

# Multilateration System

~ Direct transmission via optical fiber and centralized processing of RF signals ~  
 J-AERO supports the complicated traffic control services and safety at airport.



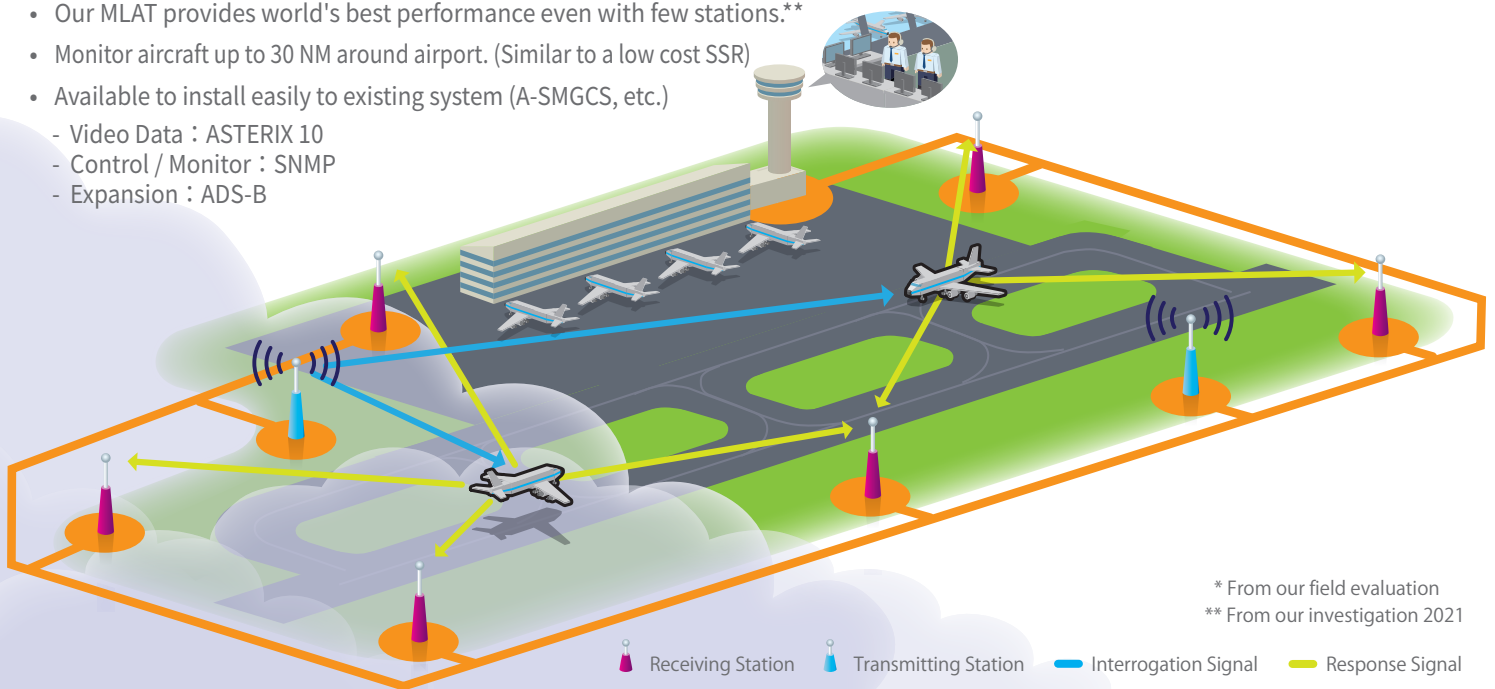
## World's Best Position Accuracy

*Multilateration system (J-AERO) is a secondary radar system that monitors the position of aircraft on the airport surface.*

- Safe and efficient air traffic control can be performed.
- Accurately grasp the position of the aircraft even in situations where visibility from the control tower is poor, such as at night or in bad weather.

### Features

- **World's Best Position Accuracy :**  
**High position accuracy (3m or less)** compare to world standard ED-117A (12m or less).\*
- Our MLAT provides world's best performance even with few stations.\*\*
- Monitor aircraft up to 30 NM around airport. (Similar to a low cost SSR)
- Available to install easily to existing system (A-SMGCS, etc.)
  - Video Data : ASTERIX 10
  - Control / Monitor : SNMP
  - Expansion : ADS-B

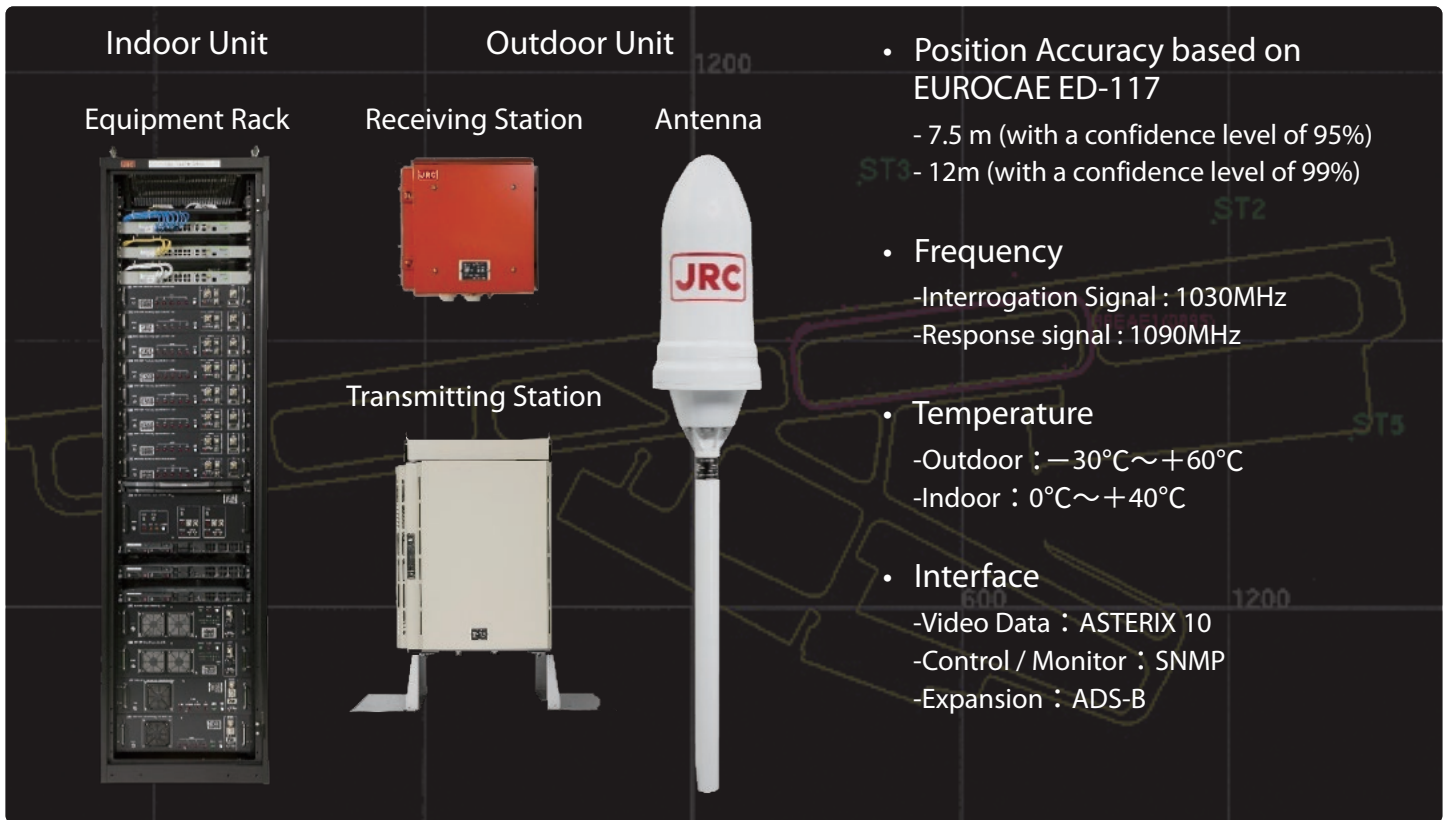


\* From our field evaluation  
 \*\* From our investigation 2021

Receiving Station  
 Transmitting Station  
 Interrogation Signal  
 Response Signal

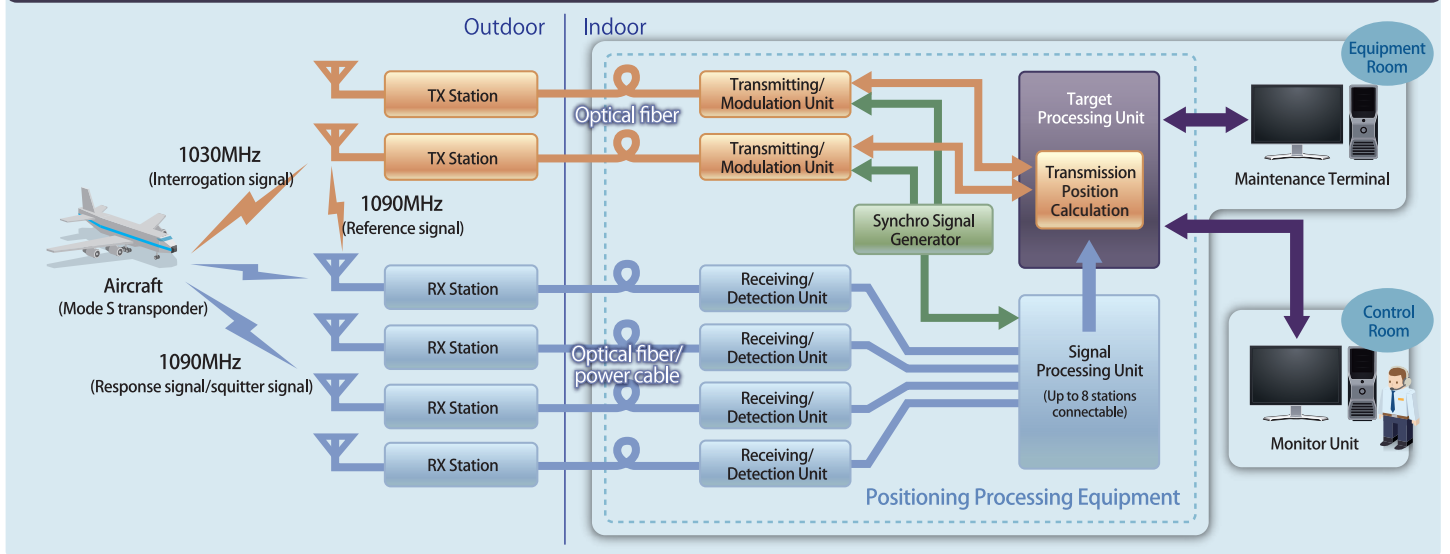
## Photographs of the appearance

## Specification



- Position Accuracy based on EUROCAE ED-117
  - 7.5 m (with a confidence level of 95%)
  - 12m (with a confidence level of 99%)
- Frequency
  - Interrogation Signal : 1030MHz
  - Response signal : 1090MHz
- Temperature
  - Outdoor :  $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$
  - Indoor :  $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Interface
  - Video Data : ASTERIX 10
  - Control / Monitor : SNMP
  - Expansion : ADS-B

## System Configuration (with 4 RF stations)



• Specifications may be subject to change without notice.

For further information, contact:



Since 1915

**Japan Radio Co., Ltd.**

URL <https://www.jrc.co.jp/eng/>

**Main Office:** NAKANO CENTRAL PARK EAST  
 10-1, Nakano 4-chome, Nakano-ku, Tokyo  
 164-8570, Japan  
 Telephone: +81-3-6832-0981  
 Facsimile : +81-3-6832-1842

**Overseas Branches :** Manila  
**Liaison Offices :** Hanoi, New York  
**Overseas Subsidiaries :** JRC Spectra Indonesia (Jakarta)  
 JRC do Brasil (Rio de Janeiro)

37ELS

ISO9001, ISO14001 Certified