

## **TiaLinx, Inc. Announces Launch of the Viper60-A, An Ultra Wideband Concealed Weapon Detector Operating in the V-band**

Newport Beach, CA – April 21, 2011-TiaLinx, Inc., a developer of remotely controlled miniaturized object detection radars, today announced the launch of the Viper60-A. The ultra fine radio frequency beam is capable of detecting very small objects concealed under clothing.

The lightweight sensor system with polarized arrays provides an ultra-wideband (UWB) fine beam that can detect a variety of objects concealed by common clothing. Analogous to X-ray tomography, but using radio frequency waves that are safe, it can provide images at various depths from objects that can be identified as possible weapons. The system is ideal for rapid screening of individuals in a queue at a standoff. TiaLinx's real-time V-band UWB RF imaging development was sponsored by multiple SBIR Phase IIs and CPP awards from the Army's PEO AMMO PM-CCS, DARPA, ONR, and AFRL.

Through a software controlled interface which is integrated into a laptop and deployed remotely, the Viper60-A can be further up-scaled to address rapid screening of individuals at a fraction of the cost of current X-ray scanners.

The V-band RF Scanner transmits wideband signals that are highly directional and are reflected from the body while it penetrates the clothing. In the receiver, polarization sensitive signal detection circuits are employed to capture the reflections from targets. Amplitude, phase and delay information are then processed in an integrated digital signal processor.

"Viper60-A's introduction is another breakthrough in miniaturization of advanced UWB RF sensors pioneered by TiaLinx within the past four years. A large number of TiaLinx's patents have been used to develop the V-band RF Imager. The innovations in RF beamforming and signal distribution, use of miniaturized polarized arrays, advanced digital signal processing and unique industrial designs have enabled delivery of the Viper60-A as a core strategic technology. Further products evolution and extended applications of this technology for low-cost advanced screening will be the strategic focus of TiaLinx." commented Dr. Fred Mohamadi, Founder and CEO of TiaLinx. "TiaLinx is constantly miniaturizing and upscaling its UWB RF imaging core competence to enable standoff screening of a premise or individual for enhanced situational awareness."

About TiaLinx, Inc.

TiaLinx, Inc. is a privately held company that develops advanced electronic modules with very small form factor, highly integrated functionality and advanced performance for wide range of military and commercial applications. Utilizing its 41 granted patents and many more pending patent applications, specifically related to the on-chip and wafer-scale beamforming and phased arrays, and high-power miniaturized V-band power amplifiers and transmitters, the Company is uniquely positioned to supply robust RF Imaging devices economically by enabling revolutionary advancements in semiconductor

and sub-system designs. Since 2006, TiaLinx has received 7 Phase II and CPP awards from various government agencies.

TiaLinx was ranked as one of the top 3 companies performing advanced research projects sponsored by the Defense Advanced Research Project Agency (DARPA) during the DARPA Tech 2005.

The Company was selected as recipient of U.S. Army's Commercial Pilot Program award in 2009. Twenty five companies were selected out of the 487 recipients of the phase II awards. Within the top twenty five companies selected, TiaLinx was the only recipient with the advanced radio frequency imaging technology for sense-through-the-wall applications.

TiaLinx was also the recipient of the 2010 Defense News Technology and Innovation Award for its Eagle5-P product selected by a panel of experts who recognized recent advances in defense technologies by U.S. companies and defense agencies. In all, the panel considered more than 80 nominations of products that came to market last year.

On December 2010, VME and Critical Systems recognized the high-power V-band transmitter and receiver of TiaLinx as Editor's Product of Choice.

Live performances of TiaLinx's products have been captured by Microwave Journal, History Channel, and Reuters.

For further information, please visit the Company's website at [www.TiaLinx.com](http://www.TiaLinx.com).

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