

Bright

Stable

Integrated

Applicable Models: third-party drone

Combining 128W professional-grade illumination with precision gimbal stabilization to deliver exceptional lighting coverage and image stability for drone operations.

Applications



Public Safety Operations

Enhances visibility for police and search and rescue drones during nighttime missions and emergency response.



Industrial Inspections

Provides critical visual identification for power line, pipeline, and infrastructure inspection drones.



Airspace Safety Management

Serves as a clear warning beacon for drones operating in complex environments like construction sites and near airports.



Aerial Filming & Events

Adds safety lighting for nighttime cinematography and creates visual effects for drone light shows.

Specification

- Input Voltage: 22.2V-25.2V (Nominal 65)
- Operating Voltage: 24V
- Maximum Current: 6000mA @ 24V
- Power Range: 1W (LED off)
- Control Methods: PWM / S.BUS / TTL
- **Gimbal Angle Range**
- Pitch: 30°-100° (structural)
- 25°-90° (software)
- Roll: $\pm 70^\circ$
- Yaw: $\pm 120^\circ$ (structural)
- $\pm 115^\circ$ (software)
- **Performance Parameters**
- Angular Jitter: $\pm 0.02^\circ$
- Dimensions: 141.1×134×194.9mm (with quick-release)
- Weight: 925±10g (with quick-release)
- LED Power Adjustable: 0-128W
- Luminous Flux: 13,500 lm (128W)
- Luminous Efficacy: 113 lm/W (128W)
- Detection Area: 1,230 m² (128W/150m)
- Center Illuminance: 15 Lux (128W/150m)

Powerful

Precise

Versatile

C.L4PRO High-Performance Drone Gimbal Searchlight



This C.L4PRO is a high-performance drone gimbal searchlight operating at 24V input, supporting multiple control protocols including PWM, S.BUS, and TTL. It features highly flexible adjustment capabilities in pitch, roll, and yaw angles. With a maximum LED power of 128W and a brightness of up to 13,500 lumens, it provides wide-range spotlight illumination suitable for various scenarios such as emergency response, night search and reconnaissance, and patrol lighting. The quick-release design enables rapid installation and replacement, enhancing mission efficiency.

Key Features:

- 128W high-power LED with 13,500 lm output
- Multi-protocol control (PWM/S.BUS/TTL)
- 3-axis gimbal with wide angle adjustment
- Quick-release mounting system
- 24V operating voltage
- Precision stabilization ($\pm 0.02^\circ$ jitter)

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