

DA62 MPP MSA





# MARITIME SURVEILLANCE AIRCRAFT

ATOS  
(AIRBORNE TACTICAL  
OBSERVATION AND SURVEILLANCE)

BLOS  
(BEYOND LINE OF SIGHT)  
SATCOM



EO/IR CAMERA  
ON WX MULTI PURPOSE NOSE

GABBIANO TS-80  
ULTRA-LIGHT RADAR



# MISSION EQUIPMENT CONFIGURATION

## EO/IR CAMERA Safran „EuroFlir 410“

The EuroFlir 410 from Safran ultra-long-range electro-optical system offers the performance and power to meet the top requirements of an EO/IR sensor.

### KEY FEATURES

- Wide field-of-view & ultralong-range observation at the same time
- Precise target geolocation & designation thanks to full laser functions and embedded INS
- Enhanced detection & identification for greater mission effectiveness
- Non ITAR

### TECHNICAL CHARACTERISTICS

- 4-axis stabilization & INS embedded
- Digital Video: HD-SDI, Ethernet
- Analog Video: STANAG 3350A
- Dimension: Ø 406 mm (16")  
<53 kg (<116,8 lbs)
- E-zoom: down to x4
- 10 sensors
- TV: 0.4 - 0.7µm; 25° up to 0.33°;  
1920 x 1080
- NIR: 0.7 - 0.95 µm; 0.39°; 1920 x 1080
- SWIR: 0.95 - 1.7µm; 0.55°; 640 x 512
- MWIR: 0.4 - 0.7µm; 33.3° up to 1.2°;  
1280 x 720

## SATCOM

Thuraya's L-band satellite network enables the real-time transmission of HD aerial video and position data from the aircraft to the mission control centre. The live surveillance imagery, flight tracking, and duplex data will be displayed on the ground using SCOTTY's Mobile HD portable receive station that supports critical applications including live exchange of ISR information, transmission of border/coastal patrol imagery and first-responder support.

### KEY FEATURES

- Low weight
- COTS Components
- PAX and PIC communication
- Newest generation hardware coder/decoder and processing unit
- Audio, live Full-HD video and real-time high speed data applications over satellite
- Full duplex video communication
- Snapshot transmission and video recording for all kind of different applications
- Built in AES256 encryption
- User friendly operation

### TECHNICAL CHARACTERISTICS

- Weight: 16.68 kg (36.8 lbs)
- Power: 250 Watts typical maximum
- Certification: DO-160G
- Frequency: L-Band
- Temperature: -20°C to +55°C
- Data Rate: Dual Channel with data Rates up to 444 kbps per channel (channel bundling possible)

upon request the system can be modified to be compatible with Inmarsat (data rates may differ)

## GABBIANO ULTRA-LIGHT TS-80 RADAR

The light weight surveillance radar provides an extensive suite of modes including optimised maritime patrol capabilities, high resolution ground mapping via synthetic aperture radar (SAR) modes, ground moving target indication (GMTI) and weather avoidance modes.

### KEY FEATURES

- Low power consumption
- 360° azimuth scan surveillance
- LPI capability
- TWS up to 200 targets
- ECCM capabilities
- Short blind zone
- High resolution imaging modes and target recognition
- Maritime surveillance, up to 160NM
- High reliability
- Standard and flexible interfaces
- Low weight
- COTS Components
- User friendly operation

### TECHNICAL CHARACTERISTICS

- Weight: 47 kg (104 lbs)
- Rotation: 360°
- Frequency: X-Band
- Interface: Ethernet plus Mil Std 1553B, ARINC 429, RS422 and ARINC 708
- MTBF: 2000 hours
- Input power: 1,100W single power source 28VDC
- Fully coherent transmitter: Solid state power amplifier
- Average transmitted power: 80W
- Air cooled



*The DA62 MSA is outfitted with a full Intelligence, Surveillance and Reconnaissance (ISR) suite based on Leonardo's ATOS (Airborne Tactical Observation and Surveillance) mission system and deliver a single, intuitive operational picture to the crew. Sensor options will also be offered for users who require additional capability, including Leonardo's SAGE electronic support measures (ESM) system and Spider communications intelligence (COMINT) system. SAGE provides tactical threat awareness and strategic intelligence gathering in the radio-frequency (RF) environment, while Spider can detect, intercept, identify and geo-locate communications of interest.*