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Tel 610-521-6115 ext. 202

# DP-12 Rhino

## 150 Lbs Payload Tactical UAV VTOL: No runway required

### Specifications



Fits in trailer, pickup, humvee, van



150 lbs payload; fast, agile under load



DP-12 Rhino, 6.7 ft long, multi-mission UAV

*DPI is the industry leader in rotary wing unmanned aerial vehicles (UAV) in the U.S. Our UAV have successfully flown thousands of hours.*

The DPI DP-12 Rhino is a small, powerful, unmanned aerial vehicle (UAV) that can carry up to 150 lbs. It is designed to operate in complex terrain, self-deploy, and self-recover (no runway or recovery equipment required). Unlike traditional helicopters with a tail rotor, the tandem design with high rotor blades allows the Rhino to land in unprepared areas: uneven ground, icy roads, small clearings, fallow fields, roof tops, and its own transport (such as the bed of a pickup truck). The Rhino performs efficient path planning with cutting-edge perception, advanced obstacle avoidance, and intelligent landing-site selection. Payloads attach to external hard points at the midsection, underbelly, and other areas. EO/IR gimbals mount on a modular avionics rack. Use of a relative positioning system also allows the tandem UAV to self-launch and self-recover on heaving, rolling, pitching ships with 8-inch CEP accuracy.\*

### DP-12 Rhino

Payload: 150 lbs

Range: 300 nmi

Speed: 112 KTAS

Cruise speed: 54 KTAS

Rapid climb under load:  
500 ft/minute

Stall speed: None

Stable hover: Yes

Crosswinds: 30 kts

15,000 ft MSL

10,000 HOGE @ GW

### Military-Proven

**Now available  
for industry**

### Features

- Expeditionary
- Wide CG envelope
- Efficient tandem design
- STANAG 4586 compliant

### Endurance with typical payloads

- 1 hour, 150 lbs payload
- 4 hours, 32 lbs payload

### Mission capabilities

- Precision Photography
- Aerial resupply
- LIDAR Terrain Mapping
- Geo-location / Emitter Mapping
- Long Range Comm Relay
- ISR
- IED Detection
- Path Clearing / Convoy Protection

\* Requires additional technology



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### Specifications



Operate in complex environments



Self-launch/land in unprepared terrain; Intake filters protect engine from FOD

### DP-12 Rhino

- Deploy in 15 minutes
- User-friendly waypoint navigation
- Simple, one-person operation
- Onboard processing for real-time, high bandwidth imagery, data
- Increase range: Trade payload for fuel to optimize endurance for your mission
- Detailed aircraft status information



#### Characteristics

Weight	400 lbs GVW
Temperature	-12 F to 120 F (-12 C to 50 C)
Electric generator	2 kW, 28 VDC <sup>†</sup>

#### Sensors and Capabilities

LIDAR, IMU, GPS	Yes
Ultrasonic rangefinder	Yes
Nap of earth (NOE) flight	Yes
NLOS operation	Yes

#### Airframe Specifications

Model	DP-12
Gear type	Fixed*
Fuselage length	6.7 ft
Fuselage width	18 inches
Height	54 inches
Rotor diameter	9 feet
Rotor separation	68.07 inches

#### Communication Packages

Iridium Satcomm

<sup>†</sup> Other options available



Learn more:

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[www.youtube.com/dragonflypicturesinc](http://www.youtube.com/dragonflypicturesinc)

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