

# ICI | ITMS - Industrial Thermal Management System



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# ICI | ITMS - Industrial Thermal Management System

The Industrial Thermal Management System is a stainless steel enclosure made to monitor Gasification Reactors for "Hot Spots". Since its inception, this system has additionally been utilized to monitor, in real time, electrical connections, critical equipment, flares and their pilots, as well as tank levels. This has provided many industrial systems with the unique opportunity to automate responses through real time monitoring.

## Features

- Stainless Steel Enclosure
- Hot/Cold Spot Tracker
- Various Color Palettes
- Ethernet (RJ 45)
- Automate Responses
- Real-time Monitoring

## Specifications

- **Detector Array:** UFPA
- **Pixel Resolution:** 640x480
- **Spectral Band:** 8µm-14µm
- **NETD Sensitivity:** <0.08°C at 30°C
- **Frame Rate:** 50/60Hz P-Series  
9Hz S-Series
- **Dynamic Range:** 14 bit
- **Temp Range:** -20°C to 120°C  
-20°C to 650°C (optional)
- **Operation Range:** -15°C to 50°C
- **Storage Range:** -45°C - to 65°C
- **Accuracy:** +/- 2°C
- **Pixel Operability:** >99%
- **Dimensions:**  
<183mmx78mmx68mm  
(HxWxD +/- .5mm)
- **Weight:** <500 Grams without lens
- **Video Output:** AVI
- **Battery:** 12 VDC : 5W
- Color Alarm (Isotherm)
- Ethernet (RJ 45)

## Lens & Software Options

- Outdoor Housing w/Germanium Window  
(Encapsulation: IP 66) (optional)
- 650°C High Temp. Mode (optional)
- Motorized (optional)
- Athermalized (optional)
- Optic Zoom lens (optional)

## Applications

- Insulation Inspections
- Scientific Research
- Predictive Maintenance
- Reliability Engineering
- Forest Fire Monitoring
- Medical Imaging
- Robotics
- HVAC
- Security
- Electrical

