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WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL

8000W Mobile 30' Light Tower w/ Diesel Generator - 220V 50Hz - 47 Gallon Tank- (4) 1000W MH Fixtures

Product ID: 147652

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-4-8KW-MHL-47GL-220V-2X1M-NPNTL Mobile Light Tower w/ Dual Auxillary Towers

Power: KUBOTA Water Cooled Diesel Engine
Generator: 8000 watts, 220V @ 50Hz, 1800rpm
Lamps: (4) 1000W Metal Halides
Total Lamp Watts: 4000W
Fuel: 47 Gallon (177 Liter) Fuel Tank
Auxiliary Power Supplies: (3) L6-20R Outlets
Boom Height: Up to 30 Feet
Efficiency: 110 Lumens per Watt
Total Lumens: 440,000
Coverage: 7 Acres
Noise Level: Db level 63 @ 23 ft
Mounting: Towable Trailer, 2000lbs Axle, NATO Pintle Hitch
Run Time: 95 Hours on Single Tank of Fuel

Auxillary Tower Specs

Lamp Type: Metal Halide
Lighting Configuration: Flood Pattern
Dimensions:Adjustable Tower 7 to 14 Feet Height
Total Watts: 1000 watts
Total Lumens: 110,000
Voltage: 120 VAC 50/60Hz / 220 Optional
Amps: 18
Wiring: (2) 300` 12/3 SOOW Extension Cords w/ L6-20 Connectors
Mounting: Steel Square Tube Quadpod, 7-14` Adjustable Height
Weight: Tower only 33 lbs, Total 150 Lbs

Features

External Grounding
Low Oil, High Engine Temp Auto Shut-Off
Three Point Outrigger System
Hour Meter - Alternator Warning
Individual Light Switch Circuit Breakers
Withstands 65 MPH Winds at Full Extension
NATO Pintle Hitch

Auxillary Tower Features

1100W, 110,000 Lumen Light Assembly
49,000 Square Foot Coverage
Adjustable Tower 7 - 14 Feet
Wheeled
Made in the USA

Special Orders - Special Requirements

Contact us for special requirements
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Made in Texas

The WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL from Larson Electronics is a mobile light tower package that is a towable lighting package powered by a water cooled diesel engine turning a single bearing 4 pole generator which produces 8,000 watts and 220V @ 50Hz. With four 1,000 watt metal halide lamps producing 440,000 lumens this unit will illuminate a 5-7 acre area continuously without refueling for 60 hours. In addition to the four main metal halide lamps, the WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL also includes two auxillary portable light towers to illuminate remote areas not covered by the main unit up to 325 feet away from the genset. The WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL features a 47 gallon (177 liters) fuel tank which allows for a 95 hour runtime from a full tank.

The WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL mobile light tower package is a self contained towable light tower package that produces enough light from the main unit to illuminate an area up to 7 acres in size. This main unit contains a water cooled diesel engine powering a 6,000 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. In addition to the main genset unit, the WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL also includes two auxillary portable light towers and a pair of 300` (91 meter) extension cords which allows operators to position the auxillary towers up to 325` away from the main unit and illuminate areas that are not reached by the genset. This unit can run uninterrupted for 60 hours straight without refueling and includes a telescoping light mast which can elevate the four metal halide lamps to a height of 30 feet. This mobile floodlight package is ideal for emergency services, large scale event illumination, construction, mining, industrial operations and anywhere an extended operation capable mobile lighting solution is needed.



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The WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL 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 47 gallon (177 liter) fuel tank allows the engine to operate for 95 hours continuously without refueling. The 8,000 watt generator is a single bearing design and produces 220 volt current at 50Hz. 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 main 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 7 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.
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 three L6-20 outlets for connecting the auxillary towers and other equipment that requires power at remote work sites where traditional power sources are unavailable or inconvenient.
Auxillary Towers: The WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL includes two of the Larson Electronics WAL-C-1XM portable metal halide light towers as auxillary lights to remotely illuminate areas away from the main genset and that the main genset cannot illuminate. The WAL-C-1XM is a quadpod mounted mini light tower and provides 49,000 square feet of work area coverage with 110,000 lumens of light output. This portable light tower has a removable dual light head assembly mounted on top of a four leg steel quadpod equipped with 10 inch wheels for easy positioning of the unit from one area of the workspace to another. The light assembly on this unit produces a wide flood pattern of light that is ideal for illuminating large workspaces and jobsites. This light is designed for heavy duty use in demanding conditions including emergency services, mining, construction, marine and industrial operations where durability and portability is important.



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These auxillary light towers are comprised of a removable light assembly fitted with one metal halide lamp mounted atop a four leg tripod fabricated from heavy duty steel. This adjustable and collapsible quadpod pod can be extended to fourteen feet and collapsed to seven feet and is locked into position with t-handle locking pins. Each unit is extended and lowered using an included hand crank cable winch equipped with a brake for fast and safe deployment. Included solid wheels allow the operator to tilt the unit back and simply roll the entire assembly to a new location when fully deployed. The light fixture assembly can be removed by releasing the hand knob and sliding the light and mounting bracket off of the center support while the legs can be collapsed, aiding in deployment, storage and transport. The lamps can be easily adjusted up, down or from side to side independently of each other and locked into position for maximum coverage of the work area.
Auxillary Tower Power: The auxillary towers included with the WCDE-4-8KW-MHL-47GL-220V-2X1M-NPNTL each come with a 300` (91 meter) long 12/3 SOOW extension cord which allows each auxillary tower to be utilized at distances of up to 325` away from the main genset unit. Each auxillary tower features a control box that houses the ballast for each light and that also features an on/off switch, line circuit protection and a power indicator. The auxillary towers included with this light tower package are connected to power from the genset via included L6-20 connectors.
Telescoping Boom: The telescoping boom consists of three sections extending up to 30 feet through the use of two manual self braking winches and allows for rotating the lights 360 degrees. One winch is mounted to the trailer tongue and acts to raise the tower into a vertical position while the other is mounted to the boom and is used to extend the tower to the desired height. The telescoping boom is constructed of galvanized steel to resist rusting and corrosion and is capable of withstanding 65 mph winds when extended to its full height and the stabilizing outriggers are deployed. The stabilizing outriggers are a three point design with one located under the trailer tongue and two on the rear sides of the unit. The two side outriggers are adjustable and include 3,000 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. Side doors provide access to the interior while latches provide secure closing while 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 63 Db noise level @ 23 ft. The entire unit can be loaded and unloaded onto trucks via forklift sleeves mounted to the outer section of the light mast. The entire unit is mounted onto a two wheel trailer with a 3,500 lbs leaf spring axle. A NATO pintle hitch and two standard safety chains allow for easy hookup and towing.

Engine

Kubota liquid cooled diesel engine
50 Hz engine/generator
Industrial engine exhaust system
Rubber engine mounts isolate engine and generator from trailer frame
Cooling system capable of operating at 120°F ambient temperature
Full flow spin on oil filter
Fuel filter w/ replaceable filter element
Dry type cartridge air filter
47 Gal. (177 liter) Polyethylene fuel tank with 3 1/2" fill port
95 hour runtime on full tank

Trailer

Mast Supports: 5" x 3/16" square tube
Tongue: 47" removable tongue w/ NATO pintle hitch
Chassis: Tubular 2.5" x 3/16" steel chassis
Leveling Jack: (3) 3000lb adjustable leveling jacks
Outriggers: Side outriggers provide 8` 3" span
Side Fenders: 14 gauge steel

Axle: 3500 lb leaf spring axle
Tires: P205/75L15
Safety chains w/ s-hooks
DOT approved tail, side, brake, and directional lights
Recessed rear and side lights
License plat holder w/ license plate lights
51" axle span

Mast

3 section tubular galvanized steel mast - 30` maximum extension
UHMW glide pads on all sides of mast tubes
Horizontal Automatic locking system for transport
1500 lb automatic self-braking winch
359° mast rotation w/ locking system
Retractable coil cord w/ galvanized cord protection housing

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)

Q. Should I order a 12V or 24V light?

A. Most customers need a 12V light. Standard vehicles and ATVs operate on 12V. Military vehicles operate on 24V. 24V does not mean it will be brighter. Operating a 24V light on a 12V power source will make halogen lights half as bright while LED lights will not operate. The motors will rotate very slowly and the light will appear broken.

Q. What is the difference between Radioray and Radioray GT models?

A. The Radioray GT series was introduced in 2019. The upgraded Radioray GT series features: updated exterior housing, higher torgue drivetrain, more precise pan/tilt control, upgraded stainless steel mounting bracket, enhanced resistance to vibration and impact, and new wiring harness.

Q. I own a halogen Radioray. Can I upgrade to a LED light or do I need to purchase a new light?

A. Yes. Halogen lights can be upgraded to LED by purchasing the GL-15444 LED module. This is compatible with GL-2XXX, GL-5XXX, GL-7XXX, and GL-9XXX models.

Q. What remote options are available for the Radioray?

A. We offer wireless handheld, wireless dash mount, and hard wired dash mount remotes for the GL-2XXX, GL-7XXX, and GL-9XXX series. The GL-5XXX series is only offered with a hard wired in-line remote.

Q. For wireless remotes, what is the operating distance and frequency?

A. The wireless handheld and wireless dash mount remotes operate up to 100' distance away from the light. The remote operates on 433 Mhz.

Q. Can I convert my hardwired light to a wireless remote?

A. If the light was originally manufactured as both wireless and hard-wired, you can purchase a replacement remote and program it to your light. If you purchased a military spec 24V light with no transceiver, the light cannot be converted to wireless.

Q. How long is the power cord?

A. For permament mount lights with wireless remotes, a 1-foot power cord is provided with tinned leads ready for installation. For portable models, a 15-foot power cord with a universal 12V cigarette plug is provided. We offer alternative cords for portable models that can be purchased separately, including ring terminals and battery clamps. For permament mount lights with hard wired remotes, we offer 20-foot and 32-foot remote cables.

Q. Can I control multiple lights from one remote?

A. Yes. For wireless remotes, both lights must be programmed to the same remote. See reprogramming instructions on GL-30100 for how to do this. For hard wired lights (excluding GL-5XXX series), a Y-splitter cable is needed. Part numbers for Y splitter varies by model. Contact sales to purchase a Y-splitter cable.

Q. Can I control one light from two remotes?

A. Yes. For wireless remotes, both remotes must be programmed to the same light. See reprogramming instructions on GL-30100 for how to do this. For hard wired lights (excluding GL-5XXX series), a X-splitter cable is needed. Part numbers for X splitter varies by product. Contact sales to purchase an X-splitter cable.

Q. Can I purchase a longer remote harness for my light with a hard wired remote?

A. Yes. We offer replacement cable and extension cable in 20-foot and 32-foot. An extension cable will plug in between your existing cable and the light. A replacement cable fully replaces your existing cable. Part numbers for these cables by product. Contact sales to purchase extension or replacement cables.

Q. What is the amp draw of my light?

A. Halogen lamps draw 5.5 amps at 12V DC. LED lamps draw 3.7 amps at 12V DC.

Q. Are replacement parts available for my existing light?

A. Yes. Replacement parts are available for most models. You can purchase them directly from our website, or contact sales.

Q. Can you repair my light for me?

A. Yes we can. Before sending in your light for repair, you must obtain a Return Authorization Number and include the RGA form in the packaging with your light. Service repair fees may apply.

Q. I purchased a military surplus 24V light, can you convert it to 12V?

A. The light can have the internal board converted to 12V. A cheaper and faster solution is to purchase our 12V to 24V transformer (part # DCP-12x24-10A-WP). This will be wired between the power source and light, and allow the 24V light to operate on a 12V vehicle.

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