



Many companies and agencies struggle to competently protect vehicles, planes or other high value mobile assets to open spaces where there is no power source available.

This portable microwave enclosure is a mobile “virtual fence” which can be quickly deployed to provide effective temporary protection with a boundary of up to 1000m. It offers a comprehensive and adaptable solution for intruder detection in many operating environments and terrains.

Operation

- The virtual enclosure forms a protected perimeter with a total length of a protected boundary of up to 1000m
- The site perimeter is divided into 20 sectors each being 50 metres long
- The enclosure utilises a bistatic microwave detector to generate an electromagnetic field in the space between a transmitter and receiver (oblong ellipsoid of rotation)
- Local receiving & transmitting units are mounted on posts
- When an intruder crosses this volumetric detection zone, it registers a change in the field and generates an alarm over a radio channel
- Alarms are able to be transmitted up to a distance of 6000m

Key features

- No adjustment and alignment
- Insensitivity to Vibration
- No “dead zones” on detection
- Microstrip production technique of SHF units
- High “Liveliness” of the complex
- Possibility to retransmit an alarm
- No mutual interference of several kits operating in the neighbourhood

Detection zone specification

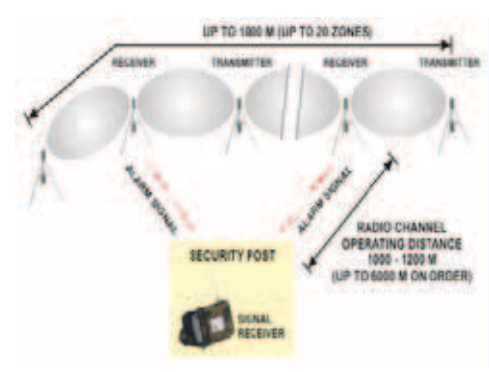
- Total length of detection zone : 1000m (20 sectors, 50m each)
- Sector detection zone : Length 5 – 50 m
- Maximum width of detection zone at maximum length : 8m
- Minimal height of a detection zone at the maximum length : 2.5 m

Requirements

- Supply voltage DC : Local equipment 6V battery
Radio equipment 6V battery or via a 230 VAC supply (mains)
- Minimum time of complex deployment : 2 days

Operational capability

- Radio channel range in open terrain : Up to 6000 metres
- Maximum time of complex operation from batteries at 20 C : 7 days
- Probability of intruder detection : 98% minimum



D2 Technology Ltd. delivers leading edge solutions in triggering, tracking, surveillance and relocation (personnel, vehicles, equipment) to Government, Police and Security organisations.

We combine scientific and technological know-how with first-hand knowledge of operational applications, in both domestic and challenging overseas theatres.

The D2 Technology team brings 40 years' of research & development experience for Dstl (UK MoD) and UK Special Forces to all our developments.

