



Airport Equipment
Tailored To Your Needs



IRVR

Runway Visual Range AGIVIS CAT III Forward Scatter System



Trusted by airports worldwide

Modular

design

Field

proven

Low

maintenance

Compact

rugged construction

AGI has designed and manufactured airport meteorological systems for over 20 years. Many of the major UK airports use the AGIVIS 2000 Transmissometer based Runway Visual Range (RVR) system.

As the demand for air traffic increases and regional airports expand their capacity, existing manual runway visibility methods can become a bottleneck. The AGIVIS CAT III FSM system is a cost effective way to automate this measurement.

Trusted worldwide

The Forward Scatter sensor has proved its measurement capability in many world wide independent tests and is field proven for well over 10 years.

The sensor design uses a 45 degree measurement angle with a horizontal alignment. Its design also ensures that the sample volume area is undisturbed, regardless of wind direction and precipitation conditions. A no dew window heater is fitted as standard with an optional hood heater to protect the sensor against weather extremes.

To ensure trouble free operation the sensor continuously monitors the viewing window compensating for contamination. The system indicates when window cleaning is required.

Present weather measurement is also available using back scatter sensor on the VPF 730.

The established field proven AGIVIS CAT III FSM processing system is used to process and display the visibility data.

A field site electronics unit (FSEU) supports both the forward scatter sensor and a background luminance monitor.

The Field Site Processor system is the hub of the visual range system. It takes the data from the runway lighting system, sensor data and background Luminance monitor and calculates an RVR value. RVR values from each of the deployed sensors are displayed on custom AGI multi purpose colour displays.

These configurable displays can also show other parameters such as runway direction, station identity and ILS status.

RELIABILITY AND MAINTENANCE

Self monitoring software routines in the visual range system continuously monitor system performance. Alerts are indicated on an operator console in an easily understood format. Reliability is one of the system design criteria and any system failures can be quickly rectified with minimum downtime.

AGIVIS CAT III FSM SYSTEM

Three subsystems make up the AGIVIS CAT III FSM System

- Forward Scatter sensor
- Field Site Electronics Unit (FSEU)
- Field Site Processor system

FEATURES & BENEFITS

- Forward scatter visibility sensor
- Rugged field proven sensor design
- Low maintenance high reliability system design

SPECIFICATIONS

| | |
|--------------------------|--|
| Visibility Measurement | 10m to 75km |
| Accuracy | ± 2% |
| Optical scattering angle | 45° |
| Optical monitoring | Window contamination detection and compensation. Optical path blockage detection. Light source stability measurement. |
| RVR measurement | Meeting CAP 670 and ICAO requirements |
| Operating temperature | -40 to +50 C |
| Humidity | 0 – 100% RH |



For more information or to enquire about our **bespoke design services** please get in touch:

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