

Lumenier
LIGHTHAWK SERIES

DEFENDER 5



POWERFUL • RUGGED • PRECISE



DEFENDER 5

Dominate Confined Spaces with Precision and Power

Our high-performance confined space FPV is engineered for unparalleled control and maneuverability in the most restrictive and demanding environments. Its compact, tactical design features ensure lightning-fast agility and pinpoint accuracy for complex operations in urban environments and interior spaces.

Key Features:

- **Built for Endurance:** Achieve up to 25 minutes of flight time with the ability to carry payloads up to 2.2 lbs (1 kg). Ideal for critical operations such as urban kinetic delivery, surveillance, and reconnaissance.
- **Unyielding Resilience:** Powered by a 6S LiHV 6500mAh battery, it provides the stamina necessary for extended missions. The modular design enhances operational readiness with removable prop guards, quick-connect motor wiring, and a rugged avionics enclosure for effortless maintenance and rapid repair.
- **Operational Versatility:** Equipped with powerful Visible and IR LEDs, optional action camera mounts, Picatinny rails, and optional GPS navigation, this drone guarantees superior performance and mission flexibility.



FEATURES

1. Picatinny Rail.

Enhanced mounting options for kinetics or accessories, ensuring you're always mission-ready.

2. High-Powered Visible & IR LEDs with Strobe Functions.

Maximize visibility and signaling capabilities/IFF in all conditions, day or night.

3. Accessible USB-C Port.

Streamlined data transfer and configuration for quick, in-the-field adjustments.

4. Quick-Connect Motor Wires.

Rapidly change motors in the field. No soldering required.

5. Ruggedized Avionics Enclosure.

Protective enclosure shields electronics from environmental factors.

6. Electronics Compartment Access Panels.

Rapid access for repairs and upgrades, ensuring minimal downtime during critical operations.

7. Modular Radio Receiver with Quick-Access Bind Button.

Seamless, rapid connectivity for flawless control in high-pressure situations.

8. Optional Action Camera Mount.

Capture high-definition, tactical footage for analysis or site exploitation, without compromising performance.

9. Optional GPS and/or Remote ID Mount.

Enhance navigational precision, giving an edge in operational execution.

10. Removable & Replaceable Prop Guards.

Quick maintenance, enhanced safety, and protection in hostile environments.

11. Patrios LED Compatibility.

Flexible, customizable mounting patterns to suit diverse mission requirements.

12. Power Switch.

Leave your battery connected with zero RF/VTX emission. Press the button and fly.

13. Optional FPV Digital Video Transmission.

Real-time, high-definition video feed to sharpen situational awareness and decision-making on the ground.



SP E C I F I C A T I O N S

Flight Time:

No Payload: 25 mins. (Hover)
2.2 lbs (1 kg) Payload: 11 mins. (Hover)

Vehicle Weight: 1.41 lbs (638 g)

Recommended Max. Payload: 2.2 lbs (1 kg)

Max. Payload: 5.73 lbs (2.6 kg)

Battery:

Type: 6S LiHV (Lithium High Voltage)
Capacity: 6500mAh

Dimensions:

Width: 12 in (305 mm)

Length: 11.2 in (285 mm)

Height: 2.6 in (65 mm)

Lumenier AVIARA AIO:

F7 FC + 70A AM32 ESC - NDAА

Motors: 2507

Propellers: 5146 (5.1 in)

RX: NDAА Nano Radio Receiver

VTX: NDAА Video Transmitter

Camera: Low-Light FPV Camera

GPS (opt.): Lumenier SAM-M10Q

RID (opt.): Lumenier RID



PICATINNY RAIL CONFIGURATIONS

Underslung Picatinny Mounting
Battery top mounted



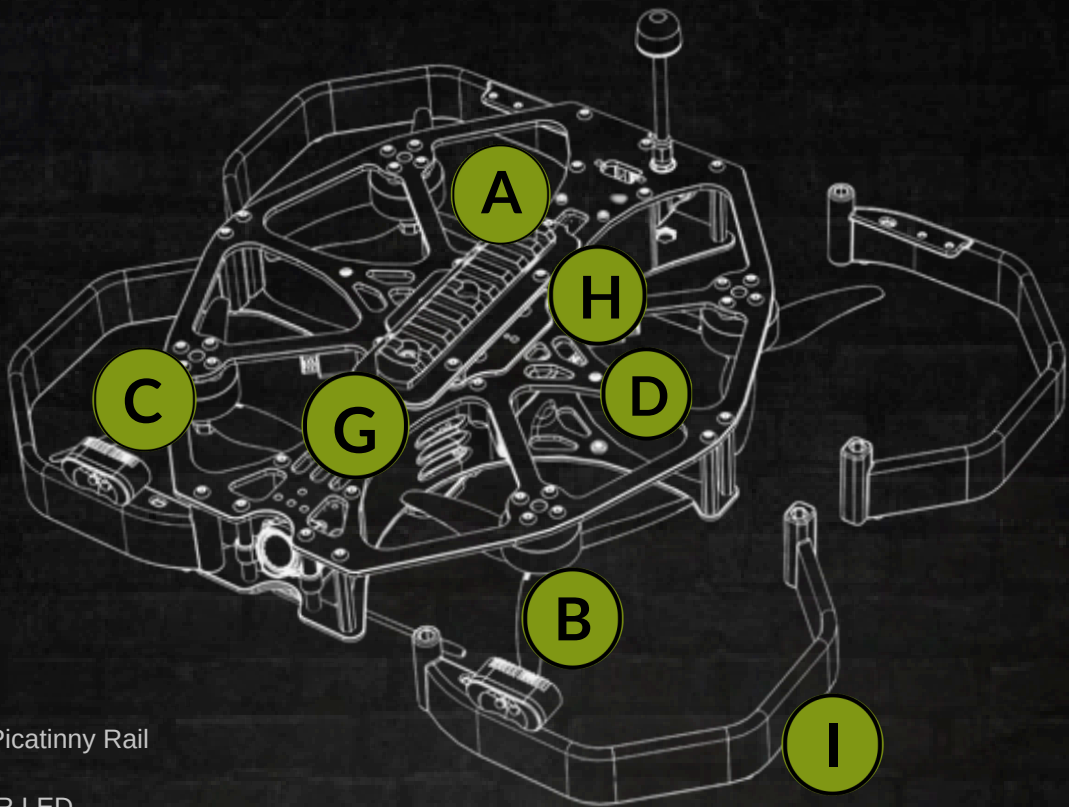
Upper Picatinny Mounting
Battery belly mounted



REAR POWER SWITCH

Quick Access USB-C Configuration Port





A Picatinny Rail

B IR LED

C Visible LED

D GPS/Remote ID (optional)

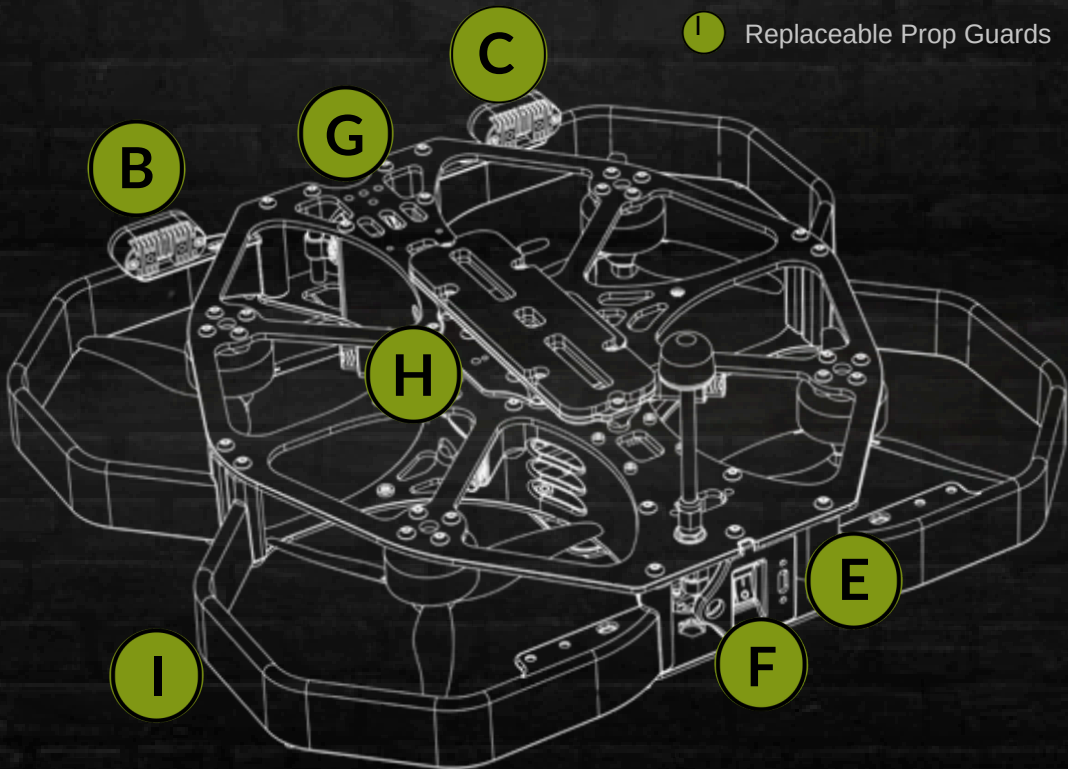
E USB-C Port

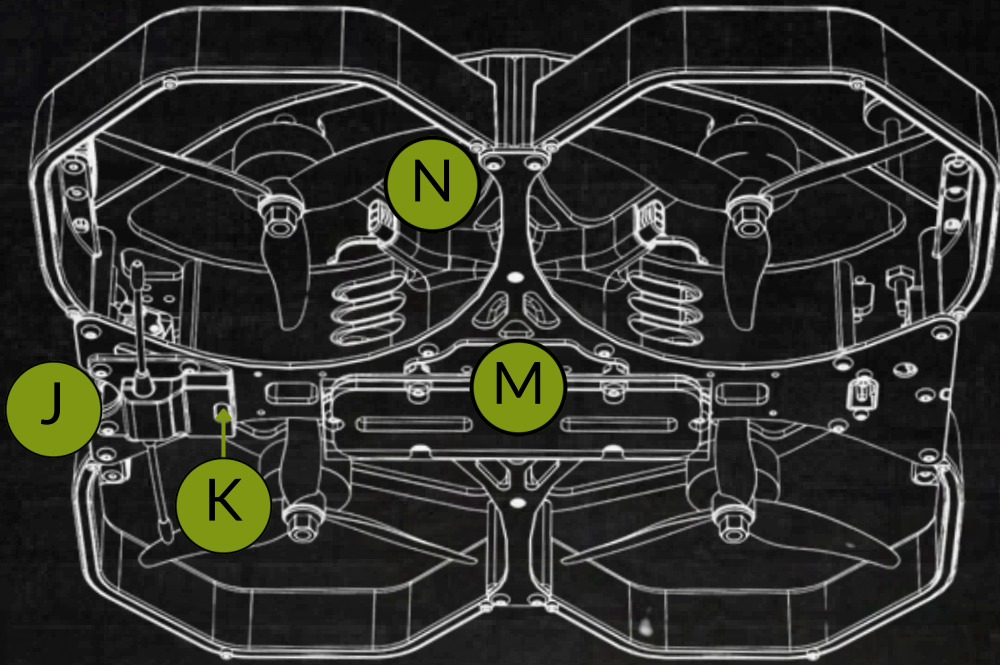
F Power Switch

G Action Camera mount (optional)

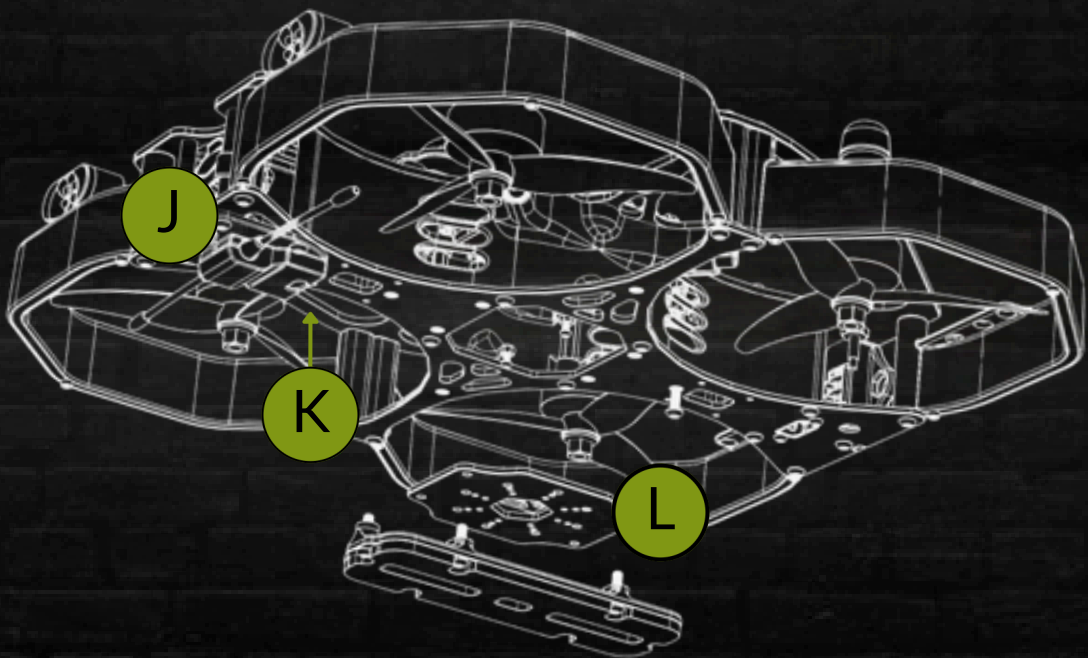
H Access Plate (top)

I Replaceable Prop Guards



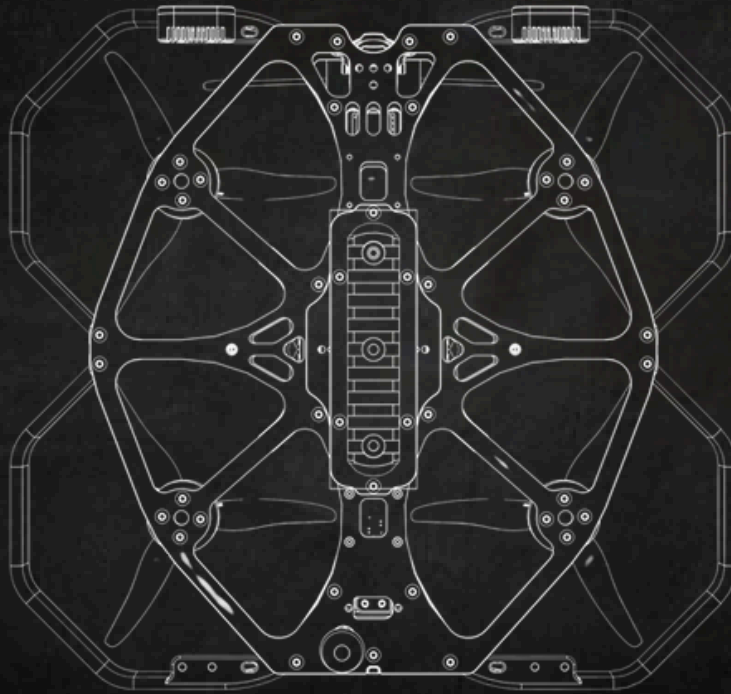


- J** Modular Radio Receiver
- K** Easy-access Bind Button
- L** Access Plate (bottom)
- M** Battery plate
- N** Quick-connect Motor Wires

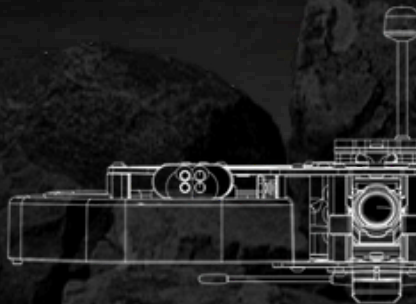


DIMENSIONS

12 in (305mm)



11.2 in
(285mm)



2.6 in
(65mm)





DEFENDER 5

Industry-leading tactical 5" FPV engineered for indoor/outdoor delivery of kinetic and non kinetic payloads, reconnaissance, and surveillance.

- ✓ **Flight Time:**
 - No Payload: 25 mins.
 - 2.2 lbs (1 kg) Payload: 11 mins.
- ✓ **Penetration Distance:** Up to 5 Miles (8 km)
- ✓ **Cruising Speed:** 37 mph (60 km/h)
- ✓ **Top Speed:** 62 mph (100 km/h)
- ✓ **Payload:** 2.2 lbs (1 kg)



CONTACT US

info@falconuav.com.au



Falconuav.com.au

