

# IMS4 RVR

Runway Visual Range System

The IMS4 Runway Visual Range system performs the automated runway visual range assessment and reporting to the airports.



Forward scatter technology



ICAO compliant with CAT I - III



Standalone system or integrated within AWOS / AWSS



Multiple sensor interfaces



Real time data processing

## Field sensors

The typical set of IMS4 RVR field measurement system consists of forward scatterers, background luminance sensors as well as interfaces to runway lights systems. Multiple types of sensors and communication interfaces are supported.

The data processing software enables any standard or non-standard combination of sensor positions along the runways, hot backup of the sensor values and manual data entry. For each sensor type, the evaluation and visualization of the sensor status as well as remote maintenance is provided.



### IMS4 RVR server

Standard COTS Intel based server or a dual hot failover cluster, the IMS4 RVR server collects the visibility, background luminance and runway lights intensity data from the field measurement system, calculates the RVR, distributes the data to displays as well as 3<sup>rd</sup> party systems; it also provides operators with alerts related to the significant thresholds of the visibility and / or RVR. In case of the integration of the RVR system into AWOS, the RVR values are displayed on the local as well as remote AWOS screens, are imported into METAR / SPECI and local routine or special reports, may trigger AUTOSPECI or serve as a basis of the airport operation category assessment.

### Controller displays

Customizable displays report touchdown, midpoint and rollout RVR and / or MOR current values or trends in accordance both with the ICAO regulations as well as respective ATC authority requirements. The built-in aviation web server provides the local airport controllers as well as remote users with the powerful and efficient web interface.

### Integrated part of the Aviation Weather Decision Support System

IMS4 RVR system together with the visibility forecast model form an integral part of the Aviation Weather Decision Support System.



### Compliance with standards

- CAA Certified (Type approval, applicable standards)
- ICAO Doc 9328 for RVR Observing and Reporting Practices
- ICAO Annex 3 and 10 for Data Processing and Reporting Practices
- ICAO Annex 14 Aerodrome Design and Operations
- ICAO Doc 8896 for Aeronautical Meteorological Practices
- ICAO Doc 9157 Aerodrome Design Manual
- WMO No 306, Manual on codes
- ISO 9001: 2015 for quality assurance