

GROUND MASTER 400

EXTENDED AIR DEFENCE MISSIONS

AIR COMMAND AND CONTROL MISSIONS

BATTLEFIELD SURVEILLANCE AND COORDINATION MISSIONS

COMBINED COMMAND AND CONTROL MISSIONS




ThalesRaytheonSystems

The First Fully Digital Long Range High Medium Low Altitude Radar

GROUND MASTER 400

New threats

Traditional notions of peace and war are giving way to a permanent emergency situation, with different levels of severity and multi-faceted air threats (combat aircraft, helos, UAV, ballistic missiles, airliners, light passenger aircraft) in particular at low or very low altitude.

Ground Master Family

The Ground Master is a family of versatile, multimission air defence radars, dedicated to the protection of key assets and forces deployed in remote theatres.

The Ground Master is the first product to combine three revolutionary concepts: 'digital radar', 'e-radar' and 'green radar'.

The Ground Master 400 is specifically designed to meet the following operational requirements:

- High detection performance
- High availability and simplified maintenance
- High mobility



Performance

- Fully digital
- Digital Beam Forming
- Stacked beam (Maximum time on target)
- Antenna rotation speed: 6 seconds
- S-Band
- Full Doppler modes
- ECCM capabilities
- Detection domain (air breathing targets)
 - Instrumented range: 470 km
 - Minimum detection range: 5 km
 - Ceiling: up to 100,000 feet
 - Elevation coverage: 20°
- TBM capability

Reliability

- MTBCF: 3,500 hours (fixed radar under radome)
- Availability > 99.9%
- High level of redundancies (transmitters, receivers, ancillaries, processing parts)
- Graceful degradation
- Air cooled solid state transmitter
- Fibre optics
- Permanent remote information (Unmanned)
- Chosen and planned maintenance with limited team
- Annual downtime for preventative maintenance: 30 hours

Deployability/Survivability

- 1 single package (20 feet ISO standard container, 10 tons)
- Plug, play and operate in Network Centric Operations
- Radar installation: 1 hour/6 people
- Safety and security for operators operating in a remote control way
- One single truck, one tactical aircraft (C-130 type) or helicopter



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