-AP-W4G-M1 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 that 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. The units offload videos in MP4 format and feature H.264, H.265 codec 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. The IP66-rated units resist the negative effects of non-corrosive liquids and are 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 4G internet using a user-provided sim card from any major carrier (including T-Mobile, Sprint, AT&T, Verizon or any reseller of their services) via a professional-grade router. The GSM and CDMA capable 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. An included wireless access point provides local Wi-Fi connectivity for nearby devices. The radio signal on the wireless access point is tunable with standard channels.

Lights: The WCDE-4-4X2MP-PTZ-4X150LTL-LED-2TB-AP-W4G-M1 includes four GAU-LTL-150W-LED LED lights offering intense light output. These LED lamps produce 86,400 lumens total with a 6 amp draw at 120V, and feature an 80,000 hour service life with 120-277 volt compatibility, and a IP67 waterproof rating, making them a rugged and powerful LED alternative to metal halide lamps. Each 150 watt lamp is designed with Sixteen CREE® high output LEDs arranged in rows, paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights. These LED lights offer low power requirements, high durability and a versatile mounting system that makes these LED light emitters a superior lighting solution for demanding applications where power and reliability is critical.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units feature individual heat sinks per bank of six LEDs to control heat buildup rather than utilizing a single housing to dissipate heat. This allows for more thorough cooling of the LEDs for extended operating periods. This allows the LEDs to be driven at up to 90% capacity without overheating or visible loss of light output. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 80,000 hours.

Durability: As well as unparalleled heat control, the GAU-LTL-150W-LED series of LED lights from Larson Electronics also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The CREE® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,0000 hours of use. We recommend these LED lights for use in applications where

a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.
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 120/240 volt L14-30R 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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WCDE-4-4X2MP-PTZ-4X150LTL-LED-2TB-AP-W4G-M1

Product ID: 271411

Harmonized System (HS) Code: 9405.41.84.10

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Links (Click on the below items to view):

- Catalog Page - Product Series
- Operations Manual
- Wiring Diagram (Oneline)
- HigResPic1
- HigResPic2
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