

CTRL+SKY RADAR

Drone Detection

CTRL+SKY RADAR sensor plays an essential role in drone detection. It operates as FMCW (*Frequency-Modulated Continuous Wave*) in X-band. Furthermore, sophisticated radar signals processing is implemented that minimizes false alarm rates and differentiates between birds and drones.

FEATURES



Proprietary FMCW compact radar solution for detection, identification and tracking of drones



The most advanced MHT (Multiple Hypothesis Tracking) radar tracker on the market

MIMO

Multiple-Input-Multiple-Output (MIMO) technology for improved detection accuracy



Minimized false alarms due to effective discrimination of birds and drones



Intelligent cooling and heating of the radar box for operation under any weather conditions



All-in-one solution with built-in radar processor for easy integration



All electronic approach, no mechanical moving parts



Flexible mounting options



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| Detection Range | up to 2000 m, depending on drone size and output power |
| Beamwidth | 90° - 360° azimuth, 20° - 40° elevation (modular solution) |
| Range Resolution | 1-4 m (programmable) |
| Radar Tracker | Multiple Hypothesis Tracking (MHT) technology |
| Frequency | Default 10.5 - 10.6 GHz (optional 9,5-10,8 GHz) |
| Output RF power | 0.5 W or 2 W |
| Size (W x D x H) | 0.35 m x 0.1 m x 0.8 m |
| Weight | 12 kg |
| Power consumption | 100 W |
| Power supply | 24 V |
| Communication | Ethernet |
| Outdoor weather rating | IP 66 |