

MASTER-A 3D MULTI-FUNCTION AIR DEFENSE RADAR

EXTENDED AIR DEFENSE MISSIONS

AIR COMMAND AND CONTROL MISSIONS

BATTLEFIELD SURVEILLANCE AND COORDINATION MISSIONS

COMBINED COMMAND AND CONTROL MISSIONS




ThalesRaytheonSystems

MASTER-A 3D MULTI-FUNCTION AIR DEFENSE RADAR

Description:

New threats, new requirements

Every sovereign nation shall prepare to cope with the global military capabilities that will be prevalent in the coming years: the spread of ballistic missiles and the appearance of sophisticated weapons such as high-maneuvering aircraft, UAVs or cruise missiles.

Securing your future

Conventional Air Command & Control Systems fit with conventional threat. With its unique features, Master-A is specifically designed to enhance existing systems and make them effective against all these emerging threats.

Master-A is a first step towards the rising world of Extended Air Defense.

Features:

- Electronic scanning in azimuth (+/- 40°) and elevation (0 to 60°)
- Data rate: 4 seconds (rotating mode)/up to 0.1 second (staring mode, antenna stopped)
- S (I-J) band
- Large operating bandwidth: 400 MHz
- Fully solid-state T/R modules

Operational use

- Unattended
- Stand-alone with co-located C2 facility
- Backbone integrated in air operation network

Detection envelope

- Instrumented range: Surveillance: 300 km
Tracking: 370 km
- Ceiling: up to 80,000 ft (surveillance)
- Elevation coverage: 60°

Accuracy/Discrimination on combat aircraft

- Range: normal resolution 30 m/220 m
high resolution: better than 50 m
- Azimuth: up to 0.1° (high precision)
- Height: 1,700 ft at 100 Nm (high precision)

Transportability (land, sea and air)

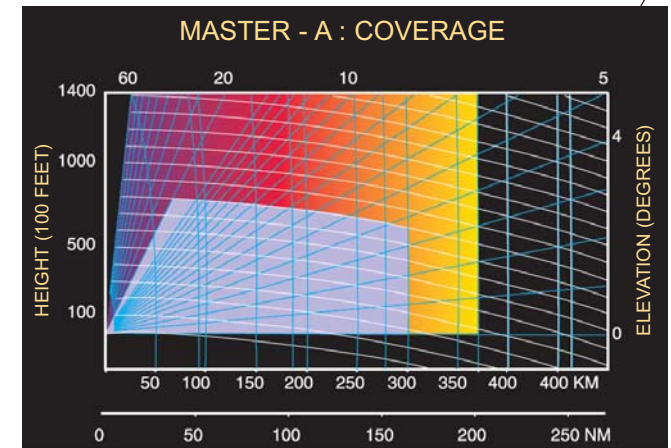
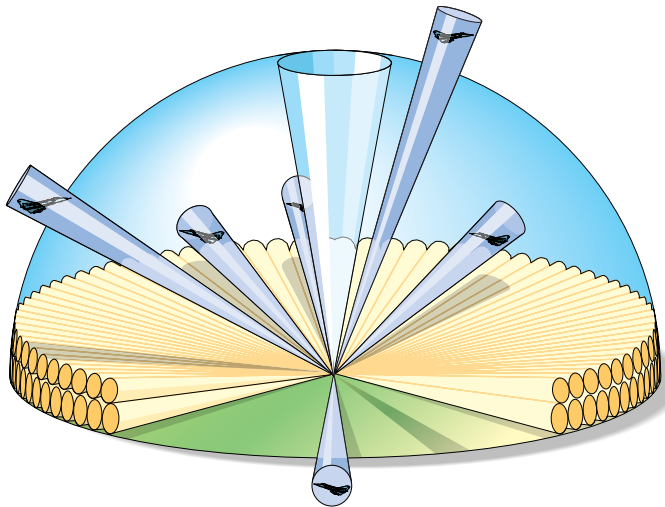
- Three 20-foot ISO containers and one 20-foot ISO platform
- Three 10-ton trucks + one 20-ton trailer
- Aircraft (C-130 type)

Deployment

- Assembly/disassembly: 90 minutes/8 people

Miscellaneous

- MTBCF > 1,100 hours
- Availability > 99.9%



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