

*To cover all eventualities [re drone detection]
there needs to be a suite of sensors and,
ultimately, they need to be optically identified."*



<https://rinicom.com/drone-detection/skypatriot/#row-brochure>

SkyPatriot is a family of industry-leading early warning optical drone detection systems. They use powerful AI video analytic software to rapidly and reliably detect, track, and classify multiple drones located kilometres away, in real-time. The SkyPatriot family includes:

- SkyPatriot Sector is our entry-level optical system; incorporating a high-resolution detection camera that operates in combination with a 360° PTZ camera. The detection camera continuously scans its preset field of view for multiple objects, directing the PTZ camera to zoom-in on candidate targets.
- SkyPatriot Sector180/Sector360 systems build on the base SkyPatriot Sector setup but extends it to monitor 180° or 360° of coverage using multiple integrated detection cameras.
- SkyPatriot Hunter works on the same principle of combining a detection camera with a scrutinising PTZ camera but is enhanced by exploiting detection inputs from radar or RF tracking systems to direct the sector detection camera.
- SkyPatriot InSight supplements these systems by introducing a powerful AI-derived classification module, which incorporates an extensive catalogue of UAV signatures that can be used to identify specific drone types.

SkyPatriot systems are now the #1 optical scanning drone detection scheme having gained widespread success in many proven drone defence deployments around the world with major customers including L3Harris, ST Electronics, Mistral, and Robin Radar Systems.

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Key SkyPatriot Features

- Passive high-definition detection cameras search for drone signatures 24/7
- Powerful pan-tilt-zoom camera tracks and classifies detected drones
- Extensive database of drone signatures and profiles for accurate identification and classification
- Automatic recording of video, images, and telemetry data evidence of all detected drones
- Can be deployed as a fixed installation, as part of a mobile setup, or combined with a larger installation
- Scalable design allows easy customisation and integration for covering multiple environments
- Easy to install, set up and initialise, ensuring equipment is quickly operational





Figure 1. Rinicom CEO Garik Markarian and the Lord Lieutenant of Lancashire, Lord Shuttleworth celebrates Rinicom's second Queen's Award.

Prof Garik Markarian

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Prof Garik Markarian: is Emeritus Professor at Lancaster University, UK and the CEO and Founder of Rinicom Ltd (www.rinicom.com). Prior to joining Lancaster University, he spent over ten years in wireless broadband industry, working in senior executive positions for the UK, USA and Canadian technology Companies. He is one of the founding members of the IEEE802.16 standard, where he chaired a number of working groups and actively contributed to the EUROCAE WG-82 (AeroMAX), EUROCAE WG-72 and WG-115 standards. Current research interests include Aviation Security, Secure Communication Systems and Artificial Intelligence for Security Applications. He has co-authored over 700 publications, including 42 patents and 5 text books (including "Aviation Security Engineering: A Holistic Approach" and "Counter-UAV Handbook" both with ARTECH House). **He is a Fellow of the National Academy of Sciences in Armenia** and for long time served as the Chair of the IET Professional

Panel in Communications. Under his management Rinicom grew up to become one of the world leading technology companies supplying its products to first responders and security agencies around the world. In recognition of these achievements, Rinicom was awarded Queens Awards for Excellence in Business in 2013 and 2018.