

Press Release

Instrument Systems GmbH at electronica 2002

## **Display Measurement to the Point**

*Munich, 12<sup>th</sup> November 2002* – Instrument Systems GmbH is the technology and market leader for LED and display measuring systems based on spectroradiometry. The company developed the DTS 500 Display Test System for complete optical display characterization. The system employs a telescope probe for launching radiation into an array or scanning spectrometer along a fiber-optic cable. This enables DTS analyzers from Instrument Systems to accurately determine luminance, radiance and colorimetric values of displays and panel graphics. A high-resolution lens system offers a minimum measuring spot size of 0.15 mm.

The modular concept of DTS 500 motorized positioner facilitates a range of different test setups. The XYZ positioner, for example, has been designed as a standalone system that is specially tailored to the requirements of the automotive and aerospace industry. Illuminated or backlit displays and control elements placed on a sample stage can be scanned by user-defined measuring sequences. Once the XY starting coordinates and increments have been specified, the entire surface of a sample may be scanned.

A 2-axis goniometer transforms the XYZ positioner into a complete 5-axis Display Test System for test scenarios where spatial luminance and radiance distribution is significant, i.e. analysis of measuring points from different viewing angles. The goniometer provides a support system for the sample and rotates it about the horizontal and vertical axes as required. The system automatically compensates for shifts in the measuring measuring spot resulting from rotation of the goniometer.

The DTS 500 from Instrument Systems and individual components are available in various sizes. The XYZ positioner is dimensioned for travel ranges up to 560x480x460 mm. The large version of the 2-axis goniometer can accommodate displays measuring up to 550x440 mm (WxH) and a maximum weight of 25 kg.

### ***Company Profile of Instrument Systems GmbH***

*Instrument Systems GmbH was founded in 1986. The company develops and manufactures precision instruments and systems for optical metrology. These include high-resolution array and scanning spectrometers, polarization analyzers, and imaging photometers and colorimeters. Instrument Systems provides support for a global customer base from its head office in Munich, subsidiaries in Canada and France and a network of representatives. The focus on LED and display metrology helped Instrument Systems to become the leading supplier in these areas.*