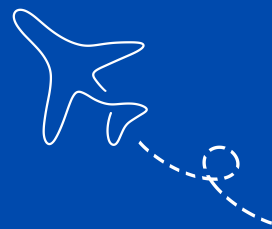


R-EMS



RION-Environmental Monitoring System

Comprehensive solution developed for the purpose of managing aircraft noise, linking noise monitoring terminals, airport operators, and surrounding community

Overview

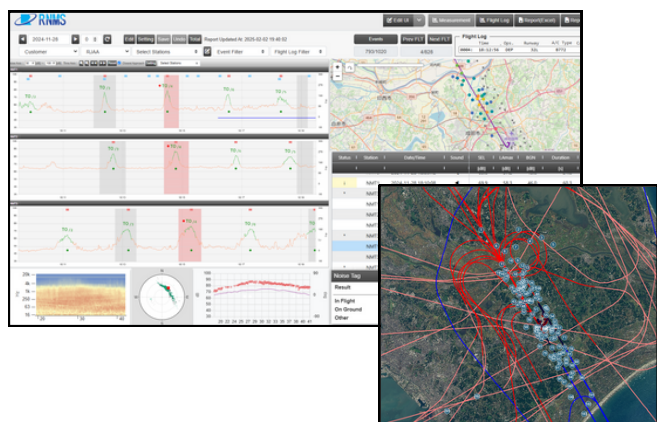
R-EMS is aircraft noise management solution for airport. Noise events from measurement terminals are uploaded and integrated via the network into a R-EMS cloud-based database along with flight track data, flight logs, and weather information.

The system automatically identifies which flights in the database produced which noise, and correlates it with flight logs and weather conditions.

For airport environment department

R-EMS strongly supports the validation of noise maps according to the noise management plan of airport. It automates the validation and organization of noise events, minimizing the effort required to create noise reports.

Accumulated flight track data makes it possible to track and manage compliance with flight routes.



Variety of flight tracking solutions

In addition to ADS-B signal reception, the unique PSSR technology can also track the trajectory of aircraft not equipped with ADS-B.

Sound arrival direction

Identify the source of noise by using multiple microphones and analyzing the direction of sound arrival.



Acoustic professional × AI

With AI trained specifically for aircraft noise, sound source labeling reduces data verification work. For special noise events that require attention, there are also extensive acoustic signal analysis functions.

Tool to communicate with residents

We provide a web-portal to publish a map that updates noise level and flight track in real time, and information on environmental measures implemented by the airport. It also functions as a two-way communication tool between residents and airport that receives/responds to complaints.

R-EMS supports airport to strengthen trust relationships with surrounding communities while minimizing those costs.



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<https://rion-svglobal.com/>