

Asset Protection



**TELEDYNE
DEFENCE LIMITED**

A Teledyne Technologies Company

MIMO RADAR FOR COLLISION AVOIDANCE & LOW VISIBILITY LANDING



LOW VISIBILITY LANDING (LVL)

Next generation, innovative, MIMO-based radar solution to provide aircrew with a see-through capability when operating in 'brown-out' conditions during landing/take-off or ground manoeuvring. This essential aid develops a usable image of the surface and any obstructions beneath and around the helicopter.

COLLISION AVOIDANCE MIMO RADAR FOR UAVS

The Problem.

The absence of a suitable non-cooperative collision avoidance sensor for UAV and other autonomous platforms limits development and operational exploitation in both military and civil domains.

Any collision avoidance system must not impose any significant weight, drag or power burden on existing platforms.

The Solution.

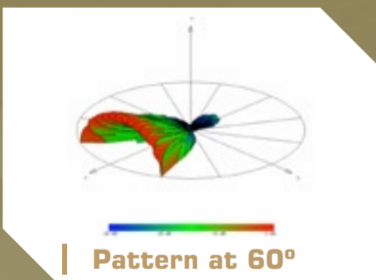
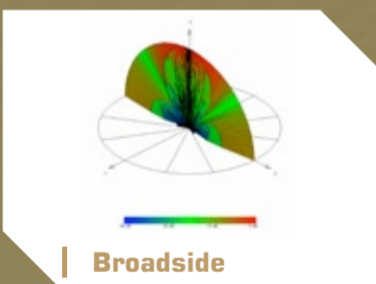
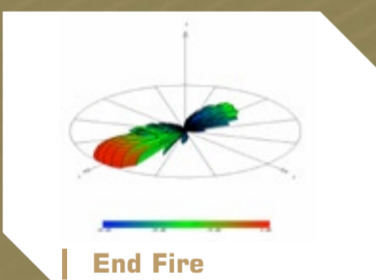
Teledyne Defence are developing an innovative collision avoidance radar with an antenna system particularly suited to UAVs. In the search mode, the radar forms conical beams providing optimum coverage while limiting the impact of ground clutter. In the track mode, the antenna array is reconfigured to determine the relative target position.

The Benefits.

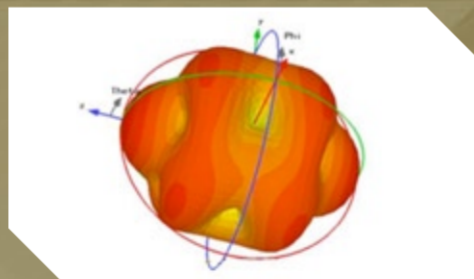
- Optimum collision avoidance coverage
- Limiting of radar clutter
- Detection and tracking of very slow moving objects
- Penetration of sand, dust & debris created in 'brownout' conditions
- Assisted landing of platforms in darkness



Beam Forming



Omnidirectional Radiation Pattern



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