



Aeronautics



# DOMINATOR XP MALE UAS

The powerful Dominator XP Medium Altitude Long Endurance (MALE) UAS is designed to carry multiple large payloads and to perform tactical and strategic, long-range BLOS missions. Dominator XP is capable of all-weather and denied-GPS operation for strategic ISR, maritime surveillance, and homeland security missions. The maritime Dominator configuration offers the additional capability of under-water detection combined with traditional sea surveillance. Dominator supports traditional maritime surveillance including detection of small targets in high seas, and provides superior sea-search mode performance, with ISAR and Synthetic Aperture Radar (SAR), Search and Rescue Transponders (SART) beacon detection, an Automatic Identification System (AIS) and a weather-detection mode.



## Who We Are

Heading an industry group focused on unmanned solutions, systems and subsystems, CP Aeronautics provides integrated turnkey solutions based on unmanned systems platforms, payloads and communications for defense and civil applications. Designed as leading-edge UAS-based solutions, CP Aeronautics' systems offer operationally proven solutions for Intelligence, Surveillance and Reconnaissance (ISR) systems requirements. As a pioneer in the field of unmanned aerial systems, CP Aeronautics broad product portfolio has demonstrated excellent performance and operability.

Backed by continuous research and development, these systems are built on three decades of technological and operational experience.

**Assembled in the USA**  
**ISO 9001:2015 Certified**  
**ITAR Registered**

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# PRODUCT

## MAIN FEATURES

- Multi-sensor, multi-mission system
- Maritime Surveillance capabilities
- Options for internal & external payload integration
- Data link - LOS, BLOS - SATCOM
- Automatic Take-off and Landing (ATOL)
- Easy airspace integration
- Autonomous mission programmable flight modes
- GPS/INS navigation, operational in denied GPS zones
- Civilian physical appearance
- LAN based GCS, C4I compatible
- Built-in flight & mission simulator

## APPLICATIONS

- ISTAR
- Electronic Warfare
- Relay mission: Air-to-air, Air-to-ground
- HLS - Border/Coastal protection

## MARITIME APPLICATIONS

- Anti-submarine warfare
- Maritime surveillance
- Fishery monitoring
- Search & rescue

## SPECIFICATIONS

<b>ENDURANCE</b>	> 20 hours
<b>HEIGHT/LENGTH</b>	2.5m/8.6m
<b>WINGSPAN</b>	13.5 m
<b>MTOW</b>	1910 kg
<b>PAYLOAD WEIGHT</b>	373 kg
<b>MAX SPEED</b>	150 kt
<b>DATA LINK</b>	LOS, up to 300 km BLOS-SATCOM, unlimited



## MARITIME SURVEILLANCE

Dominator supports traditional maritime surveillance including detection of small targets in high seas, and provides superior sea-search mode performance, with ISAR, Synthetic Aperture Radar (SAR), Search and Rescue Transponders (SART) beacon detection, an Automatic Identification System (AIS) and a weather-detection mode.

## DATA LINK

Dominator XP uses an advanced digital, multi-channel Line of Sight (LOS) data link system (C/L/S & UHF bands), which enables real-time command and control at ranges of up to 300km. In addition, the platform can accommodate a Satellite Communications (SATCOM, KU/KA) terminal enabling operations beyond line of sight, via geo-stationary satellites.

## FLIGHT CONTROL

The CP Aeronautics proprietary state-of-the-art UMASTM on-board control system integrates the controls of all the aerial platform's subsystems, including propulsion, avionics, power, payload and communications. UMAS also implements multiple autonomous programmable flight modes meeting specific mission and user requirements. In addition, the CP Aeronautics advanced navigation systems provide the Dominator XP with excellent flight and sensor accuracy, allowing full mission continuity even in denied-GPS environments.

## AIRCRAFT

Based on the fully verified Diamond DA-42 Twin-Star commercial aircraft, Dominator XP is designed to meet the highest safety standards of commercial aviation. Dominator XP is equipped with an active anti-icing system, twin engines, and with triple redundancy in all critical avionics. It has the capability to sustain straight and level flight with one of its turbo-diesel engines shut down. The reliability of the Dominator XP is founded on the operational experience of innumerable flight hours, including military and HLS operational missions for several NATO members.

## PAYLOADS

All Dominator XP system configurations support multiple payloads up to 373 kg in weight. Implementing an open architecture interface, Dominator XP can carry a vast range of payloads, including EO/IR and hyper-spectral sensors with laser pointer and designator, maritime radar, SAR/GMTI radars, communications relays, COMINT, ELINT, MAD and additional sensors.

## GROUND CONTROL STATION

The Ground Control Station (GCS) of Dominator XP is equipped with real-time control tools for fail-safe flight operation and with user-friendly interface for route planning, choice of operational modes, payload control and target localization and designation. The GCS open architecture provides flexibility for future interface with customers' systems.