

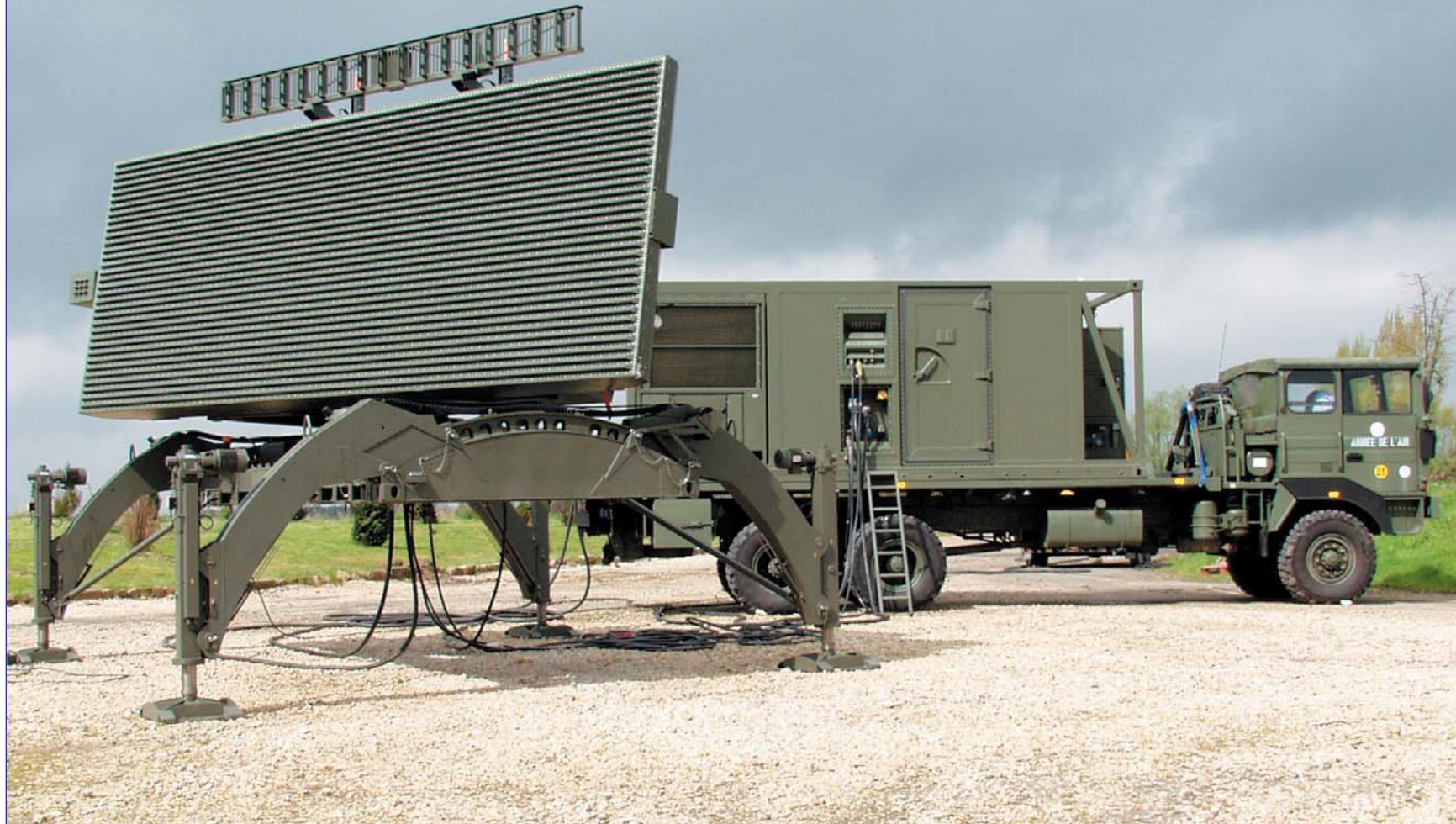
# MASTER-T LONG RANGE TACTICAL 3D SURVEILLANCE RADAR

EXTENDED AIR DEFENSE  
MISSIONS

AIR COMMAND AND  
CONTROL MISSIONS

BATTLEFIELD  
SURVEILLANCE  
AND COORDINATION  
MISSIONS

COMBINED  
COMMAND AND  
CONTROL MISSIONS



  
**ThalesRaytheonSystems**

# MASTER-T LONG RANGE TACTICAL 3D SURVEILLANCE RADAR

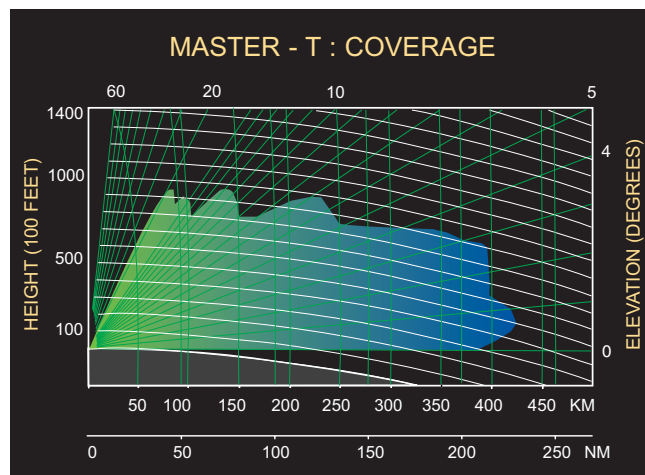
## Description:

### Carry, unfold, watch

Master-T is a robust, tactical 3D radar designed for air surveillance and air defense roles. Packed in two 20-foot ISO parcels, Master-T is transportable by road (10-ton vehicles), air (C-130H), rail and sea and can be deployed on unprepared sites. Radar installation takes a maximum of 30 minutes with a crew of four. Ten minutes later, two high-definition color displays in the radar cabin provide a precise 3D air picture out to 440 km with 360° coverage.

### Peace of mind

Technology and fault-tolerant architecture ensure high operational availability. Mean time between critical failures (MTBCF) exceeds 1,500 hours. So logistic support is drastically reduced.



### Tough on the enemy

High mobility and low infrared and electromagnetic signatures ensure high system survivability even under the worst active jamming, chaff and clutter conditions. Threat assessment is enhanced by the Master-T raid analysis function as a further guarantee of successful air operations and continued airspace control.

### Features:

- S (I-J) band
- Large operating bandwidth: 400 MHz
- Fully solid-state transmitter
- Transmission of plots and/or tracks to remote centers
- Accommodates all kinds of protocols and formatted messages

### Operational use

- Unattended
- Stand-alone with co-located C2 facility
- Integrated in an Air Command and Control network

### Detection domain

- Instrumented range: 444 km
- Minimum detection range: 8 km
- Ceiling: up to 100,000 feet
- Elevation coverage: 20°
- Range (small aircraft): 390 km



### Accuracy/Discrimination on combat aircraft

- Range: 30 m/200 m
- Azimuth: 0.3°/3°
- Height: 2,000 feet at 100 Nm

### IFF System

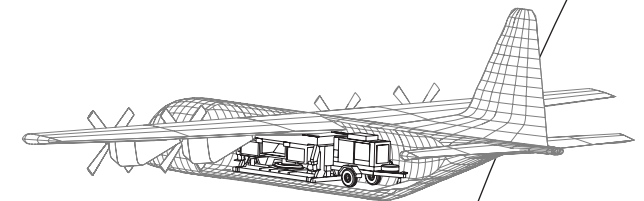
- Co-mounted secondary antenna
- Modes: 1, 2, 3/A, C, Secure

### Transportability (land, sea and air)

- One 20-foot ISO standard container and One 20-foot ISO platform
- Two 10-ton trucks
- Aircraft (C-130 type)

### Miscellaneous

- MTBCF > 1,500 hours
- Availability > 99.9%



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