

MASTER-S INTERMEDIATE RANGE TACTICAL 3D SURVEILLANCE AIR DEFENSE RADAR

EXTENDED AIR DEFENSE MISSIONS

AIR COMMAND AND CONTROL MISSIONS

BATTLEFIELD SURVEILLANCE AND COORDINATION MISSIONS

COMBINED COMMAND AND CONTROL MISSIONS




ThalesRaytheonSystems

MASTER-S INTERMEDIATE RANGE TACTICAL 3D SURVEILLANCE AIR DEFENSE RADAR

Description:

Facing skimming threat

Increasingly, modern air threats rush in at a very low altitude. Cruise missiles, UAV, attack helicopters and fighters with advanced terrain avoidance systems are designed to strike at the heart of your defenses. Often they are masked from the main long-range surveillance radar.

To face the threat, defenders shall detect, locate, track and evaluate all incoming targets, down to edge hopping, even with heavy ground clutter.

To serve and survive

To fill gaps in coverage and provide timely threat warning, Master-S is the ideal solution. With its single 20-foot ISO package, Master-S can be transported by aircraft (C-130), helicopter (CH47) or any 10-ton class all-terrain truck. Time to deploy does not exceed half an hour and within few minutes, surveillance is effective.

Advanced design features including a low-peak-power distributed solid-state transmitter and an ultra-low-sidelobes antenna, make Master-S a highly survivable radar – as hard to jam as it is to detect.

Master-S, your devoted servant

As a stand-alone system or connected to a radar network, Master-S provides totally secure air surveillance for a broad range of operational requirements:

- Gap-filler within an air surveillance network
- Key point or area defense
- SRE (Search & Rescue Equipment) or Airbase surveillance

Features:

- S-band
- Large operating bandwidth: 400MHz
- Fully solid-state transmitter
- Complete remote control capability

Detection envelope

- Instrumented range: 200 km
- Ceiling: up to 30,000 feet
- Elevation coverage: up to 45°

Accuracy/Discrimination on combat aircraft

- Range: 30 m/300 m
- Azimuth: 0.2°/3.5°
- Elevation: 1,500 feet at 100 km

IFF system

- Co-mounted secondary antenna
- Modes: 1, 2, 3/A, C, Secure
- Fully solid-state

Transportability

- One 10-ton truck
- One C-130 lift

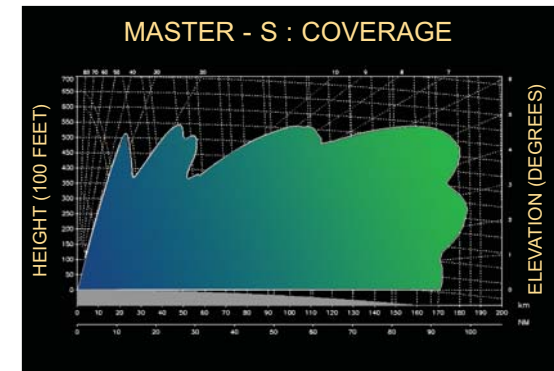


Deployment

- Unprepared site
- Assembly/disassembly: 30 minutes/4 people

Miscellaneous

- MTBCF > 1,200 hours
- Availability > 99,7%



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