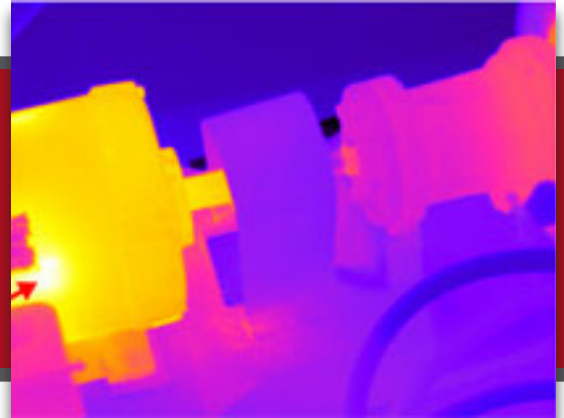




# Mechanical Inspections

Infrared Inspections for Commercial/Industrial Facilities



## Identify problems before failure occurs

Even under normal operating conditions, all machinery generates heat. However, excessive heat can be generated from friction caused by inadequate lubrication, misuse, and normal wear. Because temperature is one of the first observable parameters to indicate the health of a component,

Infrared Thermography is an excellent choice for monitoring the condition of your mechanical equipment. It can be used to identify the amount of thermal energy (heat) being generated by a component when operating under normal load. This highly-effective, non-contact, non-destructive testing method, can be used to monitor the condition of:

- bearings
- gears
- shafts
- couplings
- pulleys
- conveyers
- vacuum pumps
- and more...

## Benefits of using infrared for condition monitoring and predictive maintenance

The primary benefits of using infrared for condition monitoring and predictive maintenance include:

- Increase safety
- Increase system reliability
- Reduce costly unscheduled downtime or outages
- Reduce repair costs, particularly prior to failure
- Reduce maintenance costs
- Improve production rates and quality

## IPSI Approach

We utilize fully-radiometric infrared cameras and gather inspection data in the field using Pocket PC's equipped with Infrared PdM inspection management system.

Once a normal thermal signature (baseline) is obtained and understood, any deviation from the normal thermal signature will then provide evidence that a potential problem is developing. When an anomaly is identified, we record the image and gather details on the temperature and location of the potential fault. This allows us to provide customized reports showing current problems as well as trends over time toward equipment failure.

## Contact

**Infrared Predictive Surveys, Inc.**  
2758 Lynn Street  
Frederick, Maryland 21704

Phone: 301-831-1978  
Toll Free: 800-869-3720  
Fax: 301-874-2295  
Email: [info@infraredpsi.com](mailto:info@infraredpsi.com)

## Additional Locations

**Infrared Predictive Surveys, Inc.**  
Pittsfield, Massachusetts  
Call: 1-800-869-3720  
Email: [info@infraredpsi.com](mailto:info@infraredpsi.com)

**Infrared Predictive Surveys, Inc.**  
Seattle, Washington  
Call: 1-800-869-3720  
Email: [info@infraredpsi.com](mailto:info@infraredpsi.com)