

ViperVision Software



Monitor for Process Control

Windows-based software that provides real-time monitoring, data acquisition and imaging post-analysis of industrial processes

Automate your process with ViperVision

ViperVision connects to all FLIR
A-series thermal imaging cameras
and Axis visual cameras, as well
as some specific models from ICI
and AST.

Viper's systems increase
efficiency and continuously
monitor temperature which
helps customers 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 packages allow for real-time monitoring, data acquisition, and imaging post-analysis of the industrial processes. Automate your process with ViperVision.

FOR YOUR

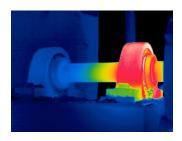


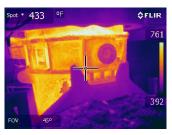


Applications

ViperVision is beneficial for many industrial processes. Some common applications and key benefits include:

- Critical Asset Monitoring
 Alarm based on a percentage of pixels being over set threshold
- Early Fire Detection
 Identify hot spots before fire occurs
- Elevated Body Temperature (EBT) Detection
 Mitigate the spread of illness with pre-screening
- General Industrial Process Monitoring
 Automated start/stop of process based on image recognition
- Hot Spot Detection for Critical Vessels
 Early detection of refractory breakdown
- Steel Mill Refractory Monitoring
 View, analyze, record, and trend critical data with ViperTrack package
- Substation Critical Assets
 identify hot spots before critical asset failure





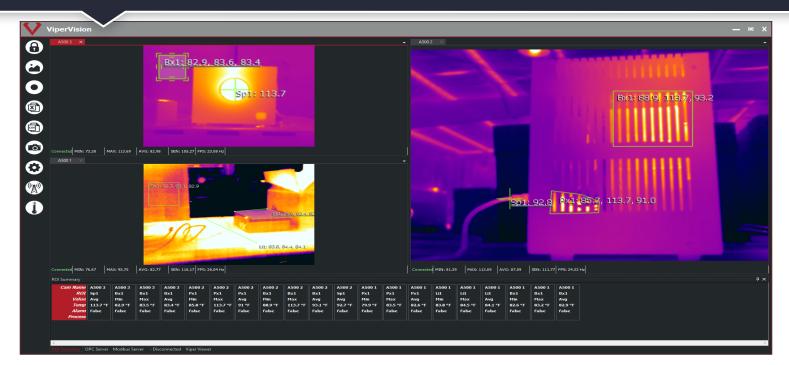








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ViperVision Overview

No need to choose between power and ease of use - select the best full-featured software package for your application. ViperVision software supports communication standards for connection to the plant control system including OPC, Modbus, and physical I/Os such as relays and analog outputs. The software will analyze and compare the data against predefined parameters and will trigger an alarm if warranted. These parameters can easily be adjusted based on the specific application needs.

- Camera connectivity (all FLIR A-series, Axis visual cameras, and some AST and ICI models)
- Region of interest (ROI) measurements (50+ per image) and real-time processing
- Feed from up to 32 cameras on a single workstation
- Ability to view remotely via web server snapshot, video and Excel functionality

Set the ViperVision customizable display to show only the data critical to your process.



Alarming

- Based on temperature, rate of change and standard deviation
- Based on a percentage of pixels being over set threshold
- · Based on the difference between two measurements
- · Hot and cold spot detection
- Visual, email, and audible options each alarm can have its own distinct audio
- Save thermal data on alarm
- · Analog in/out and Digital in/out
- · PLC communication

Configure with Ease

- Ability to create multiple configurations, even userspecific display settings
- · Password-protected interface
- Multiple display configuration tool
- · Remote camera function control
- Adjustable range, emissivity, transmission, and background settings
- Adjustable image palettes (color, span)
- Isotherms
- · Multiple types of ROI with temperature display
- ROI minimum, maximum, average, and temperature information from every pixel
- Auto-start feature
- Simple right-click option allows for camera-specific actions







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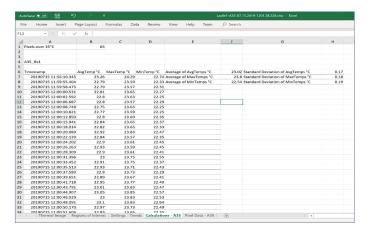
FEATURES & FUNCTIONS

Database Feature

- · Automated data storage management
- Save videos and thermal images
- · Playback and analyze recorded images/video
- Enhanced post-analysis features within ViperViewer

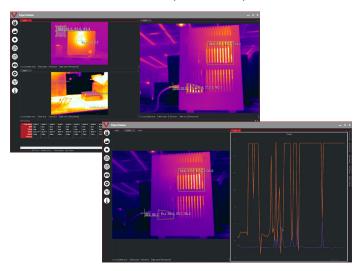
Report Generation

- Default reports in .xls, .csv, and .pdf formats
- · Create one report for all cameras
- · Reports include standard deviation calculations
- · Temperature and alarm data is saved to report



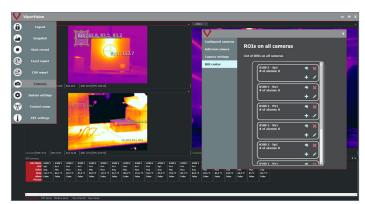
Charting

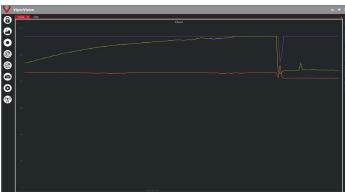
- · Customizable charts and graphs
- Display data from different ROIs and different cameras on same chart
- · Chart holds 500 data points and updates in real time



Control Communication Functionality

- Alarm
- · Temperature output
- Thermal .jpeg files (individual or on interval)
- Record video
- · Export with Excel
- System heartbeat
- Part numbers
- · Load configuration
- · Standard deviation output
- · Trigger saving to database
- · Archive database
- · Freeze image





ViperVision Max: This image shows two cameras with ROIs drawn, and a chart displaying trending data from each ROI. The user can zoom in on the chart by hovering over it and scrolling the mouse wheel.



ViperVision Computer Specifications

Please visit our website for the minimum requirements. Scan QR code, or visit this URL: viperimaging.com/products/vipervision-software







ViperVision Package Comparison Chart

	ViperVision Lite	ViperVision Max	ViperVision Ultra
Offline viewer for all thermal and visible images	~	✓	~
Connects to all FLIR A-series cameras	~	~	~
Connects to Axis visible cameras	✓	~	~
Controls for color palette, range, focus	~	V	~
Multiple camera display- customizable	~	✓	~
Create custom Regions of Interest (ROIs)- spot, line, ellipse, rectangle, polygon	✓	✓	✓
Record thermal jpeg or video (seq/avi) files	~	~	✓
Alarming based on high, low, average, and delta	~	~	~
Email output based on alarm or time	✓	V	~
Default reports in .xls, .csv, and .pdf	~	V	~
Communications Module- Modbus, OPC, Siemens, Allen Bradley		✓	~
TimeLapse Module- allows recording over time and playback through ViperViewer		~	~
Pan/Tilt controls- on-screen controls, automated routing and connectivity to manual joystick (sold separately)		~	~
Database Module- includes automated reporting based on customized trending			✓
On-screen Charting			~
Standard deviation calculations			~
Advanced recognition algorithms for ROI correction			~
Elevated Body Temperature Detection (EBT) Module			~
Custom-built reporting (package includes one; additional available)			~

How to purchase:

We offer the options of a perpetual license or annual license renewal subscription.

SYSTEM SOLUTIONS FOR INDUSTRIAL PROCESS MONITORING

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