

# HIGH PERFORMANCE RADIOMETRIC IR SYSTEM

# TVS-8500



**CMC Electronics Cincinnati**

# Solutions for R&D, Process Control, and Testing

# TVS-8500

## HIGH IMAGE FIDELITY

0.020 Degrees Sensitivity with High Quantum Efficiency, Patented InSb FPA

## Digital Dynamic Image Enhancement

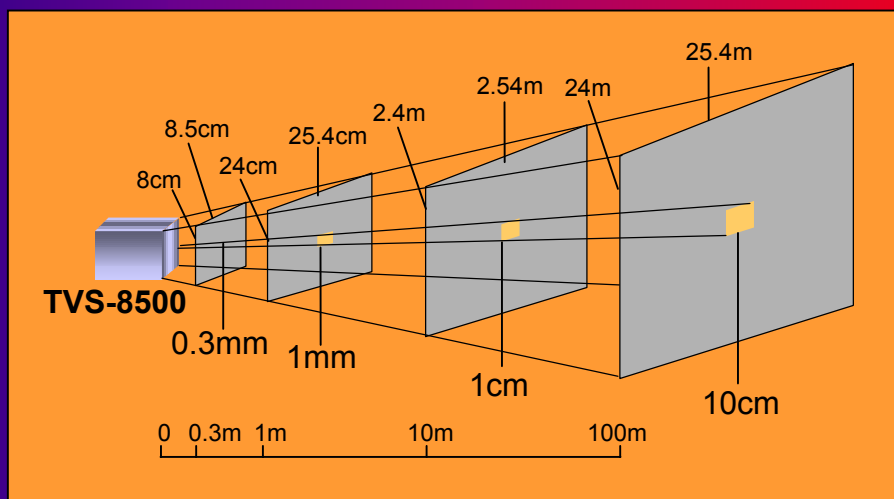
14 Bit Capability in Ranges from  $-40^{\circ}\text{C}$  to  $900^{\circ}\text{C}$  ( $2000^{\circ}\text{C}$  Option)

## Integrated Real Time Recorder

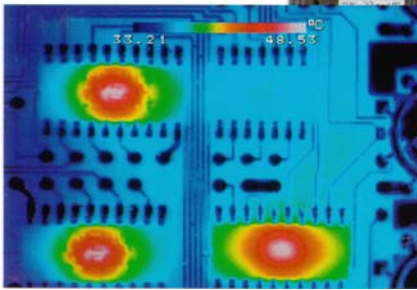
Acquires Data at User Selectable Time or Frame Intervals Up to Full Real Time Frame Rate of 120 f/sec.

## IEEE 1394 "Firewire", RS 232 & External Interface/Trigger

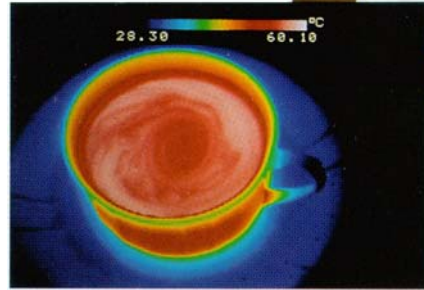
Data Output to IEEE 1394 "Fire Wire" Interface for Extended Data Storage/Analysis; RS 232 Interface Extends PC Remote Control; External Trigger for Synchronous Events Communication, and Event Initiation.



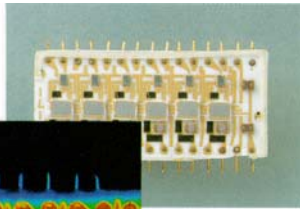
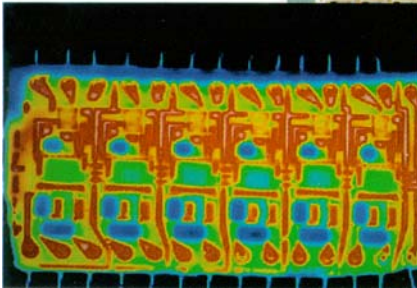
## Circuit Design and Testing



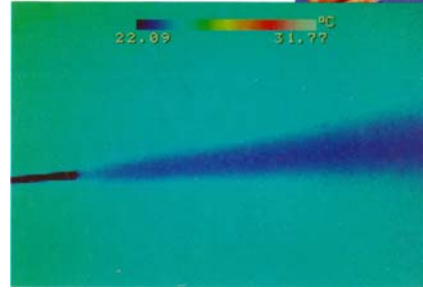
## Detection of Minute Thermal Changes



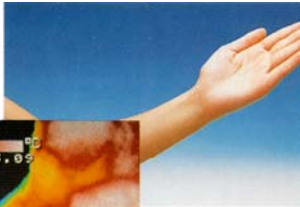
## Microcircuit Analysis



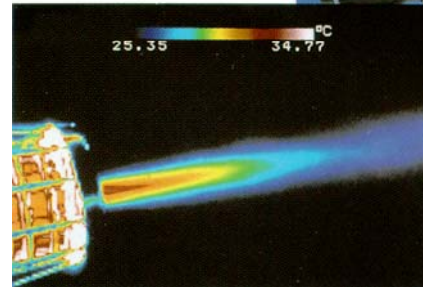
## Gas Detection



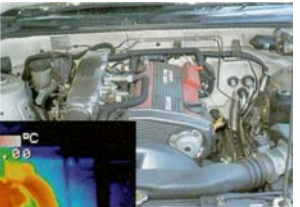
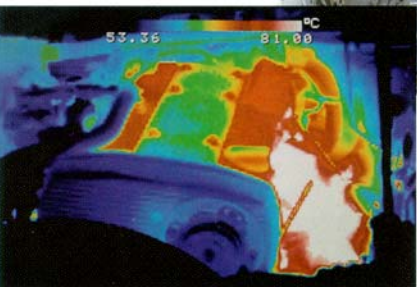
## Arterial Restriction Research



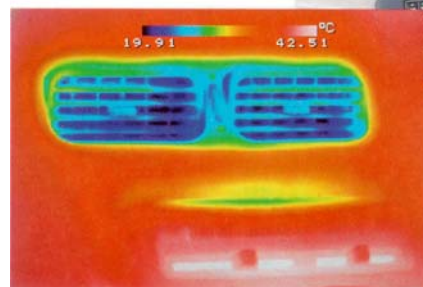
## Ignition Process Development



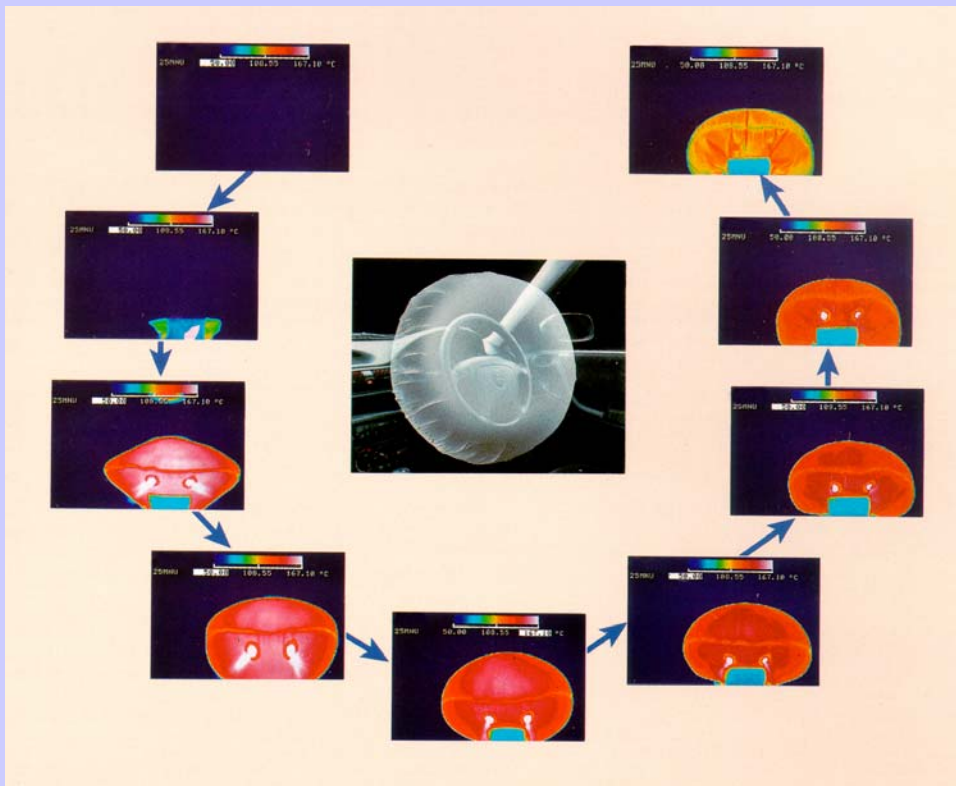
## Engine Design and Development



## HVAC Control Analysis







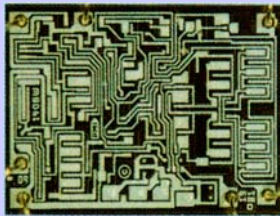
## Integrated Real-Time Recorder Acquires Fast Event Data

### Microscope Set (option)

Microscope Lens optically magnifies small objects such as integrated circuit to make non-contact temperature distribution measurements with 10µm or 100µm of spatial resolution.

IC Chip

Spatial resolution: 10µm  
FOV: 2.56mm x 2.36mm

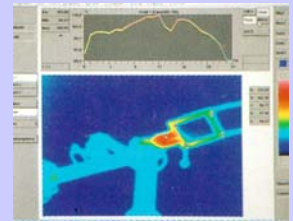
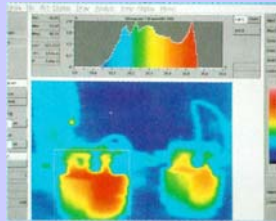


### Analysis Software (option)

Software performs various post analysis functions such as histogram, profile, trending, isotherm, subtraction, etc.

Histogram

Profile



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