



## SA Photonics develops the Millimeter Wave Measurement System (MWMS)

Los Gatos, CA – [SA Photonics](#) has developed the [Millimeter Wave Measurement System \(MWMS\)](#), a high power millimeter wave measurement and calibration system now available for sale. MWMS records millimeter wave power densities in frequencies ranging from 40 GHz to 110 GHz with an accuracy of  $\pm 0.5\text{dB}$ .

MWMS measures millimeter wave emissions directly from their source, giving operators accurate and timely information about power and frequency. MWMS has applicability to 95 GHz active denial systems. “As the use of active denial systems for non-lethal applications grows, defense and homeland security agencies will need MWMS to effectively calibrate these systems and ensure their safe use,” says Jim Coward, CEO of SA Photonics.

MWMS is a next generation system consisting of a photonic probe and a sophisticated processing unit joined by up to 5 kilometers of fiber optic cable. The photonic probe relays millimeter wave measurements to the remote processing unit for characterization. The probe, with a minimal  $1\text{ cm}^2$  metallic aperture that has little to no effect on field measurements, can withstand extremely high millimeter wave power levels in excess of  $100\text{ W/cm}^2$ .

MWMS was successfully tested at Brooks City-Base in San Antonio, Texas on 28 January 2011.

### **About:**

Founded in 2002, SA Photonics is a pioneer in the development and deployment of innovative photonics solutions for commercial and government applications. SA Photonics’ expertise includes optical communications, ruggedized photonics hardware, opto-mechanical design, and complex analog and digital engineering for space, marine, avionic and ground applications. To learn more, please visit [www.saphotonics.com](http://www.saphotonics.com).

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