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### Guided Wave Introduces New Dual-Beam Process Photometer

RANCHO CORDOVA, CA --- June 9, 2011, Guided Wave Inc., a leading manufacturer of online process analyzers, recently released ClearView db® the first commercially available true dual-beam photometric process analyzer. Incorporating the dual-beam technology from their full spectrum analyzers, Guided Wave is able to offer an inexpensive online analyzer that is simple to operate and easy to maintain while capable of delivering surprisingly sophisticated results.

Because of their simplicity, photometers are more economical than high performance full spectrum analyzers. However, by adding the dual-beam feature to the ClearView db® the anticipated performance drop in comparison to scanning spectrometers is lessened. The dual-beam approach improves the long term stability and performance. Specifically, the impact of lamp aging is minimized, thereby sustaining superior performance even with changes in lamp intensity and color temperature. In addition, the detector noise is compensated for, dependent of the measured sample, thus more of the signal represents the actual sample absorbance.

"Historically the greatest problem with photometric analyzers has been the issue of drift," states Dr. Terry Todd, Guided Wave's Corporate Fellow. "Drift occurs when a measured value slowly moves away from the true value. The ClearView db® addresses this problem in the optical train", continues Dr. Todd. "In single beam photometers, the only way to correct drift is for the user to go to the unit and reset it. This could be done by either entering a numerical offset to correct the drift or physically removing the probe, cleaning it and resetting to zero or the reference value." With the new ClearView db® the dynamic optics enable drift monitoring and automatic drift compensation on each and every scan.

The ClearView db® is ideal for making continuous chemical composition or color measurements in stable process streams. The simple design of the ClearView db® photometer may be configured with one or two channels and has no moving optical components. It has a wide operating range spanning the Visible, NIR and extended NIR regions with low noise and extremely fast response times. An optional turbidity port is also available. The ClearView db® may be configured with up to 6 analytical wavelengths over a wide spectral range of operation (from 400 – 2150 nm). In addition to the general purpose unit there are two other enclosure options available. The ClearView db® enclosures include the Z-purged unit for Class 1 Division II areas or the Explosion Proof unit for Class 1, Division I areas (soon to be ATEX approved for Europe).

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#### About Guided Wave Incorporated

Guided Wave Inc. pioneered remote process analysis using optical fiber, and is a global leader in online fiber optic analyzers. The company has an installed base of over 500 instruments, operating in more than 50 countries on 6 continents, for continuous process monitoring of refinery, chemical, polymer and pharmaceutical applications. The staff includes engineers, chemometricians, chemists and physicists with extensive experience in feasibility assessment and system development for customers worldwide. Additional information about Guided Wave is available on the web at [www.Guided-Wave.com](http://www.Guided-Wave.com).