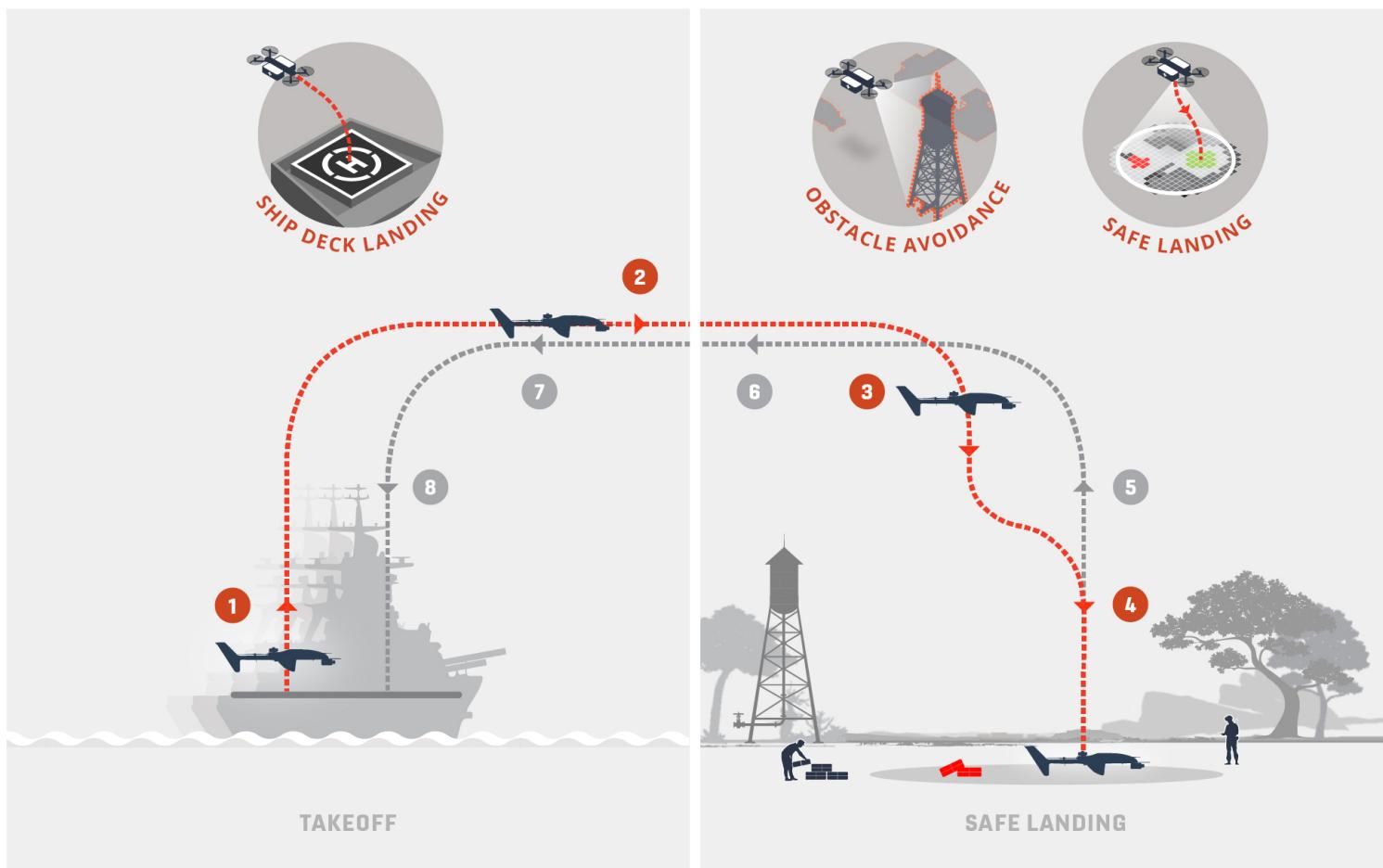


Firefly

Compact autonomy system enables safe and reliable Beyond Visual Line of Sight (BVLOS) flight. Capabilities include autonomous ship recovery and ship-to-shore CONOPS: Departure, approach, and precise cargo deliveries in unprepared, confined environments.

SHIP-TO-SHORE CONOPS | Safe Landing to Unprepared, Confined, Emission Control (EMCON) Environments



1. SHIP DECK
TAKE-OFF

2. CRUISE

3. SAFE LANDING IN
UNPREPARED ENVIRONMENTS

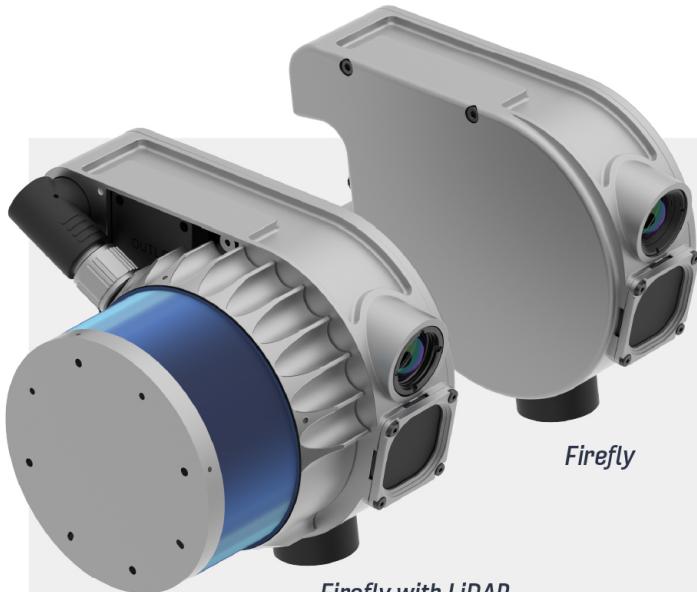
4. LANDING &
DELIVERY

8. SHIP
LANDING

7. SHIP ACQUISITION
& TRACKING

6. CRUISE

5. RETURN
TO SHIP



Firefly with LiDAR

Firefly Key Features & Functionality

- ▶ Low size, Weight, and Power (SWaP)
- ▶ Ship Recovery (Acquisition and Landing) in Emission Control (EMCON) Environments
- ▶ Safe Landing in Unprepared, Confined Environments (Day or Night, with LiDAR)
- ▶ Obstacle Avoidance for Safe Autonomous Flight, Departure & Approach (with LiDAR)
- ▶ Precise Landing for Night & DVE, Hand-Deployed Radio Beacons and Structured Environments IR Beacons (Optional Upgrades)
- ▶ National Defense Authorization Act (NDAA) 2023 Compliant

Capabilities can be separated or bundled to fit customer needs.

Firefly is integrated on multiple aircraft including:



Firefly with LiDAR shown on the example vehicle above. We can help integrate our autonomy systems with a wide range of aircraft.

Firefly with LiDAR

Preliminary Specifications

Weight:	900 g (2.0 lbs)
Size:	10 x 11 x 13 cm (4 x 4 x 5 in)
Perception:	LiDAR, Infrared, and HD Camera Sensors
Power:	12VDC, 70W
Connectivity:	Gigabit Ethernet, USB, CAN bus, PPS
Navigation:	GNSS: Dual RTK GNSS-INS external module
Environment:	Landings on grass, gravel, concrete, soil, or precision landing platform

Firefly

Preliminary Specifications

Weight:	450 g (1.0 lbs)
Size:	4 x 11 x 13 cm (1.5 x 4 x 5 in)
Perception:	Infrared and HD Camera Sensors
Power:	12VDC, 50W
Connectivity:	Gigabit Ethernet, USB, CAN bus, PPS
Navigation:	GNSS: Dual RTK GNSS-INS external module