



- A pioneer and world leader in next-generation surveillance and flight tracking solutions with proven multilateration and ADS-B technologies.
- A half century of experience in surveillance.
- Over 100 installations for air traffic management and military customers.
- In 57 countries on 5 continents throughout Europe, the Middle East, Africa, South America, U.S.A. and Asia Pacific.

THIS IS ERA

OUR PRODUCTS

ERA equips military and civilian aviation industries with next-generation solutions which improve safety, enhance operations and increase tactical capabilities. ERA provides complete systems integration solutions for air traffic management and surveillance system redesigns and overhauls.



NEO by era - Next-gen multi-sensor surveillance system

As the world's airways and runways become congested, the risk of error increases. NEO by ERA uses proven multilateration and automatic dependent surveillance-broadcast (ADS-B) technologies to deliver cost effective high-performance surveillance solutions for airport surface movement, terminal area and wide area en route control applications.



VERA-NG by era - Passive ESM Tracking

VERA by ERA provides the next generation in Passive ESM (Electronic Support Measures) Tracking (PET) technology. VERA allows for "good neighbour" status while still being vigilant. It emits zero electromagnetic energy making it invisible to anti-radar missile systems. It sees without being seen. VERA can be easily transported in general purpose vehicles.



SQUID by era - Vehicle Tracking Unit

Ground vehicle incursion into critical safety areas is rising at all airports worldwide. SQUID by ERA minimizes the risk by using a fully standards compliant, vehicle-mounted ADS-B transmitter (squitter) that continually broadcasts a vehicle's location. Each vehicle is clearly and uniquely identified, providing an essential addition to any Advanced Surface Movement Guidance and Control System (A-SMGCS).



MASTERCARE by era - Portfolio of services

ERA's industry-leading products are backed by the services and benefits of the MasterCare programme. MasterCare is a complete portfolio of services and comprehensive range of assurance offerings which can be customised to the unique customer, deployment site and service level requirements.

OUR SOLUTIONS



Surface Multilateration

Surface Multilateration by NEO provides ground surveillance as well as surveillance for close vicinity of the airport. The NEO by ERA can be used as a multilateration cooperative mean of surveillance within Advanced Surface Movement Guidance and Control system (A-SMGCS) or as a stand alone multilateration system for ground surveillance. Surface multilateration system provides extremely position accuracy and identification of the aircraft equipped by Mode A/C/S as well as vehicles equipped by ADS-B beacon (SQUID by ERA).



Wide Area Multilateration

As the need for air traffic surveillance expands over areas not presently covered by conventional secondary radar, a number of ANSPs are taking advantage of the cost benefits of Wide Area Multilateration (WAM) versus new radar installations. Even in surveillance segments where conventional radars are installed, WAM is frequently used as a backup surveillance system. Multilateration takes advantage of its distributed architecture composed of simple, unmanned and low power sensors providing 3D target positioning without a single point of failure (SPF) as opposed to standard SSR.



Height Monitoring

To support increased traffic volumes, reduced vertical separation minima (RVSM) are being introduced globally, increasing demands on the accuracy of aircraft avionics reporting altitude. Height Monitoring Units are found beneath the Upper Air Route (UAR) to ensure that aircraft maintain the requested flight levels. The surveillance system NEO by ERA is able to precisely measure aircraft altitudes and provide accurate statistical data on barometric altitude performance.



Parallel Runway Monitoring

The pressure to increase airport capacity and throughput requires extreme accuracy and reliability of surveillance on approach to parallel runways to ensure that aircraft do not enter the high-risk zones between the arrival and departure corridors. The high accuracy and high update rates (1 second or less) delivered by ERA's surface multilateration solutions guarantee safety at even the busiest airports.



ADS-B

Unlike current surveillance techniques, which use ground-based radar, ADS-B equipped aircraft broadcast their GPS positions every seconds. ERA provides standalone ADS-B stations as well as a smart network of ADS-B stations with a single output. ADS-B is also available as an option to any of ERA's multilateration solutions.



Military Systems

Air defence and passive surveillance are critical elements for present-day military and security operations. ERA has created the ultimate, world-leading and advanced Passive ESM Tracker (PET) VERA. VERA-NG utilises MLAT techniques to locate and track targets by multilateration on various electronic emissions in a broadband range, including emissions from transponders, radars, jammers and TACAN/DME interrogators. The passive technology utilised by ERA allows for a virtually undetectable operation, as no signals are sent from the system. It provides long term ELINT information and has no need for frequency allocations.