

# HALO

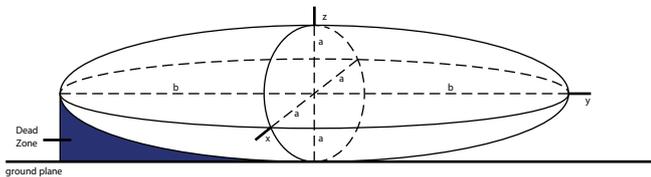
## Intrusion Detection



### TECHNICAL NOTE : DEADZONE ELIMINATION

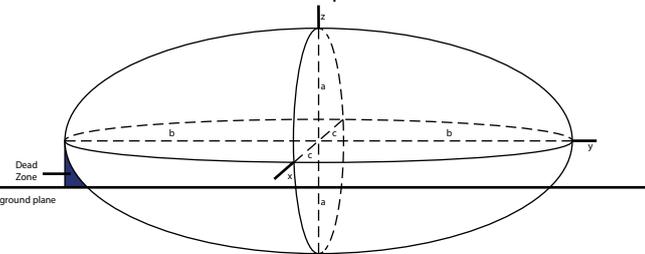
HALO from Sensurity is a new concept in Precision Microwave Perimeter Intruder Detection (PIDs). Utilizing a Planar antenna array, and incorporating deadzone detection this discreet unit offers total coverage and narrowest alarm detection zone available.

Traditional microwave transmitters using parabolic antenna have a symmetrically ellipsoidal beam pattern which has a circular crosssection.



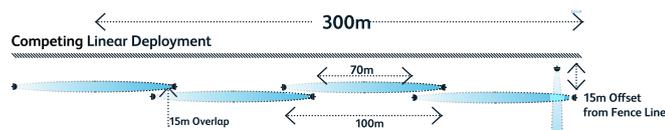
Beam Spread Generic Parabolic Antenna Microwave

The Sensurity systems use a planar antenna technology that allows HALO to deploy a non symmetrical beam pattern, which spreads the beam on the vertical axis while ensuring a minimal horizontal spread. HALO's microwave detection completely covers 100m x 3m x 6m, with a configurable active alarm zone that can be narrowed to a 2m horizontal spread.



Beam Spread Sensurity Planar Antenna Microwave

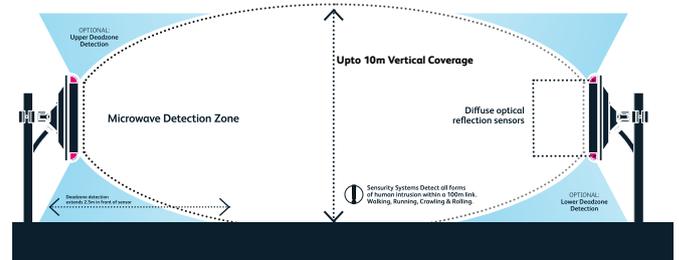
This still leaves a small area directly below and above HALO unit without microwave coverage. Competing microwave technologies based around parabolic antennas have a significantly larger deadzone to minimise though not eliminate this they are installed in an overlapping pattern. This requires extra microwave nodes and increased installation costs.



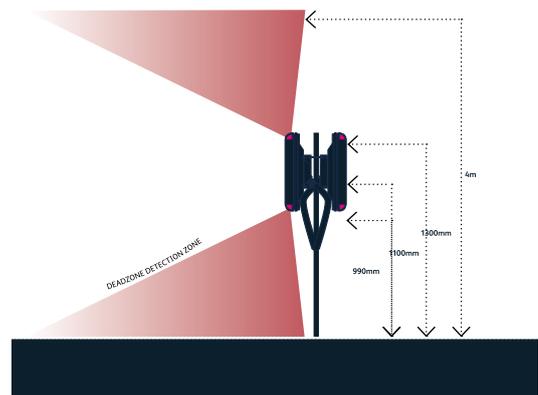
# INTELLIGENT SECURITY

[www.sensurity.com](http://www.sensurity.com)

HALO solves this inherent issue by offering an ACTIVE IR Deadzone sensor available for every node. The sensor combined with the planar antenna ensures complete detection over 100 linear meters from ground to 3m in height.

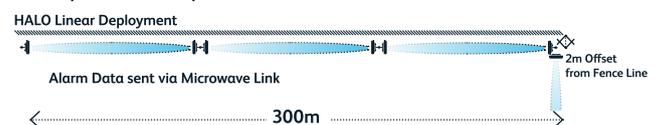


The Dead zone is integrated within the HALO unit and overlaps the Microwave signal by >1m and has a rear detection angle of 5 degrees ensuring total coverage between nodes. The deadzone option can be fitted for upper and/or lower detection



This forms a one-box total coverage solution, units can be installed back to back against each other on the same pole

This makes HALO a unique one-box solution for deployment where space is at a premium.



Deploying HALO reduces the number of managed devices required for a perimeter solution, while minimising installation costs and providing comprehensive protection.