

CTRL+SKY 3D RADAR

Drone Detection

CTRL+SKY 3D RADAR provides a true target position in three dimensions (range, azimuth and elevation). This sensor plays an essential role in drone detection. It operates as FMCW (Frequency-Modulated Continuous Wave) in X-band and uses AESA and MIMO technology to accurately locate drones. Furthermore, sophisticated radar signals processing and classification 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 3000 m (for micro-class drones sized DJI Phantom IV) |
| Beamwidth | 90° azimuth, 45° elevation |
| Range Resolution | 1 - 5 m (programmable) |
| Radar Tracker | Multiple Hypothesis Tracking (MHT) technology |
| Frequency band | X-band |
| Output RF power | 8 W |
| Size (W x D x H) | 0.31 m x 0.15 m x 0.45 m |
| Weight | 12 kg |
| Power consumption | 150 W |
| Power supply | 24 V |
| Communication | Ethernet |
| Outdoor weather rating | IP 66 |