

**BOR-A** is a ground and sea (coastal) surveillance radar (GSR) suitable for army, border/coast guard and security applications. It combines surveillance of ground, sea and lower level airspace in one radar system whereby moving targets will be detected, located, automatically classified and tracked day and night under all weather conditions.

BOR-A is the solution for the most demanding surveillance tasks from standalone missions to fully integrated surveillance systems.

Several hundred radars are already successfully in service in Germany and with 20 other customers (Armies, Navies, Border Guards, Security Forces) on 4 continents.



Ground, Sea & Low Level Air Surveillance Radar

## **BOR-A 550/560**





## BOR-A 550/560

### Ground, Sea & Low Level Air Surveillance Radar

#### PROVEN PERFORMANCE

BOR-A has proven performance even at long ranges especially against today's threats (small & slow targets like persons or rubber boats).

BOR-A ensures an immediate assessment of the situation by precisely displaying the targets and their behaviour directly on a digital map. The targets will be automatically classified.

Outstanding features are Track-While-Scan (TWS), an integrated Positioning & Northing Unit (option) and a most comprehensive ECCM suite (including frequency agility in a bandwidth up to 800 MHz/81 channels).

BOR-A is available with 20 W (BOR-A550) or 40 W (BOR-A560) transmitters.

BOR-A can be operated as stand-alone solution on tripod, mounted on surveillance vehicles or integrated as main sensor within larger fixed site or border surveillance systems on top of masts.

#### FEATURES

- Surveillance up to 80 km (instrumented range)
- Multiple, flexible sector scan or  $n \times 360^\circ$
- Track-While-Scan (TWS) for up to 40 targets
- Automatic Target Classification
- Most comprehensive ECCM suite
- Windows® Operating System with embedded Digital Map (GIS)
- External video image on-screen
- Remotely controllable by PC (via Ethernet)
- Standard interfaces for easy system integration/netting
- Qualified to MIL-STD 810 (up to  $+60^\circ\text{C}$ ) and MIL-STD 461

#### KEY PARAMETERS

##### I-Band Pulse Doppler Radar

	BOR-A 550	BOR-A 560
TX peak power	20W	40W
Bandwidth	200Mhz	800 Mhz
Number of channels	21	81
Typical Ranges (single scan at $8^\circ/\text{s}$ )		
Pedestrian	16 km	19 km
Vehicle	33 km	39 km
Tank	39 km	46 km
Helicopter	28 km	33 km
Fast patrol boat	35 km	48 km
Small boat	19 km	22 km
Inshore vessel	57 km	67 km
Accuracy (depending on mode)		
Range	$\pm 5$ m	
Azimuth	$\pm 3$ mils	
Scan rate	8 %s, 16 %s, (32 %s optional)	
Interfaces	2 x RS232 / 4 x RS422, 1 x Ethernet, 2 x USB, Video-in/Video out/Display out, Loudspeaker/Headset, Keyboard, Mouse	
MTBF (practical)	> 15.000 hours (fixed site application)	



#### THALES ELECTRONIC SYSTEMS GMBH

Thalesplatz 1 – 71254 Ditzingen – Germany

Tel: +49 7156 353 23449 – Fax +49 7156 353 3555 – E-mail: gsr.sales@thalesgroup.com