



Optically-connected Multilateration System (MLAT)

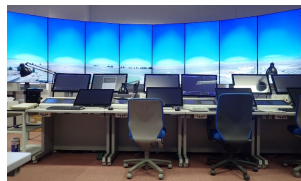
Japan Radio Co.,Ltd , Japan

About JRC

We were founded in 1915, and offer a number of solutions for aviation safety and development including Radio, Radar, ATC training simulator and Multilateration as one of the leading companies in the field of wireless.



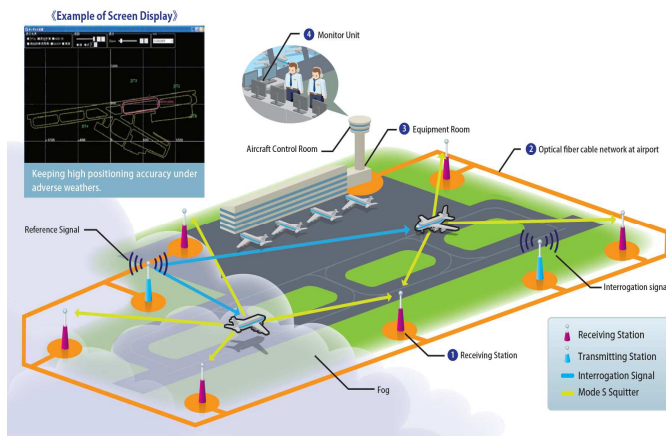
Radio



ATC training simulator

Exhibition: Optically-connected Multilateration System (MLAT)

JRC has developed in collaboration with Electronic Navigation Research Institute (ENRI) "an optically connected multilateration system", which is an improved version of the Multilateration System (hereafter MLAT), one of the radar systems used to survey the position of aircraft taxiing on the ground in airport premises.



Outline of Optically-connected Multilateration System

In the conventional MLAT, the positioning accuracy of aircraft and vehicles tends to deteriorate due to the influence of buildings in airport premises on radio wave propagation, and this counter

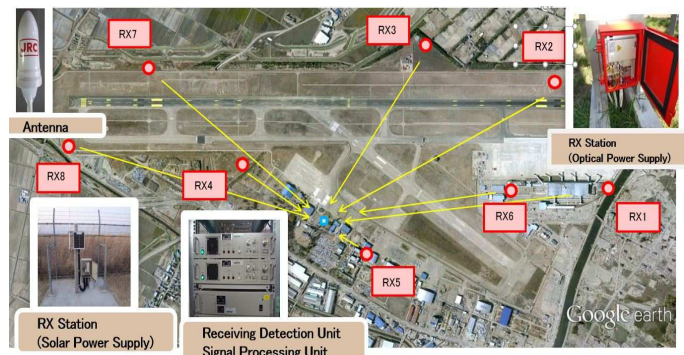
measure has been an issue.

JRC's newly developed optically connected MLAT realizes high-precision surveying of aircraft and vehicles by converting radio signals received outdoors into optical.

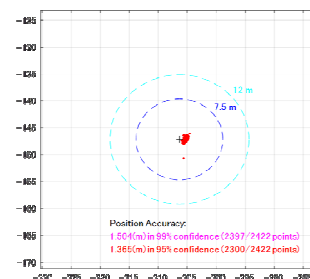
Conducting the Evaluation Test

Viet Nam Air Traffic Management Corporation (VATM) allowed us to implement the MLAT evaluation test in the Phu Quoc international airport at Phu Quoc Island in Southern Part of Vietnam.

As a result of evaluating the positioning accuracy of this system introduced at Phu Quoc Airport in Vietnam, it has been confirmed that the performance of this system greatly exceeded the international standard (ED-117A).



System configuration in the demonstration



The measured position accuracy on taxiway at some point.

Acknowledgments

We gratefully acknowledge the work of past and present members of ENRI.