

## Description

The Breń – R system is dedicated for detection and recognition of the radar emissions which arrive from land - based, seaborne and airborne emitters. The typical mission of the system is intercepting, locating, classification and analysis of radar signals for rapid detection and identification of hostile battlefield threat radar emitters.



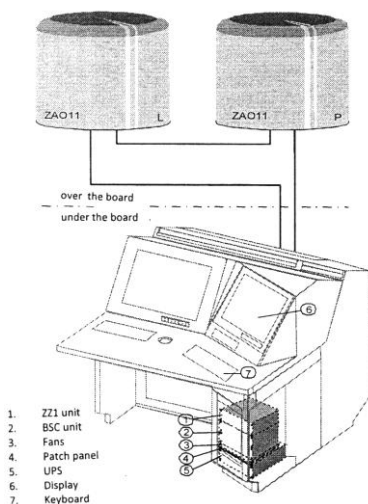
The Breń – R system - a ship's version



The Breń – R system – a Electronic Reconnaissance Container version

This system is intended to:

- detecting radar emission without searching sources
- determining direction of arriving of the detected signal,
- determining parameters of the detected signal (frequency and time parameters),
- depicting the radar situation,
- identifying sources by the comparison to the database,
- warning about the threat originating from sources emission,
- sending information to the superior system.

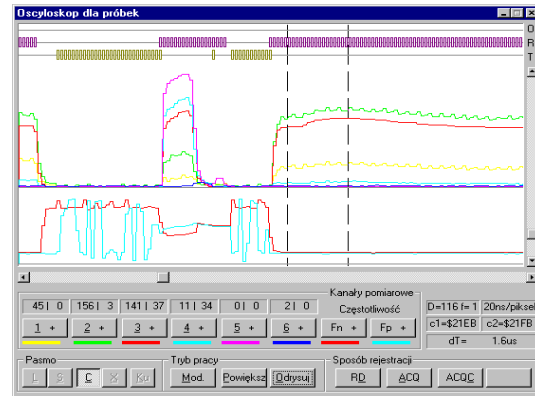
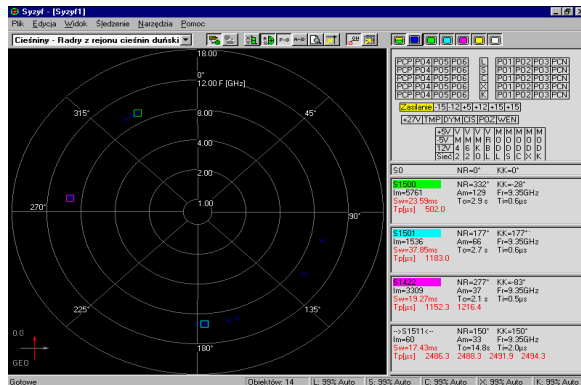


The Breń - R system consists of:

- Antenna system (ZAO – 11 or ZAO – 12) which includes:
  - a set of antennas,
  - microwave receivers,
  - frequency measurements units,
  - BITE system.
- Processing and display module (BOZ) which includes:
  - digital signal processing system with a de interleaving unit,
  - visualization module, system environment monitoring unit,
  - LAN, navigation system and on board radars blanking interface,
  - operator console with LCD monitor, keyboard and trackball.

**PIT - RADWAR S.A.**  
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Depicting the radar situation and depicting the analyser of impulses

## Specification

Frequency coverage	1 – 18 GHz [divided into 5 sub-bands]
Azimuth coverage	360°
Elevation coverage	45°
Type of polarisation of received signals	H, V, circular
Dynamic range	≥ 45dB
Direction finding accuracy	10° rms at SNR ≥ 20dB
Frequency measurement resolution	1/8 or 1/16 sub-band
Response time	≤ 2s
Database type	Microsoft Access
Supply voltage	230 V AC
Supply maximum current	< 4 A
Dimensions and weight	
The antenna system [ZAO – 11]	Φ 1030 mm x 780 mm / 70 kg
The processing and display module [BOZ]	
BSC unit	483 mm x 330 mm x 266 mm / 15 kg
ZZ1 unit	483 mm x 375 mm x 133 mm / 10 kg
UPS unit	483 mm x 394 mm x 133 mm / 35 kg

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