

ENVOY

REMOTELY PILOTED HELICOPTER

- » Tandem-rotor
- » Heavy Fuel Engine
- » Robust and Reliable
- » Versatile and Adaptable
- » Max. 180 kg Payload Capacity



GENERAL DYNAMICS
Mission Systems

ENVOY

A VERSATILE MULTI-MISSION REMOTELY PILOTED HELICOPTER

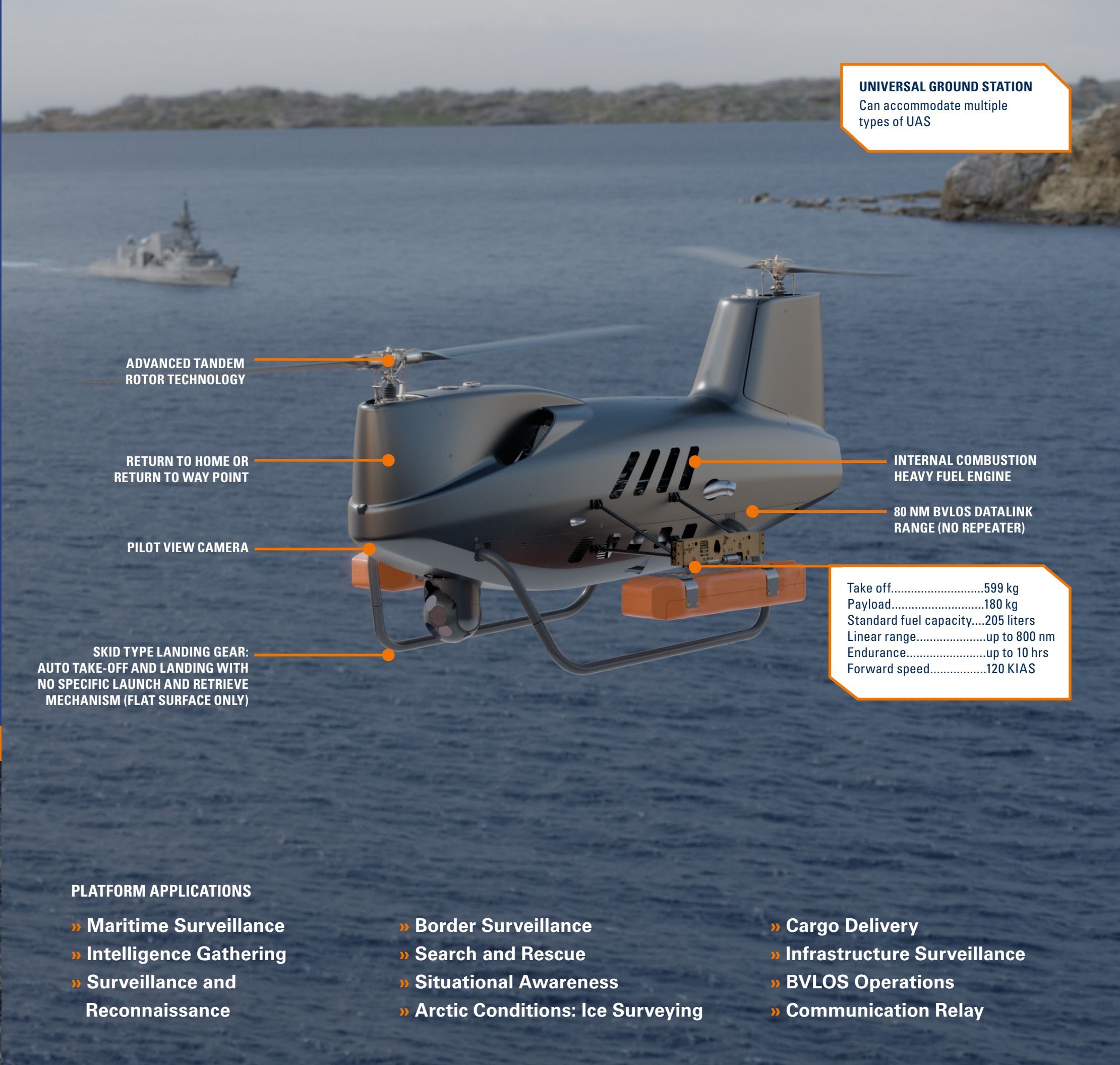
Military, Security, and Surveillance

- » Wide Area Search (ViDAR)
- » Deploy Survival Kits (SKAD) to persons in water and Long-Endurance Monitoring of Persons or Vessels in Distress
- » Support a wide range of sensors and payloads, including visual, AIS, EW (including R-ESM), radar, and others.
- » Shipborne ASW, including sonobuoy deployment and on-board acoustic processing.
- » Ground or Shipborne Light Strike (i.e. light missile, light torpedo)
- » Pollution Detection, including IR/UV line scanning, VIS line scanning, SLAR, and Multi/Hyper Spectral sensors.
- » High-Resolution, Geo-Referenced mapping of areas of interest.
- » Ground Cargo (rear operating base to front line)
- » Shipborne Cargo (ship to shore, shore to ship, ship to ship)
- » Precision Hoisting
- » Ground or Shipborne ISR

Safety

- » Automated Take Off & Landing
- » Auto-Rotation (Emergency Descent)
- » Ship Take Off & Landing
- » Dual BVLOS Datalinks

TANDEM-ROTOR ADVANTAGE



UNIVERSAL GROUND STATION
Can accommodate multiple types of UAS

ADVANCED TANDEM
ROTOR TECHNOLOGY

RETURN TO HOME OR
RETURN TO WAY POINT

PILOT VIEW CAMERA

SKID TYPE LANDING GEAR:
AUTO TAKE-OFF AND LANDING WITH
NO SPECIFIC LAUNCH AND RETRIEVE
MECHANISM (FLAT SURFACE ONLY)

INTERNAL COMBUSTION
HEAVY FUEL ENGINE

80 NM BVLOS DATALINK
RANGE (NO REPEATER)

Take off.....599 kg
Payload.....180 kg
Standard fuel capacity....205 liters
Linear range.....up to 800 nm
Endurance.....up to 10 hrs
Forward speed.....120 KIAS

PLATFORM APPLICATIONS

- » Maritime Surveillance
- » Intelligence Gathering
- » Surveillance and Reconnaissance
- » Border Surveillance
- » Search and Rescue
- » Situational Awareness
- » Arctic Conditions: Ice Surveying
- » Cargo Delivery
- » Infrastructure Surveillance
- » BVLOS Operations
- » Communication Relay

ENVOY

TECHNICAL INFORMATION



Dimensions (L x H x W)	3 x 1.8 x 1.2 m / 9.8 x 5.9 x 3.9 ft	
Rotor Diameter	4 m / 13.1 ft	
Weight	Empty	350 kg / 770 lb
	Maximum Takeoff	599 kg / 1320 lb
Capacity	Maximum Payload	180 kg / 395 lb
	Maximum Fuel	205 l
Launch and Recovery	Vertical takeoff and landing	
Propulsion	Continental CD-170R	
Usable Fuels	F-44 (JP-5) (and EN 590 Diesel, Jet A, Jet A-1, DEF STAN 91-86, JP-8, DEF STAN 91-91, JP- 8+100)	
Endurance (Payload Capacity)	10 h (20 kg) / 6 h (80 kg) / 3 h (140 kg)	
Link range	80 nm (150 km), BVLOS extendable with relay capability.	
Speed	Maximum	222 km/h (120 kts)
	Cruising	167 km/h (90 kts)
	Best Endurance Cruise	111 km/k (60 kts)
Ceiling	5486 m (18,000 ft)	
Environment	Temperature	-35°C to 40°C
	Wind gusts	40 kts
	Precipitation (Snow, mist, rain)	Yes
	Sea water corrosion resistant	Yes
Ground Control Station	STANAG 4586 compliant, Rugged and rigid, Customizable multi-display console, Tablet based belly-pack system, pre-program autopilot/manual override mode, Custom mission & flight simulator	
Payloads	EO/IR/LRF, Multimode Surveillance Radar/Synthetic Aperture Radar, AIS, ASW, Pollution Sensing, Ice Mapping, Electronic Surveillance/COMINT, Communications Relay, SKAD kits	



PAYLOAD CAPACITY



ENDURANCE



RELIABILITY