



# CENTAUR

Optionally-Piloted  
Aircraft System

## UNMANNED MULTI-DOMAIN ISR - AUTONOMY AND SENSOR DEVELOPMENT

Centaur OPA is a flexible, multi-role system for manned, hybrid or unmanned flight operations.

### CAPABILITIES

#### Multi-Domain Intelligence, Surveillance, and Reconnaissance

- High resolution, wide swath SAR mapping
- Stabilized high definition multi-spectral imaging
- HD infrared and color camera with continuous zoom
- Platform-based on a certified twin-engine general aviation aircraft
- Advanced automation feature for unmanned or pilot-augmented operations
- Automated contingency management system
- Commercially exportable Missile Technology Control Regime category II system

#### Autonomy and Sensor Development

- Aurora's special Airworthiness Certificate provides easy access to the National Airspace System (NAS) for rapid development
- Stable, highly accurate and repeatable autopilot features
- Flexible payload architecture allows integration for a variety of sensors
- Very high fuel efficiency; loiters on less than 8 gal/hr

### PAYLOAD AND PERFORMANCE

<b>Mission Endurance</b>	16 hrs with baseline payload
<b>Range</b>	Up to 2,000 nm
<b>Baseline Payload</b>	Multi-mode radar with up to 175 nm large target detection range Stabilized HD EO/IR gimbal with laser rangefinder Dual AIS receiver
<b>Communication</b>	Dual LOS IP datalinks UHF/VHF radios IFF ADS-B transponder
<b>Sensor Options</b>	Other ISR sensors Communications package Gravimeter Environmental monitoring package
<i>(Up to 650 lbs available)</i>	
<b>Payload Power</b>	Up to 5.6 kW
<b>Speed</b>	Loiter 85 kts; cruise 135-160 kts
<b>Altitude</b>	Up to 25,000 ft
<b>Optional</b>	SATCOM and anti-ice