

FIXED IMAGING SYSTEMS

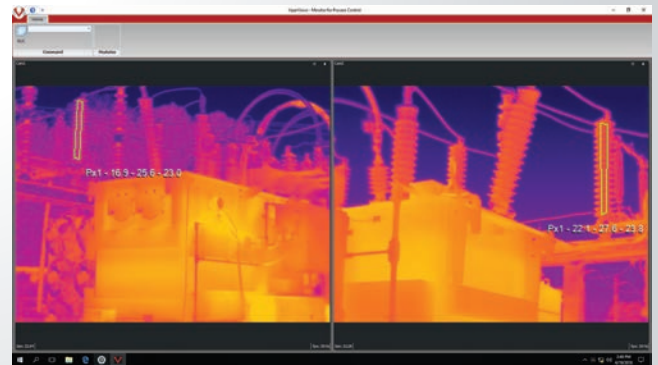


Viper Imaging provides integration of complete monitoring solution that enable customers to increase production, improve reliability and create a safer workplace.

VIPER IMAGING

VIPERVISION SYSTEM

Most industrial manufacturing processes involve heat. Utilizing thermal imaging technology, Viper's systems are capable of continuously monitoring temperature - helping our customers to avoid a broad range of potential problems. These problems can be caused by situations such as rapid temperature change to process, overheating of critical components, and product non-uniformity. ViperVision software allows for real-time monitoring, data acquisition, and imaging post-analysis of the industrial processes. This powerful software suite is designed by Viper to connect to all FLIR A-series thermal imaging cameras and can be integrated with most industrial platforms.

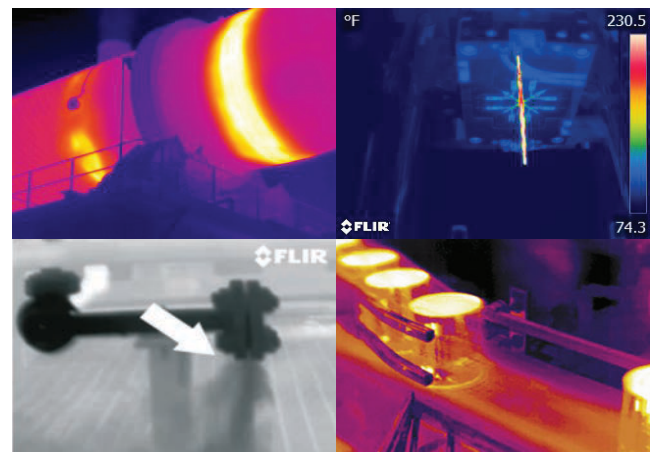
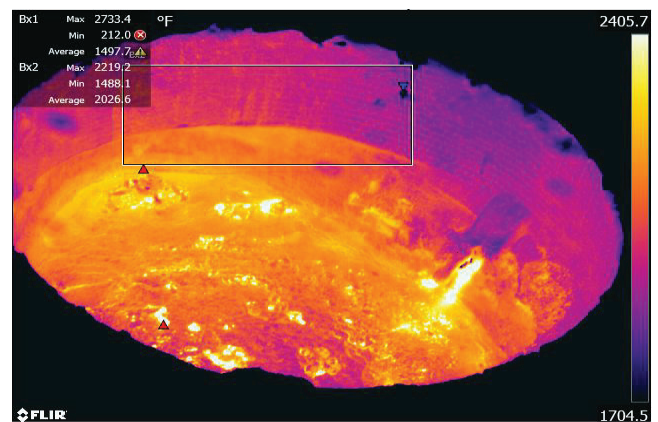


Screen shot from ViperVision in our Quick Deploy Substation Monitoring Kit™ - showing specific regions of interest

VIPER'S THERMAL IMAGING CAMERAS

ViperVision software provides connectivity with all FLIR A-series thermal imaging cameras. These powerful cameras measure temperature from -20°C to 2000°C and are available in various resolutions, sizes and wavelength configurations. FLIR A-series cameras provide superior image quality and easily integrate into the system. Within the A-series, multiple types of cameras are available allowing further customization based on the application: multi-sensor options, optical gas imaging, fixed network thermal cameras, and more.

Viper's furnace and boiler cameras systems are specially designed for high temperature monitoring and integrate with ViperVision software as well. These systems utilize a proprietary combination of electronics, optics, and protection to constantly monitor and produce high-quality video and temperature data of your process.



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INDUSTRIAL CAMERA ENCLOSURES

VIPERVENOM

Available in both a compact and standard size, our ViperVenom industrial enclosure is specifically designed for all FLIR A-series cameras and is manufactured for simplicity and durability. It offers effective protection against basic environmental contaminants such as dust, as well as extremes like harsh water jets and high ambient temperatures. It has been independently tested and meets compliance standards for IP65 rating.

VIPERVENOM SS

The stainless steel housing allows Viper's systems to be installed in environments with highly corrosive external agents, high temperature and hazardous area locations - such as in marine, industrial or chemical environments.

VIPERVENOM EX

The ViperVenom EX enclosure is specially designed to meet the requirements of Class I Div I and Div II locations. Per the National Electrical Code (NEC), a hazardous location is an area in which flammable or explosive gas, liquid, or dust is present. These explosive agents may be present at all times, only during abnormal operations, or only when components or processes fail.



Specially designed for FLIR compact A-series cameras, the ViperVenom Compact housing is milled from anodized aluminum and ensures optimum fit based on the lens configuration.



VIPERVISION SYSTEM

Our ViperVision software manages the entire fixed imaging system. The customizable interface can be installed on a variety of PC configurations. A NEMA 4 enclosure is typically provided with all systems and includes all necessary components for the configuration and control of the system.

VIPERVISION

- Camera Connectivity (all FLIR A-series cameras, FLIR G300a, Axis visual cameras)
- Region of interest measurements (up to 32 per image) and real-time processing
- Visual and audible alarms
- Discrete relay alarm triggering
- Analog in/out and Digital in/out
- Automated data archiving
- Ability to create multiple configurations
- Password-protected interface
- Multiple display configuration tool
- Remote camera function control
- Adjustable emissivity, transmission and background settings
- Adjustable image palettes (color, span, range)
- Save videos and thermal images
- Playback and analyze recorded images/videos
- Isotherms
- Multiple types of ROI with temperature display
- ROI minimum, maximum, average, and temperature information from every pixel
- Hot and cold spot detection
- Simultaneous support for up to 32 cameras
- Auto start feature
- Trigger based on alarm condition
- Enhanced post-analysis features within ViperViewer

TIME LAPSE MODULE ADD-ON:

- Image playback based on event triggers or time-based capture
- .avi export of radiometric images

OPC MODULE ADD-ON:

- OPC server streams camera diagnostics, ROI data, alarm outputs, triggered snapshots, and organized file storage
- Minimizes cables and components with simple Ethernet-based integration