

## PRESS RELEASE

### **MTECH further enhances technology in its class leading ceilometer.**

**Melbourne, Australia – June 22nd, 2009** – MTECH has released details of its enhanced performance Ceilometer the 8200-CHS codenamed “ALTO”. This set of technology enhancements results from consultation with scientists working in the area of planetary boundary layer research in Australia and the USA. The enhancements include the upgrade of the existing data converter with a very fast analogue to digital converter with 16 bit resolution, normally running at 49.1 MSPS, giving an inherent resolution of 10 ft. The dynamic range of the converter is further increased using over-sampling techniques.

Further, the digital processing engine uses a full 36-bit processing pipeline within a dedicated FPGA as a significant improvement over FIFO technology. High speed dynamic noise reduction inside the FPGA enables laser firing rates up to 12 kHz to be achieved, and thus enabling accumulation and averaging of a large number of shots necessary for PBL studies. In addition the “ALTO” has a thermoelectric cooler to maintain the laser under close temperature control as standard. This enables the system noise to be further reduced by use of a very narrow band interference filter. The microprocessor technology is a 48MIPS 32 bit processor which is fully field-configurable and programmable.

This set of enhancements allows detection of clouds at even higher altitudes and it also enables class leading resolution of boundary layer returns in the near field when aerosol scattering is minimal.

If you are interested further information please contact:

#### **MTECH Sales Department**

Phone: +613 9588 2829

Email: [sales@mtechsystems.com](mailto:sales@mtechsystems.com)

Website: [www.mtechsystems.com](http://www.mtechsystems.com)

#### About MTECH Systems Pty Ltd...

Since its formation in 1976 MTECH Systems has become a major supplier of expert weather systems for Air Traffic Control with an installed base of over 200 International, Military and Domestic Airports throughout the world. Through these 27 years of operation MTECH Systems' has developed a reputation for the ruggedness and reliability of its sensors and the quality and ease of use of its systems and software. Our flagship product is the MITAS AWOS and Tower Automation System. MTECH Systems products reliably deliver meteorological data to CNS / ATM professionals... whatever the weather.