

# GROUND SECURITY & SURVEILLANCE RADAR SERIES

■ SFX-2105



**Safex**

Safex Aerospace Systems GmbH | [info@safex-sas.de](mailto:info@safex-sas.de) | [www.safex-sas.de](http://www.safex-sas.de)

# GROUND SECURITY & SURVEILLANCE RADAR SERIES

## ■ SFX-2105

### General

SAFEX, SFX-2105 is a family of tactical Ground Surveillance Radars (GSR), designed to provide 360° coverage for ground moving targets.

Featuring a high update rate of targets, the SFX-2105 delivers high probability of target detection and supports missions of military forces and para-military law enforcement units.

The SFX-2105 is a lightweight, all-weather, movement detection radar, designed to detect, alert and monitor intruders' movements in protected and selected zones of interest.

This solid state, continuously rotating Low Probability of Interception (LPI) dual-beam radar is rapidly deployed and features low power consumption.

The SFX-2105 radar can be locally or remotely controlled either as a stand-alone radar or integrated in a larger ground surveillance network.

### Features

- Simple installation and fast deployment
- Operates 24/7 in rough terrain and all weather conditions
- Lightweight, low power consumption
- Low Probability of Interception (LPI)
- High reliability – full solid-state design

### Applications

Military and Para-Military

- Border monitoring
- Protection of military camps, bases and sensitive sites
- Early warning on movements of hostile forces
- Support to border police at international passes: airports, harbors and ground passes

### Installation Options

- Fixed installation - on a tower, fence, building, pole or on the ground on a tripod
- Mobile installation - on a stationary vehicle

### Specifications

- Frequency: X Band
- Transmitted power: 1W Average
- Operating voltage: 18 - 32 VDC
- External communications: LAN
- MTBF: >10,000 hrs
- Power consumption: 90W, LR - 100 W
- Dimensions (mm): ~350X360X540
- Weight: 25 kg to 35 kg

### Radar Performance

Performance	SFX-2105	SFX-2105ER	SFX-2105LR
Detection Range			
Pedestrian	5000 m	8000 m	15000 m
Vehicle	10000 m	15000 m	25000 m
Min Detected Velocity	1 km/h	1 km/h	1 km/h
Range Resolution from	4 m	4 m	8 m
Azimuth Beam Width	10°	8°	5°
Range Accuracy	1 m	1 m	3 m
Azimuth Accuracy	0.5°	0.5°	0.3°
No of Tracked Targets	200	200	200
Track Update Rate	4 Sec (average)	5 Sec (average)	6 Sec (average)



SFX-2105 radar for surveillance vehicle



SFX-2105 surveillance suite

**Safex**

Safex Aerospace Systems GmbH  
Integrated Solutions & Sensors  
[www.safex-sas.de](http://www.safex-sas.de)  
E-mail: [info@safex-sas.de](mailto:info@safex-sas.de)