

Runway Visual Range

AGVIS 2000 Transmissometer System



Features

- o AGI designed Transmissometer System
- o Self compensating visibility sensor
- o Distributed data processing
- o Proven high reliability design



Instrumented Runway Visual Range (AGIVIS) System 2000

Principle of Operation

In the AGIVIS system, Runway Visual Range is measured with white light source transmissometers with photopic sensor diodes, these accurately and realistically reproduce the eye response of the pilot viewing the runway lights. The optical transmission of the light path is measured at 'touch-down', 'mid-point' and 'stop-end'.

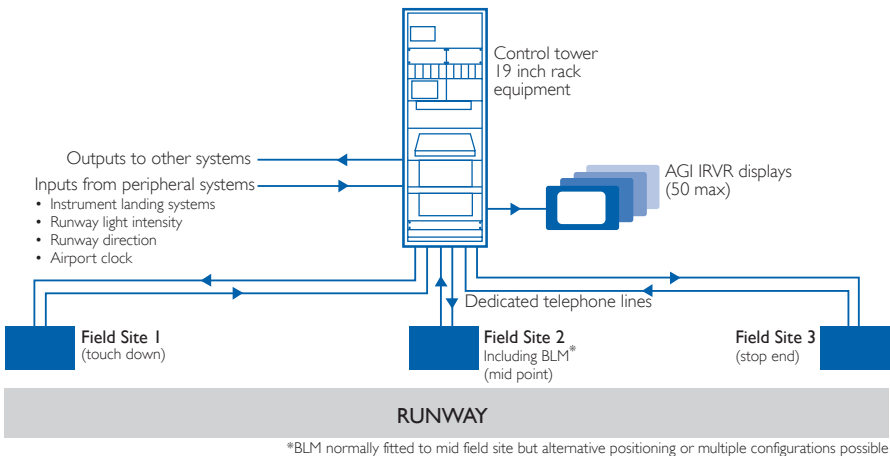
The RVR value for each field site is automatically calculated by the FSEU from the optical transmission and background values using established physical equations. The RVR is then transmitted via dedicated telephone lines (or fibre optics) to the AGIVIS control tower unit, where the data is disseminated, displayed and relayed to air traffic control, again automatically. The controllers receive the data via AGIVIS high-integrity IRVR displays.

The information is also entered onto a laptop computer, and page printer for archiving and legal record purposes. The laptop computer also provides the operator interface and the input or output of data.

Feature	Benefit
Exceeds ICAO Annex 3 & CAP 670 RVR measurement requirements	Assured accuracy from CAT I to CAT III runway lengths
Positive Pressure sensor housing	Protects the sensor from wind driven precipitation or dust
Built in Test Equipment Diagnostics	Remote or field site fault analysis to speed fault diagnosis and repair
Field Replaceable Sensor and electronics unit	Easy change for calibration and or repair
Integral Luminance Sensor	No separate alignment required



Optical Sensor Head



Control Tower Equipment

EMC	
Generic Emission Standard	BSEN 50081-1 Part
Generic Immunity Standard	BSEN 50082-2 Part 2
Safety	
Generic safety of Information Technology Equipment	BSEN 60950
Accuracy	±10m from 50 -400m ±25m from 400 – 800m ±10% above 800m



About AGI

AGI is backed by over 30 years of experience in the design, development, manufacture and installation of defence systems and provides full Integrated Logistic Support services, training, installation and documentation.

AGI is accredited to International Quality Standards ISO 9001/BS5750 Part 1 and Tick-IT software procedures.

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