

PASSIV-RADAR

SILENT GUARDIAN

Passive detection of moving objects



CAREAS OF APPLICATION

AIRPORTS

- MONITORING of the close area of operation
 - » Arrival and departure area
 - » Buildings & complexes
 - » Detection of drones

INFRASTRUCTURE MONITORING

- MONITORING of critis objects and terrain
 - » Industrial facilities
 - » Gouvernment areas
 - » Buildings & complexes
 - » Stadiums and major events



BORDER AND COASTAL SURVEILLANCE

- SECTION of flying, moving and swimming objects
- \$\frac{1}{2}\$ ILLUSTRATION of all flight movements in the lower airspace

mobile solution available



Purpose

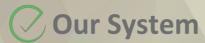
Passive early warning of movements in the dimensions air, land and sea | undetectable receiver

Are you interested and would you like to find out more about our product? Feel free to contact us or vist our website.

Parasol GmbH & Co. KG

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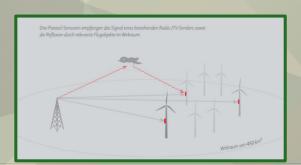
COMPONENTS

- » 3 sensor sites
- » 3 reference units



FUNCTION

The Parasol System consists of three sensor sites, each consisting of a sensor and a reference unit. The reference unit receives the direct signal from the transmitter (e.g. TV oder radio). The sensor unit receives the signal reflected from the flying or ground object. For an exact determination of the position, three sensor units are implemented forming a multistatic system. Moving objects create a Doppler effect, which allows the calculation of the target's speed and direction. The received signals transformed to the range-Doppler domain in order to enhance the effectivness and precision. Due to the data fusion a high accuracy and reliability is achieved.



Advantages

- (DVBT-1-2, DAB + or others)
- 5% Undetectable receiver
- \$\ Detection area up to 1000 km²
- \$\(\); 3D-detection of moving objects or objects on the ground from 0,5 m² radar reflection surface
- \$5 Low service costs
- *; Patented by Parasol
- \$\footnote{\chi}\sigma\ Installation outside the detection area

mobile solution available



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