

90GHz-band FOD Detection Radar System for Runway Surveillance

The Linear Cell Radar System is for FOD (Foreign Object Debris) detection on the airport runway with controlling many millimeter-wave radars and high-sensitivity cameras from the control tower.

Main Features

- FOD detection by the millimeter-wave (90 GHz) radars (precision: ≤ 3 cm)
- Automatic photography of a clear FOD image by the high-sensitivity camera
- Wide area observation by the RAU (Remote Antenna Unit) connected with high-performance optical fiber radio technology (system coverage: $\geq 3,000$ m \times 60 m)
- Safety enhancement at taking-off and landing with high-speed sensing processing technology (refresh rate: ≤ 10 seconds/runway)
- Conformity to EuroCAE MASPS (Minimum Aviation System Performance Specification)
- Under demonstration experiment at the Kuala Lumpur International Airport

System Image

