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EXP-EXTRM-CKT-20F.HQ-TLR-V2

C1D1 Portable 24' Container Extraction Room - (2) EXP Lights, Exit Sign, (1) EXP Camera - Dual Speed EXP Fan, HVAC System - Trailer

Product ID: 278362

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.

EXP-EXTRM-CKT-20F.HQ-TLR-V2 20' Mobile Extraction Room Package

Container Specs

External Dimensions: 24'-6” Length x 9'-3” Width x 9'-9" Height
Internal Dimensions: 17’-10” Length x 7’-7” Width x 9’-1” Height
Weight: -
Door Type: Man Access Doors with Panic Bar and Combo Lock
Flooring: High Traffic Grade Linoleum
Container Wall Material: 14 Gauge Steel
Paint: White High Gloss Antimicrobial Interior Paint, White High Gloss Exterior Paint
Dry Chemical Fire Suppression System: Included/Installed (Activation/Permit Required to be Obtained by Local AHJ)
Eyewash Station: Included

Ratings
Class I, Division 1 Cannabis Extraction Pod

Trailer Specs

Materials: -
Dimensions: -
Hitch: Interchangeable 2" Ball Hitch and NATO Pintle Hitch
Suspension: 5,000 lbs
Leveling Jacks: 4-corner Leveling Jacks
Brakes: Electronic
Trailer Running Lights: Included - Stop/Tail/Turn
License Plate Holder/Lights: Included
Wheels: 15"

EPL-48-2L-LED Explosion Proof LED Fixture

Quantity: 2

Ratings
Class I, Division 1, Groups C and D

Listing: NRTL Listed for United States and Canada
Dimensions: 11.25"W x 52"L x 8.5"H
Weight: 60 lbs
Voltage: Universal 120-277VAC 50/60 Hz
Total Watts: 56 Watts (28 Watts Per Lamp)
Total Lumens: 7,000 (3,500 Per Lamp)
LED Lamp Life Expectancy: 50,000+ Hours
Luminous Efficacy: 125 Lumens per Watt
Color Temp: 5600K, 4500K or 3000K
Color Rendering Index: >80
Beam Angle: 150°
Power Efficiency: 90%
Power Factor: >0.95
Battery AC Input Voltage: 120/277V AC 60Hz
Battery AC Input Current: 90 mA
Battery AC Input Power Rating: 9.5W
Battery Output Current: 120V @ 165mA - 277V @ 72mA
Illumination Time: 90+ Minutes
Battery Type: High Temp, Maintenance Free, Nickel Cadmium
Battery Lifespan: 7 to 10 Years
Battery Charge Current: 250 mA
Battery Recharge Time: 24 Hours
Switch: On/Off
Ambient Operating Temp Range: 0°C to +50°C
Operating Temp Rating: T6 Rated
Minimum Operating Temp: 0°C
Maximum Case Temp: +50°C
Housing Material: Cast Aluminum End Caps & Battery Enclosure, Aluminum Reflectors - Copper Free
Lens Material: Hardened Borosilicate Glass Tubes
Gasket Material: Buna Rubber O-Rings
Mounting: Surface Standard
Wiring Hub: 1/2" NPT

Class I, Division 2, Group A,B,C,D
Class II, Division 1 & 2, Groups E,F,G
NRTL Certified to UL 595 Marine Type (Saltwater)
NRTL Certified to UL 844, UL 924
NRTL Certified to UL 1598 Marine Type
Certified Canadian Standards
Listed for Paint Spray Booths
California Title 24 Compliant
IP67 Rated - Waterproof
T6 Temperature Rating
NEMA 4X
LEL Listed LED Lamps
Approved for Confined Spares
Silicone Free
Factory Sealed Fixture
Failsafe Lighting
Emergency Battery Backup
90+ Minute Runtime
ABS Approved
Made in the USA
Switch Leg for Powering Light On/Off

Explosion Proof Power Outlet
Quantity: 1
Unit Dimensions: -
Receptacle Current Rating: 20 Amp
Voltage: 125V AC
Receptacle Type: 5-20R

Ratings
Class I Division 1

EXP-EMG-EXT-LE6-1L Explosion Proof Emergency Illuminated Exit Sign
Listing: NRTL Listed for United States and Canada
Lamp Type: LED
Dimensions: 25”H x 13”W x 10.5”D
Voltage: 120/277V AC
Watts: 1.1
Lighting Configuration: Back Illuminated Sign Panel
Battery Backup Runtime: 3 Hours
Battery Backup: Nickel Cadmium Battery Pack
Faceplate Color: Copper Free Aluminum Housing
Materials: Red or Green
Mounting: Ceiling Mount, Pendant Mount, Wall Mount
Wiring: 3/4" NPT Wiring Hub

Ratings
Class I, Divisions 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2
Class II, Divisions 1 & 2, Groups E, F, G
Class III Divisions 1 & 2
3 Hour Emergency Runtime
Self-Testing Unit

EXPCMR-CER-IP-POE-4MP-IR Network Explosion Proof Camera
Listing: NRTL Listed for United States, Canada, European Union, International
Dimensions: 8"L x 6"W x 13"H
Camera Weight: 6 lbs
Total Watts: 5W (Max)
Power Source: PoE (802.3af)
Image Sensor: 1/3" Progressive Scan CMOS sensor
Signal System: NTSC
Video Resolution: 4.0MP (2688*1520)
Frame Rate: Up to 20fps @ 2688*1520 resolution
Compression Type: H.264, H.264 OVC, MJPEG, H.265, H.265+
Bit Rate: 32Kbps - 16Mbps
Focal Length: 4mm
Max Field of View: 83°
Shutter Speed: 1/3s to 1/10,000s

Ratings
Class I, Divisions 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
Ex db IIC Gb
Ex tb IIC Gb Db IP66
NEMA 3, 4, 4X, 7 (B, C, D), 9 (E, F, G)
Main stream and two sub streams
Capable of programming unique settings per stream
ONVIF Profile S Certified
WDR (wide dynamic range) for auto adjusting

Min. Illumination: 0.01 lux (Color) / 0 lux (w/ External IR)
Infrared Light: NA - Requires Customer-provided External Infrared Light
Day/Night: True D/N w/Mechanical Cut Filter
Digital Noise Reduction: 3D DNR
Ethernet Interface: RJ45
Ethernet Speed: 10/100
Protocols: TCP/IP, HTTP, HTTPS, DHCP, UDP, RTP, RTSP and more
Remote Configuration: Yes
Ambient Temperature Range: -22°F to +140°F
Housing Materials: Copper-free Aluminum Alloy
Lens Material: 3/8" Thick Tempered Glass
Mounting: Adjustable rear-mounted handle/bracket
Wiring Hub: (2) 3/4" NPT

EXP-SNR-TG-EC-ITS-ALG-HC200 Hydrocarbon Gas Sensor
Gas Type: Hydrocarbon (Methane, Butane, Propane, Pentane)
Transmitter Type: Electrochemical Without Arms
Sensor Holder: Integral Holder
Output: Analog
PPM Detection Range: 0-200 ppm
Sensor Sensitivity: 120 Lm/W
Operational Temp Range: >-25º to +55ºC
Operational RH Range: 0-95% Non-condensing
Housing: Cast Aluminum
Output Range: Scalable 4-20 mA
Voltage: 120-240V AC Stepped down to 24V DC

Ratings
Class I, Divisions 1 & 2, Groups B, C, D
HC Sensor
LCD Graphic Display
Non-Intrusive Magnetic Operation
Internal Data Logger

Explosion Proof Fan and HVAC System
Fan Type: Dual Speed
Speed Setting 1: Continuous Operation @ 970 CFM Exhaust
Speed Setting 2: Activated at 20% LEL @ 4960 CFM Exhaust
Alarm Condition Activation: Gas Sensor
Propeller Material: Spark-Resistant Cast Aluminum
Shutter Type: High Velocity Gravity Activated Wall Shutters w/ Intake Filter
HVAC Type: Energy Star Rated Capacity Compressor
HVAC Size: 3T
HVAC Controls: Temperature, Humidity
HVAC Mount: Wall
HVAC Accessories: N/A (Can be Added at Additional Cost)

Ratings
NRTL Listed for United States

Control Panel and Status Beacon w/ Siren
Control Panel Quantity: 1
Visual Notification: Beacon
Audible Notification: Siren
Normal Operation: Green, Steady Burn
Fault Condition: Red, Strobe + Audible Siren
Additional External Alarm Triggers: Can be Added at Additional Cost
Dimensions: -
Weight: -

Ratings
NRTL Certified to UL508A

Special Orders - Special Requirements
Contact us for special requirements
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Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The EXP-EXTRM-CKT-20F.HQ-TLR-V2 Larson Electronics Portable Explosion Proof Cannabis Extraction Pod is mobile and can easily be deployed to conduct extraction operations. The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes one C1D1 emergency exit sign, two C1D1 emergency LED light fixtures, one C1D1 switch, one C1D1 125V rated explosion proof outlet, one dual-speed C1D1 exhaust fan, one explosion proof network camera and one C1D1 hydrocarbon sensor that can be used to operate the included exhaust fan. Mounted to a trailer, the mobile system also contains one 3-ton HVAC system, one control station with status beacon and audible siren, eyewash station and an installed dry chemical fire suppression system.
The EXP-EXTRM-CKT-20F.HQ-TLR-V2 is a complete mobile and portable lab for cannabis extraction operations. Secure to a heavy-duty trailer, this 20-foot high cube container measures 24`-6” length x 9`-3” width x 9`-9" height. The internal dimensions are 17’-10” length x 7’-7” width x 9’-1” height. This container is protected by 14 gauge steel walls. The exterior is finished with white high gloss paint, while the interior is finished in white high gloss antimicrobial paint. High traffic grade linoleum flooring ensures a stable surface suitable for rugged

operations. The extraction lab is equipped with man access doors, which has a panic bar and combo lock.
Our mobile extraction room solution comes with an eyewash station and an installed dry chemical fire suppression system. Activation and permit associated with the fire suppression system must be obtained through local AHJs. For more information on extraction rooms and explosion proof safety, please click here.
PLEASE NOTE: This extraction room explosion proof equipment package does NOT include: duct, roof curbs and roof seal (by owner supplied contractors), fire suppression permits, testing or monitoring (if required), city fees or permits of any kind, calibration and training of sensor, special listings or special engineering (if required), special inspections, taxes or special fees. Larson Electronics can provide some of the above components at an additional cost.

C1D1 Exit Sign Information: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes one EXP-EMG-EXT-LE6-1L C1D1 explosion proof exit sign. The EXP-EMG-EXT-LE6-1L Explosion Proof LED Exit Sign with emergency battery back up from Larson Electronics is Class I, Divisions 1 & 2, Groups A, B, C, D, Class I, Zones 1 & 2, Groups IIB+H2, IIA, Class II, Divisions 1 & 2, Groups E, F, G and Class III Divisions 1 & 2 rated for hazardous areas. Equipped with a 1.1 watt LED lamp, a 3 hour runtime and self diagnostic system, this failsafe exit sign helps show workers within hazardous environments where the exit is during power failures. This single sided exit sign is an ideal emergency exit marking solution for hazardous locations where failsafe reliability is a must.
The EXP-EMG-EXT-LE6-1L is an effective option for operators who wish to ensure their hazardous workspaces employ the most up to date and reliable means of marking emergency exit-ways available. Under normal conditions this emergency exit lamp uses normal external power to illuminate its 1 watt LED array. In the case of power outages or in any situation where power is interrupted, this unit automatically switches to a battery backup which will power the unit for three hours or until power is restored. This fixture has three mounting options and is multi-voltage capable.
Exit Sign Features: The EXP-EMG-EXT-LE6-1L features a backlit LED array that each contain eight LEDs, drawing a total of 1.1 watts. This explosion proof emergency LED fixture features brown-out, short circuit and voltage surge protection and has a low voltage disconnect which prevents damage to the battery caused by a deep discharge. This self-testing LED fixture will run for a minimum of 3 hours after a power failure thanks to the maintenance-free 3.6 volt NiCad battery. After emergency use, the battery takes 24 hours to completely recharge.



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This emergency exit marking fixture is explosion proof and carries an integral battery backup power supply. When external power is cut due to outages or accidents this lamp automatically switches to its battery backup which will power the lamp for three hours, longer than the requirements specified in the NFPA 101. The EXP-EMG-EXT-LE6-1L sign panel is back illuminated by LEDs and as a result draws only 1.1 watt of power and has an extreme LED luminary lifespan rated at 15 years. This fixture is approved for outdoor use and is resistant to saltwater making it suitable for use in marine environments.
Exit Sign Emergency Operation: The EXP-EMG-EXT-LE6-1L features a backup

battery that will run the fixture for at least 90 minutes following a power outage or any other loss of power. The included emergency backup battery is a 3.6 volt NiCad rechargeable unit. These batteries are maintenance-free and have a life expectancy of 15 years while being able to operate in a wide variety of conditions including in temperatures ranging from 0°C to +40°C. This unit also features a low voltage disconnect. This means that if the fixture detects that the battery`s terminal voltage has fallen below a certain level, the low voltage circuit will disconnect the emergency lighting load until normal power is restored. This prevents the battery from experiencing a deep discharge and becoming damaged.
Exit Sign Wiring: The EXP-EMG-EXT-LE6-1L explosion proof emergency self-testing LED fixture is **NOT** a factory sealed fixture. Operators will bring their own wiring to a junction box and complete their connects. The operator will also provide their own seal off for this fixture. The EXP-EMG-EXT-LE6-1L operates on 120/277V AC at 60Hz.
Exit Sign Mounting: The exit sign is designed to be surface mounted to flat surfaces such as walls. The unions connecting the upper lamps to the lower indicator light enclosure allow for both horizontal and vertical adjustment. This gives operators the ability to adjust the light to their specific mounting location for ideal light coverage during a power failure or power outage.

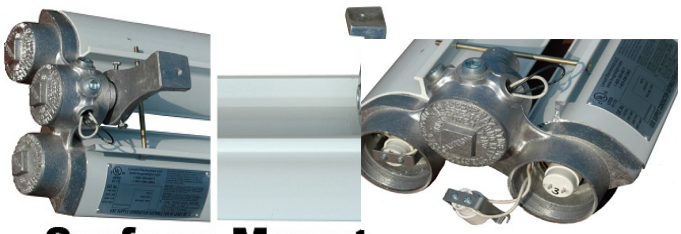
C1D1 LED Light Fixture Features: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes two EPL-EMG-48-2L-LED C1D1 surface mount LED light fixtures. The Larson Electronics EPL-EMG-48-2L-LED Explosion Proof LED Light Fixture is NRTL United States and Canada approved Class I Divisions 1 & 2 and Class II Divisions 1 and 2 for areas where flammable chemical/petrochemical vapors exist or have the potential to exist. This explosion proof LED light has a T6 temperature rating and carries a paint spray booth light certification, making it ideal for applications such as paint booths, oil rigs, offshore applications, petrochemical, manufacturing, chemical storage, water treatment centers, and food processing plants.
This four foot, two lamp emergency LED fixture is ideal for operators seeking a top quality explosion proof light that will reduce operating costs, improve lighting quality and reduce downtime incurred from frequent servicing intervals. The EPL-EMG-48-2L-LED is equipped with Larson Electronics' specially designed LED T-series bulbs which produce 7,000 lumens, resulting in 30% more foot candles of illumination at 8 feet as compared to standard T8 lamps when measured with an Extech light meter. Our LED-T series bulbs are visibly brighter than standard T8`s and have consistently surprised many of our customers with their unexpectedly high light output levels.
We now offer our second generation LED tube lamps with this fixture which have increased this hazardous location light's performance. This two lamp explosion proof LED linear fixture is lighter in weight, has a slimmer profile, and produces more light than traditional explosion proof fluorescent fixtures. The four foot long LED tube design bulbs included with this unit are rated at 50,000 hours of service life, which is over twice as long as standard T8 bulbs.
Emergency Mode and Light Switch: This emergency backup LED light works, mounts and is wired like our EPL-48-2L-LED explosion proof LED light fixtures. The main difference is that we add a battery backup unit that adds emergency light functionality to the fixture. With an integrated emergency ballast, this explosion proof LED light will continue to operate one LED lamp for 90 minutes at 3,500 lumens after the main electrical power to the light is severed. Once standard electrical power is restored, the emergency battery pack will be recharged. The battery backup unit includes a switched leg for turning the light fixture on/off without kicking the unit into emergency mode. Operators may access an explosion proof on/off switch for controlling the lights.
This fixture carries a T6 temperature rating and is approved for Class I Division 1, Groups C and D, Class I, Division 2, Group A, B, C and D, and Class II, Division 1 and 2, Groups E, F and G environments where flammable or combustible gases, vapors, dusts, fibers, and flying exist or stand the potential to exist. This LED linear fixture is approved for use in confined spaces. Click here to read the NEC description for explosion proof and hazardous locations.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.
LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.
The 28 watt LED lamps produce 30% more illumination than standard T8 bulbs while offering lower amp draw and increased reliability. Each lamp produces 3,500 lumens at 125 lumens per watt, for a combined 7,000 total lumen light output. An EPL-EMG-48-2L-T8 explosion proof fluorescent light, with a combined total of 64 watts, draws 0.54 amps at 120 volts AC. This LED version of the same light, with a total of 56 watts, draws only 0.47 amps at 120 volts AC. The EPL-EMG-48-2L-LED is universal voltage, not multi-tap, and operates on any voltage from 120V to 277V AC 50/60hz without any modifications. We also make a 12/24V AC/DC version for low voltage applications for AC or DC power.

Energy Consumption Comparison

	T5HO	T8	LED
Wattage	108 watts	64 watts	56 watts
Amp Draw @ 120V AC	0.90 amps	0.54 amps	0.47 amps
Amp Draw @ 220V AC	0.49 amps	0.29 amps	0.25 amps
Amp Draw @ 240V AC	0.45 amps	0.27 amps	0.23 amps
Amp Draw @ 277V AC	0.39 amps	0.24 amps	0.20 amps
Amp Draw @ 12V DC	9 amps	5.34 amps	4.67 amps
Amp Draw @ 24V DC	4.5 amps	2.67 amps	2.34 amps
Lamp Life Expectancy	20,000 hours	24,000 hours	50,000 hours
Operation cost per year (12hs/day @ 12c/kWh)	$56.77	$33.64	$29.43

Our EPL-EMG-48-2L-LED LED light fixture is NRTL Listed for United States and Canada approved for use in paint spray booths. Please note, according to the NEC, using threaded rigid pipe does not require additional seal offs with this fixture. An EYM and seal off is necessary for flex conduit or other non-rigid pipe implementations.



Surface Mount

Click Photo to Enlarge



Pendant Mount

Click Photo to Enlarge

Mounting Options: Unless otherwise specified, our standard, most popular configuration is the bracket end mounting shown enlarged below. We also offer a

pendant mount for those needing to suspend the fixture away from the ceiling surface (i.e. suspend from pipe or conduit). Additional mounting configurations can be customized to meet various operating requirements. Please contact us for special mounting configurations.

Adjustable Surface Mount Brackets: Each bracket is cinched to the bracket mounting peg on each side of the light. The angle of the bracket is set by tightening two cap screws on either side of the bracket. The cap screws act as a set screw. The bracket itself is mounted via a single bolt hole at the top the bracket. There are two brackets, one on each end of the light. Once the brackets are mounted to a surface (ceiling, floor or wall), the light fixture can be removed from the brackets by loosening the cap screws that hold the bracket to the mounting peg.

Suspension Mounting: Pendant mount fixtures hang from the ceiling and are suspended by rigid pipe. Each fixture features a 1/2" NPT junction box on one end, and a 1/2" NPT adjustable L-bracket on the other end of the fixture. Operators bring rigid pipe down to the threaded mounting hubs. Wiring is fed down through the rigid pipe to the junction box and tied in to the fixture's lead wires, completing the electrical connection. The adjustable L-shape mounting bracket provides support for the opposite end of the fixture.

C1D1 Explosion Proof Outlet Features: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes one explosion proof outlet for power connections. This 20 amp rated power receptacle is ideal for operators seeking a high quality, wet area rated power receptacle suitable for use in industrial and manufacturing applications. The 5-20R receptacle is constructed of copper-free aluminum and the housing is malleable iron. The unit is factory sealed and any arcing is safely contained with the interior of the receptacle. The receptacle contacts are deep recessed to avoid accidental contact and will not be energized by non explosion proof plugs to preserve explosion proof protection in hazardous environments. Ordinary location plugs will **NOT** activate this explosion proof receptacle.

C1D1 Exhaust Fan: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes a dual-speed explosion proof fan to ensure active air circulation inside the mobile extraction room. Equipped with two speed settings, the unit contains high velocity gravity activated wall shutters with intake filter. The first speed setting is designed for continuous operation at 970 CFM exhaust. The second speed setting is activated upon sensing 20% LEL and will increase circulation to 4,960 CFM exhaust. The second speed setting is triggered by alarm conditions (activated by a gas sensor), which quickly removes flammable concentrations to prevent explosions. Our solution is currently the highest CFM container kit on the market.

HVAC System: This cannabis extraction lab comes with a 3-ton HVAC system for cooling during operation. The HVAC unit features an Energy Star rated capacity compressor for increased efficiency, quieter operation and improved reliability. The wall-mounted cooling unit features thermostatic and humidity control with overall reduction in compressor cycling for greater system lifespan. We can add factory accessories to the HVAC system to meet certain project or operating requirements at an additional cost.

C1D1 Explosion Proof Network Camera Features: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes one EXPCMR-CER-IP-POE-4MP-IR explosion proof network camera. This explosion proof, dust/ignition proof, weather proof and tamper resistant camera provides the operator with a live feed from inside the extraction room.

The EXPCMR-IP-POE-4MP-IR Network Explosion Proof Camera features a built-in 1/3" progressive-scan CMOS image sensor that delivers up to 4.0MP resolution at 20 fps. The wide angle fixed lens with 83° field of view is designed to cover large areas, including mobile labs and temporary extraction rooms. This explosion proof camera provides a crisp and clear image for everything within the 83° focal area, allowing businesses and persons with access (local/state officials, operation managers, inspectors, etc.) to view the workplace in real-time. Total distance is dependent on mounting height and angle.

The explosion proof unit does not come with built-in infrared lights. To use infrared-light related features, such as capturing images in dark and low-light conditions, an external infrared light must be used with the explosion proof device. For 12-24V DC applications, we recommend the Larson Electronics 12-watt explosion surface-mount infrared LED light (EXHL-TRN-LE3-IR-1224). As an alternative, we also offer the EXHL-TRN-LE3-IR-1227 for 120-240V AC applications.
This remote inspection camera utilizes 120dB true Wide Dynamic Range, 3D Digital Noise Reduction and a true day/night IR-Cut Filter Removal to produce clear images in variable and low light conditions. The camera automatically switches from full color to IR mode when visible light falls below a certain level.
Wiring: Link-up with the camera is achieved via a customer provided RJ45 Ethernet cable which is ran back to the customer provided DVR system mounted outside the hazardous location. Camera power is delivered via the same Ethernet cable using Power over Ethernet (PoE) technology. This not only increases flexibility in deployment, but also provides time and cost savings as well.
Our explosion proof cameras with Power over Ethernet (PoE) features enable data transfers and power to be passed through a single Ethernet cable that is usually a Cat 3/Cat 5 cable or better. There are several types of PoE, which come with their own respective standard and maximum power to port capabilities. The IEEE 802.3af PoE standard, with a voltage range of 44.0 - 57.0V, offers 15.4W of DC power for each port. The IEEE 802.3at PoE standard, with a voltage range of 50.0 – 57.0V, provides up to 30W of DC power per port, which is ideal for surveillance cameras, antennas and network access points. The IEEE 802.3bt PoE standard, with a voltage range of 50.0 – 57.0V, provides 60W of DC power for each port. In order to utilize PoE properly, the components, such as the receiving unit and sending device, must be PoE compliant.
Recording: To record the stream from this camera, a NVR (network video recorder) is required. Larson Electronics provides a line of explosion proof, hazardous location and non-classified NVRs for BHO/THC/CBD extraction facilities, which work in conjunction with this explosion proof camera. This camera is live-view capable without any NVR system via remote access to the camera. Three streams are available, one main stream for recording and two sub streams for live viewing or additional resources. Each stream can be configured to different resolutions and frame rates.
Mounting: The EXPCMR-CER-IP-POE-4MP-IR Network Explosion Proof Camera features an ATEX/IECEx certified copper-free aluminum alloy body and weighs a total of 6 pounds. The camera includes an adjustable rear-mounted polished stainless steel mounting bracket/handle. Additional accessory pole mounts and magnetic mounts are available separately.

C1D1 Hydrocarbon Sensor Features: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 includes one EXP-SNR-TG-EC-ITS-ALG-HC200 C1D1 alcohol sensor. This sensor is intended to be paired with one of the included ventilation fans to turn the fan on when a high concentration of butane or propane is detected within the extraction room. This hydrocarbon sensor can be set to either detect butane or propane. It CANNOT detect both at once. The operator selects their choice on the unit itself.
The EXP-SNR-TG-EC-ITS-ALG-HC200 Explosion Proof Alcohol Sensor from Larson Electronics is a toxic gas sensor that is configured to detect hydrocarbon vapors of Methane, Butane, Propane, or Pentane within a 0-200ppm (parts per million) concentration, and includes an electrochemical transmitter, an integral sensor holder and non-digital output. An LCD graphics display shows gas concentrations in large, easy to read numbers and also provides operators with alarm indication and menus to set up operating parameters. A backlight is available for use when 3-wire mode is used. This sensor also includes an internal data logger which stores measured gas values at intervals chosen by the user, which can be pulled up on the LCD screen at any point, or downloaded using an interface. This hydrocarbon sensor has non-intrusive operation, allowing operators to calibrate, view data, set up alarms and complete other tasks with a magnetic tool, eliminating the need to open the sensor`s enclosure. All program settings are password protected. Also included with this sensor is a scalable 4-20 mA programmable output range, three internal

alarm relays transmitter, and analog output set to user defined values for loop testing without needing to apply gas to the sensor.
The EXP-SNR-TG-EC-ITS-ALG-HC200 is fitted with a hydrocarbon gas sensor, which plugs directly to the transmitter. This gas sensor is used to detect a wide variety of hydrocarbon gases, which can be calibrated by the user based on application. This gas detector contains a sensor, amplifier and memory module in one unit, allowing it to be calibrated independently and plugged into any detector for immediate use with no adjustments needed.



Click Photo to Enlarge



Click Photo to Enlarge

Control Panel and Status Beacon Features: The EXP-EXTRM-CKT-20F.HQ-TLR-V2 contains an accessible control panel that is NRTL certified to UL508A and a status beacon with an audible siren. The status beacon emits a green, steady burn light under normal operating conditions, when the container is in use. Upon sensing a fault condition, the status beacon will illuminate a red, strobing light and will sound an audible siren to notify any visually impaired individuals present in the area. We can add external alarm triggers for notifying monitoring stations at an additional cost.
Trailer: The entire extraction container is mounted to a trailer for seamless mobility and transportation. This trailer features interchangeable 2" ball hitch and NATO pintle hitch. Equipped with 5,000 lbs suspension, operators may access 4-corner leveling jacks which can be deployed for added stability. The trailer has 15" wheels, electronic brakes and trailer running lights (stop/tail/turn). A license plate holder with license plate lights is included with the system.
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.

Frequently Asked Questions (FAQ)

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- **Dimensional Drawing 2D**
- **Wiring Diagram**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**