



SPECIAL MISSION AIRCRAFT



precision from above

PANDION 
MARITIME PATROL TURNKEY SOLUTION

COASTAL & MARITIME SURVEILLANCE.

Diamond's all in one solution for coastal surveillance consists of a light weight search radar, an electro-optical and infrared gyro stabilized gimbal camera and a commercial satellite communication system. Using no ITAR components guarantees fast worldwide delivery on short notice.



DIAMOND GROUNDSTATION

Diamond's in-house designed groundstation is a compact and portable ground communication solution. Operators benefit from high sophisticated state of the art video and data management. VoIP and text chat via SATCOM enables permanent communication between aircraft and ground. The entire system provides an overall situational awareness. Full motion video and snapshots are recorded with metadata for further legal investigations.



EO/IR SENSOR SYSTEM

The EO/IR camera is a proven cost-effective compact multi sensor surveillance system. For stable imaging, a fully digital 4-axis active gyro-stabilized system compensates for aircraft movements and vibrations.

TECHNICAL SPECIFICATIONS

| | |
|----------|---------------------|
| Weight | 20 kg |
| Daylight | 1280 x 720 |
| Infrared | 640 x 512 |
| Zoom | 60° - 2° / 25° - 2° |

INTEGRATED MISSION MANAGEMENT SYSTEMS

The integrated augmented reality moving map system provides full situational awareness.

MARITIME RADAR

The maritime radar is a light weight compact radar which has been modified by Diamond Aircraft for airborne applications. It has a maximum range of 66 km (36 nm) and is equipped with an AIS receiver (Automatic Identification System), which provides a situational overview of the actual ship traffic within the range of the radar.

TECHNICAL SPECIFICATIONS

| | |
|-----------|---------------|
| Weight | 7.5 kg |
| Frequency | X-Band |
| Range | 36 nm / 66 km |
| TX Power | 4 kW peak |

BLOS SATCOM

With BLOS SATCOM, the crew has the possibility to work online, send emails, browse the web, use VoIP, transmit snapshots from the radar or stream live video from the electro-optical camera.

TECHNICAL SPECIFICATIONS

| | |
|-----------|-----------------|
| Weight | 4.3 kg |
| Frequency | L-Band |
| Interface | Ethernet / WiFi |
| Datarate | up to 400 kbps |

DA42 MPP TECHNICAL SPECIFICATIONS

- In-house designed JET-A1 multi fuel engines → global operation due to fuel independency
- Full carbonfibre composite structure → unlimited life time
- No corrosion allows long endurance oversea operation
- Most modern airliner standard → Garmin G1000 glass cockpit
- Fully integrated GFC700 autopilot system → various search and rescue pattern

OPERATIONAL CAPABILITIES

- 620 kg payload for crew, fuel and mission equipment
- 76 US gal → 6.4 US gal per hour total, observation mode → on target 9.5 hrs
- Lowest direct operating and maintenance cost



DIAMOND AIRCRAFT INDUSTRIES GMBH

N. A. Otto-Strasse 5, 2700 Wiener Neustadt, Austria

Phone: +43 2622 26700, Fax: +43 2622 26780 1317

sales@diamond-air.at, www.diamond-air.at

Contact us today at +43 2622 26700 1317

Or find more information and your local Diamond distributor online at www.diamond-air.at.

For detailed information about our Special Mission Aircraft please visit:

www.diamond-sensing.com