Integrator VTOL

High Seas, Long Endurance



UNCREWED AIRCRAFT SYSTEMS



Battle-tested Integrator UAS now offers no-sacrifice, maritime-ready VTOL capability for current and future customers. FLARES Vertical Takeoff and Landing system brings the smallest possible operational footprint to Integrator's best-in-class, modular payloads while preserving maximum endurance for long-range ISR and targeting.

FLARES is developed and produced by Hood Tech Corporation.

KEY FEATURES & BENEFITS

Same capability, smaller footprint

FLARES is a battery-powered vertical launch and recovery system for fixed-wing Integrator.

- No aircraft modifications required
- No stationary launch and recovery equipment required

VTOL without the sacrifice

Offers the same 27.5 hours of endurance and up to 40 lb of payloads across up to 10 bays.

No booms, no drag—no compromise

Increased portability & self-sufficiency

Small packout and footprint enable rapid repositioning and operation in tight spaces on land or ship.

 Unpack and launch with three operators in as little as 30 minutes

Optimized for maritime

Operates in challenging conditions like high seas and gusty winds, where tail-sitter aircraft cannot.

- Launches/recovers from small vessel. helicopter decks
- Small stowage footprint
- Leverages lower center of gravity and wide base to handle high pitch and roll
- FLARES reliably completes mission even with a rotor out

Common Ground Control Station

Small, modular, and expandable to minimize your footprint for expeditionary missions

- Multiple configurations for ultimate flexibility
- Available with auto-launch feature
- Multiple SATCOM datalink options available, including PLEO and GEO.



30 YEARS OPERATIONAL EXPERIENCE

1.5 MILLION **FLIGHT HOURS**

OPERATIONS

SYSTEM MODULARITY

SERVICES. **ACQUISITION** AND FMS

GLOBAL

Integrator VTOL

Proven on land and sea in the harshest conditions







LAUNCH

FLARES mated with Integrator, climbs vertically to altitude (500 ft AGL), dashes into wind and releases Integrator into fixed-wing flight (<5 minutes).

- FLARES returns to land/ship following reference GPS.
- In case of aborted launch, FLARES returns and lands vertically with Integrator still attached.



RECOVERY

FLARES takes off vertically tethered, hoisting capture rope into the air (~300 ft). Integrator catches on vertical line via wing hook (<5 minutes).

- FLARES descends as capture rope is spooled onto winch on Mast Augmented Recovery System (MARS) and Integrator settles onto top of mast.
- Unloaded FLARES lands on deck.



INTEGRATOR SPECIFICATIONS

SIZE AND WEIGHT

Length: 8.2 ft / 2.5 m

Wingspan: 15.7 ft / 4.8 m

Max takeoff weight: 175 lb / 79 kg

Max payload weight: 40 lb / 18 kg

PERFORMANCE

■ Endurance: 27.5 hours

• Ceiling: >19,500 ft. / 5,944 m

 Max horizontal speed: 90+ knots / 46.3 m/s

Cruise speed: 55 knots / 28.3 m/s

• Engine: EFI using JP-5/JP-8 fuel

PAYLOAD OPTIONS

- EO telescope (high zoom day FMV)
- MWIR/EO dual sensor (day & night FMV)
- Wide-area maritime search (Al-assisted)
- Laser designator/pointer/rangefinder
- Synthetic Aperture Radar (SAR)
- Alternative Navigation (Alt-Nav)
- Kinetics
- SIGINT, EW, comms relay, and more

PAYLOAD INTEGRATION

- On-board power: 350 W for payload
- On-board connectivity: Ethernet (TCP/IP)
- Extended Range variant available

FLARES SPECIFICATIONS

WEIGHT

 Max Integrator weight up to 175 lbs (79 kg)

TEMPERATURE RANGE

-20 to +45 C

WIND RANGE

- 0-30 knots
- 10 knot gusts

DECK MOTION

- +/- 10 degrees roll
- +/- 5 degrees pitch

PACKOUT FOR FULL MISSION SET

 463L pallet: 108 x 88 x 62 inches (2.74 x 2.24 x 1.57 m)

