

Explosion Proof Drone - 3 Flight Modes - 3.2m Range - C1D1, C2D1 - NEC/CEC, ATEX, IECEx

Part #: EXDR-LE10-CMR-R1



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Communication today and tomorrow

The EXDR-LE10-CMR-R1 Explosion Proof Drone offers advanced monitoring, surveying and payload deployment in hazardous locations and industrial facilities. This UAV features a maximum distance of 3.2 miles and 22 minutes of flight time. Powered by six rechargeable LiPo batteries, pilots can choose from three flight modes and safety modes during operation. The remote controller supports dual users (Master-and-Slave Control) with a maximum transmission distance of 3.1 miles (FCC Compliant).

The EXDR-LE10-CMR-R1 is a powerful explosion proof UAV for industrial applications. Featuring eight rotors, the unit is capable of 22 minutes of flight time. It can reach maximum speeds of 18 m/s (no wind) and a maximum distance of 3.2 miles. The drone is powered by six, rechargeable intelligent batteries at 4,500 mAh capacities. Three GPS sensors are available for optimized tracking. Clips located at the base of the rotors stabilize the rods during operation. A vibration absorber located at the bottom of the UAV prevents unnecessary shaking and smooth recording. Landing gears can be retracted and deployed, as needed.

This explosion proof drone is suitable for NEC/CEC markets, as well as ATEX/IECEx. Listed for the United States, Canada and Europe, the unit comes with the following explosion proof ratings: Class I, Divisions 1 & 2 Groups A, B, C, D and Class II, Divisions 1 & 2 Groups E, F, G.

Flight Modes: The explosion proof UAV features the following flight modes: GPS Mode, Height Mode and Manual Mode. In GPS Mode, pilots can set a drone to fly autonomously to a pre-programmed destination, using satellites for guidance. In Height Mode, the operator locks the altitude setting of the unit, while other controls and movement are manually controlled. In Manual Mode, the pilot has full control of the UAV. For enhanced reliability, operators may also instruct the drone to return to the launching location, using "Come Home" commands.

Remote Controller: The EXDR-LE10-CMR-R1 comes with a cutting-edge remote controller for sending and commands to the unit. Operating at 2.400 GHz to 2.483 GHz or 5.725 GHz to 5.825 GHz frequencies, the controller is capable of transmission up to 3.1 miles (FCC Compliant). The platform supports dual-user configurations via Master-and-Slave control. Video output ports include HDMI, SDI and USB. A built-in 2S LiPo battery rated at 6,000 mAh powers the device.

Configurations: This explosion proof drone is capable of taking on a wide range of configurations, depending on the needs of the project. An infrared camera can be mounted at the bottom of the UAV to monitor thermal gas leaks on buildings and large structures. For basic recording, a compact high definition camera may also be mounted on the unit. Operators could install a transmitter, allowing real-time feedback of footage. When used for deliveries, the explosion proof drone can be equipped with a heavy-duty hook, which can hold bags, sacks, boxes and other small payloads. It would also be possible to mount measuring devices that monitor external conditions of the hazardous location.

Applications: Oil refineries, petrochemical plants, offshore rigs, marinas, docks, warehouses, ammunition facilities, tank farms, pipeline pumping stations, marine loading, fuel transfer terminals, military, law enforcement, surveillance, inspections, testing, package deployment, marine deliveries, security, monitoring, surveying, terrain analysis, photostitching, mapping and more.

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Specifications / Additional Information

EXDR-LE10-CMR-R1 Explosion Proof UAV

Unit Type: Explosion Proof Drone

Dimensions: 65.6" x 59.7" x 29.8" - Fully Deployed Aircraft

Weight: 21 lbs (w/ Batteries), 33.3 lbs (Takeoff Weight)

Charger Voltage: 26.3

Charger Power Rating: 100W

Battery Type: (6) Rechargeable LiPo

Battery Capacity: 4,500 mAh

Battery Voltage: 22.2

Drone Specs:

Number of Rotors: 8

Hovering Accuracy: Vertical- ± 0.5 m, Horizontal- ± 1.5 m (P-Mode, with GPS)

Max Angular Velocity: Pitch- 300°/s, Yaw- 150°/s

Max Pitch Angle: 25°

Max Flight Time: 22 Mins

Max Distance: 3.2 Miles

Max Speed: 18 m/s (No Wind)

Max Speed of Ascent: 5 m/s

Max Speed of Descent: 3 m/s

Operating Temp: -10° to 40° C

Flight Modes: GPS Mode, Height Mode, Manual Mode

Safety Modes: Direct Landing, Come Home Straight, Come Home High

Remote Controller Specs:

Operating Frequency: 2.400 GHz to 2.483 GHz, 5.725 GHz to 5.825 GHz

Max Transmission Distance: 3.1 Miles

Video Output Ports: HDMI, SDI, USB

Dual Users Capability: Master-and-Slave Control

Output Power: 9W

Operating Temperature: -10° to 40° C

Battery Type: 2S LiPo

Battery Capacity: 6,000 mAh

Ratings/Approvals

Listed for United States, Canada, Europe

Class I, Div 1 & 2 Groups A, B, C, D

Class II, Div 1 & 2 Groups E, F, G

II2G Ex eb Ga IIB+H2 T5

II2D Ex tb Da IIC T5

Vibration Absorber

Transmit Real-time Footage

Compatible w/ IR Cameras

Autonomous Flight Modes

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