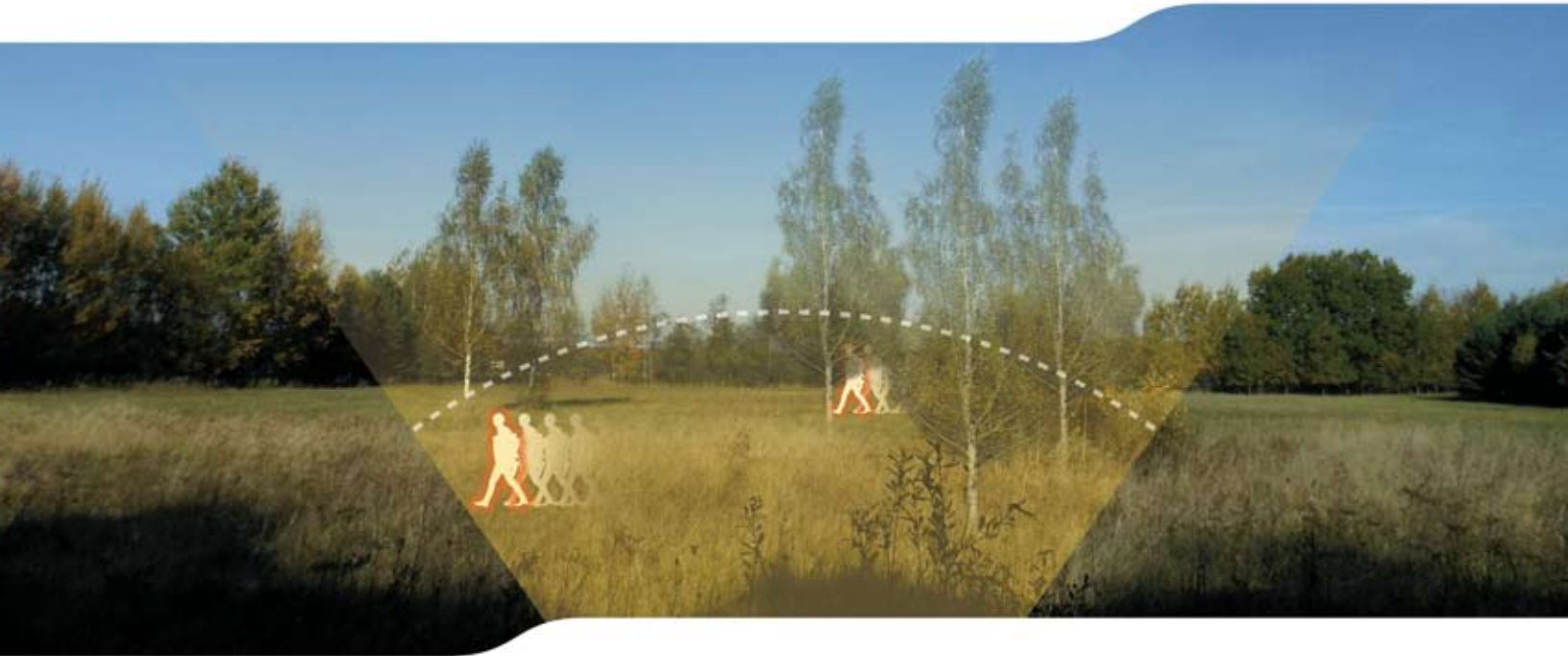


# FPR-10

## Foliage Penetration Radar



### Overview

Elbit Systems EW&SIGINT - Elisra's new Foliage Penetration Radar - FPR-10 – is a Ground Surveillance Radar (GSR) providing long-range, accurate, high-resolution detection of vehicles and personnel that are located behind foliage. The FPR-10 is designed to withstand harsh environmental conditions as well as foliage interferences and disturbances.

### Main Applications

- Borders, including tropical borders
- Critical infrastructures
- Airports and seaports
- Military bases

# FPR-10

## Foliage Penetration Radar

### Main Features

- Detection behind foliage
- Long-range detection
- Wide-area surveillance
- Low FAR (False Alarm Rate)
- Easy integration and operation
- No moving parts
- Cost-effective

Elisra's Foliage Penetration Radar, FPR-10, covers a wide range in azimuth and elevation, together with long-range detection, even in areas of dense foliage. High reliability is achieved by the radar's sophisticated design, which has no moving parts.

Large areas - including international borders, air and seaports - can be secured through the use of multiple units that together provide end-to-end, overlapping coverage.

A fully integrated, easy-to-operate solution can be customized, using Elisra's command and control system together with Elbit System's electro-optic capabilities, and including Elisra's Foliage Penetration Radar.

### Specifications

|                        |   |
|------------------------|---|
| Target types           | Personnel, Vehicles                       |
| Target velocity        | 2 ~ 90 Km/Hr                              |
| Azimuth coverage       | 45 deg. per sector                        |
| Elevation coverage     | 20 deg.                                   |
| Power consumption      | 150 W per sector<br>300 W central PC      |
| Weight                 | 50 Kg per sector                          |
| Communications         | C <sup>2</sup> link over Ethernet from PC |
| False alarm rate (FAR) | low                                       |
| Antenna type           | Dipole panel, cell tower like             |



### Environmental Conditions

|  |                           |
|--|---------------------------|
| Temperature  | -20 ~ 50 deg. Celsius     |
| Humidity   | 0-100% RH, non-condensing |
| Altitude   | 0 - 10 Kft AMSL           |
| Wind   | 0 - 50 KN                 |
| Weather resistant<br>(rain, snow, ice, dust,<br>sand, salty spray) | Full compliance           |

