

TRACK RADAR

- Superior stealth target detection in clutter
- High reliability and low life cycle costs
- Unique ECCM
- High accuracy in multipath conditions

STIR 1.2 EO Mk2 is Thales latest track radar for gun and missile fire control. Its high reliability and excellent stealth target detection capabilities support long missions. The STIR 1.2 has a set of solid state transmitters for high reliability. A full EO suite complements the dual band radar for optimal performance in demanding littoral and ECM environments.

STIR 1.2 EO Mk2

SUPERIOR STEALTH TARGET
DETECTION IN CLUTTER



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The extreme stable front end results in excellent detection of small targets in sea and land clutter environments. The high dynamic range of the low noise receivers in combination with advanced coherent Doppler processing ensure the detection of stealth targets in heavy clutter.

UNIQUE ECCM

The ECCM capabilities are enhanced by the unique use of a dual band radar. K-band jammers are rare and not very effective due to atmospheric attenuation. A full EO suite complements the radar.

HIGH ACCURACY UNDER MULTIPATH CONDITIONS

Use of K-band radar with its small beamwidth greatly reduces low elevation multipath errors.

MAIN FEATURES

- Optional CW Illumination for guidance of ESSM
- Optional stealth covers for reduced RCS
- Easy maintenance through Built-In Tests and repair by replacement
- The system is in full series production

Operational Performance

Instrumented range (air & surface)	0.3 -120 km I-band 0.3 -36 km K-band
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Installation data

Weight above deck	850 kg
Weight below deck	510 kg
Footprint	2.2 m diameter
Height	2.3 m
Width	See footprint
Power requirements	23 kVA
Cooling requirements	0.34 l/s ships cooling water

Technical Characteristics

Rotation speed	Training 2.7 rad/s, Elevation 2.5 rad/s
Elevation coverage	-30° to +120°
Frequency band	I-band and K-band
Update rate	Up to 100 Hz
Beamwidth	2° I-band, 0.5° K-band
Clutter suppression	> 65 dB I-band, > 55 dB K-band
MTBCF / MTBF	4600 hr (I-band radar) / 1660 hr
Resolution cel / range / etcd	Variable Doppler resolution, range sampling 30 m

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