

# RUNWAY VISUAL RANGE

- **MEETS OR EXCEEDS ICAO RECOMMENDATIONS, WMO REQUIREMENTS**
- **CONTINUES BELFORT'S REPUTATION FOR SUPERIOR VISIBILITY SENSORS**
- **SPECIFICALLY MANUFACTURED FOR RUNWAY VISUAL RANGE (RVR) APPLICATIONS**
- **LATEST FORWARD SCATTER SENSOR TECHNOLOGY**
- **COMPATIBLE WITH CAT I, II, OR III AIRPORTS**
- **CAN BE USED AS A STAND-ALONE RVR OR INTEGRATED WITH OUR DIGIWX AWOS**



Belfort Instrument Company presents its Runway Visual Range (RVR) system as a part of the company's commitment to flight information and safety.

The RVR system consists of our Model 6000 visibility sensor known worldwide as a standard in visibility measurement, the Belfort ambient light sensor (ALS), the Belfort runway light interface (RWIS), and the proprietary RVR software program. Belfort's RVR system measures the transparency of the atmosphere and calculates an extension coefficient taking in to affect the ambient light conditions. When the runway light intensity is integrated into the RVR algorithm, runway visual range values are determined.

The Belfort forward scatter visibility sensor provides accurate measurements in all weather conditions, including fog, smoke, heavy precipitation and snow. Adding the high performance of the Model 6000 visibility sensor with our proven RVR algorithms insure the most accurate runway visual range values are reported to the users.

The Model 6000 visibility sensors, used in the RVR system, have been calibrated through a specific chain of standards traceable to a reference "transmissiometer". Using this calibration standard ensures that the runway visual range measurements and calculations meet aviation quality standards.

THE STANDARD  
OF MEASUREMENT

**BELFORT** INSTRUMENT

# SPECIFICATIONS

## Performance

Measurement range (MOR)

Accuracy

Output Intervals

Averaging Intervals

Measurement

Units

Baud Rate

## Principle of Operation

Visibility sensor

Light source

Scatter Angle

Communications

## Ambient Light Sensor

Field of view

Range

## Runway Light Interface

Hardware

Edge Light

Centerline Lights

Control

## RVR

Output Intervals

Averaging Intervals

Trend

Algorithms

Daytime

Nighttime

Reporting Range<sup>1</sup>

Meters

Feet

## Environmental

Operating

Approval

6m to 80km (20 ft to 50 miles)

+/- 10% or 3m (10 feet)

10 Sec or 1, 5, 10 minutes

3, 5, or 10 minutes

Meteorological Optical Range (MOR)

or Extinction coefficient

kilometers or miles

Variable

Forward Scatter

Infrared LED

42°

RS232, RS485, 300-38, 400 Baud

6°

2 to 40,000 candelas/m<sup>2</sup>

RS232 Relay

CAT I, CAT II, and CAT IIIa installations

CAT IIIb installations

RVR Software Control

10 -120 seconds

1, 2, and 10 minutes

1, 2, and 10 minutes

Koschmieder's Law

Allard's Law

0-2000

0-6000

-40 C to + 55 C (-40° to +130°F)

CE Approved

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<sup>1</sup> Output per FAA FMH-1 and ICAO Annex 3



## For Further Information, Contact:

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