Viper Imaging Systems

Viper Imaging designs and integrates complete monitoring system solutions enabling customers to increase production, improve reliability and create a safer workplace.

LET'S GET STARTED >

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SOLUTIONS

At Viper Imaging, we understand the needs of our industrial customers. We are a leading supplier and integrator of thermal imaging systems and industrial process monitoring equipment. Our proven systems and software are installed in a variety of industrial applications for oil and gas, energy production/distribution, metals, and other heavy manufacturing.

Viper system solutions can be fully integrated into various control systems providing alarms, trends, and the data needed to make critical decisions that promote a safer workplace while increasing efficiency and productivity.

Our systems are specially designed to scale from a small-scale plant or mill to the largest industrial complex, and our experienced team of application specialists and engineers is here to help build a solution that works for you.

TELEDYNE FLIR — PLATINUM PARTNER | OPGAL — Beyond the Visible | FOTRIC — CONNECTING THE DIGITAL FUTURE | systems with intelligence | optris | AXIS COMMUNICATIONS | ICI

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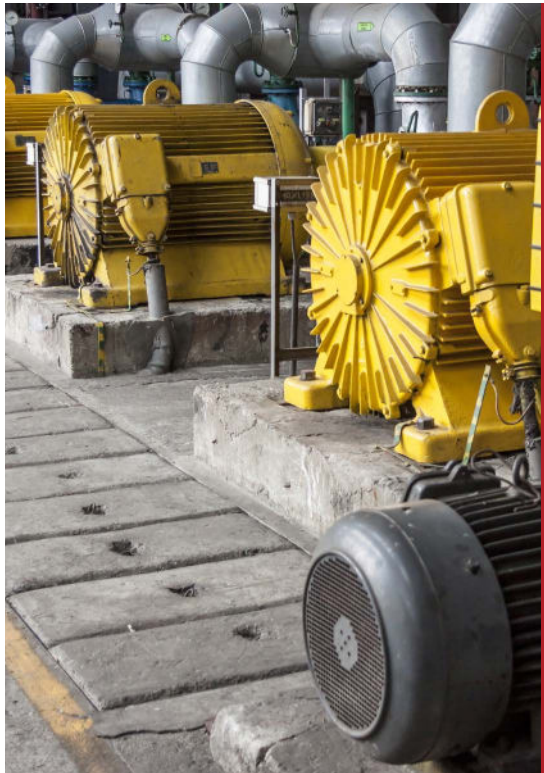FOR YOUR PEOPLE FOR YOUR COMPANY FOR YOUR EQUIPMENT

SOLUTIONS - Monitoring Applications

Hot Spot Detection for Critical Vessels

Thermal monitoring provides a continuous, accurate, and reliable solution for process monitoring and fault detection.

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Critical Asset Monitoring

Continuous and reliable temperature measurement solution for critical assets to increase uptime and ensure plant safety.
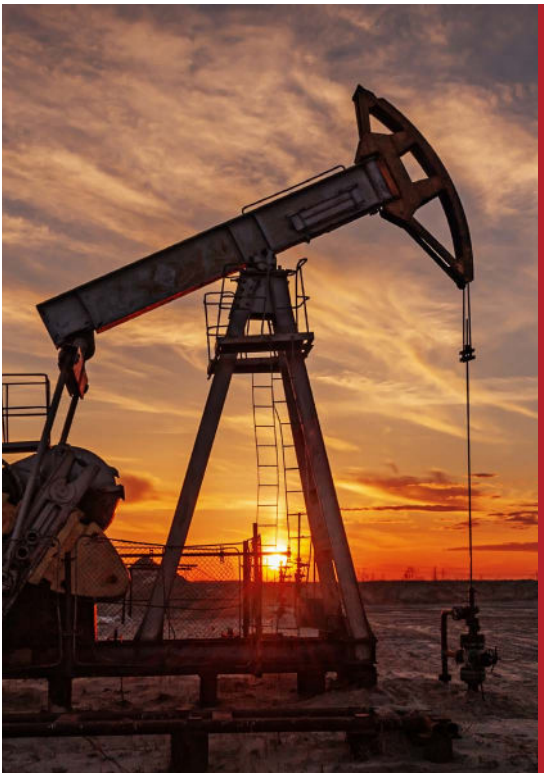
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Steel Mill Refractory Monitoring

Thermal monitoring systems provide an accurate, reliable measurement solution to ensure plant safety and increase efficiency.

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Gas Leak Detection Solutions

Identify and quantify gas leaks quickly, accurately, and safely with Viper Imaging gas leak detection and emissions monitoring solutions.

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Flare Stack Monitoring

Identify correct pilot ignition, proper burning profiles, and basic flare conditions with automated remote thermal monitoring.

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Substation Monitoring

Continuous thermal monitoring improves the reliability of power delivery systems while reducing maintenance costs.

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SOLUTIONS - Monitoring Applications

Industrial Process Monitoring

Thermal imaging camera monitoring provides automated inspection, process control, and condition monitoring.
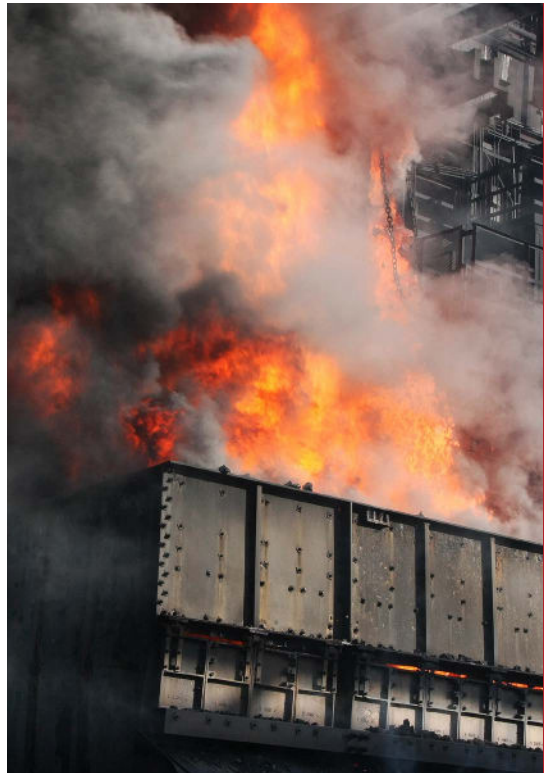
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Early Fire Detection for Wood Products Industry

Continuous remote thermal monitoring for wood processing and storage areas detects hot spots before a fire occurs.

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Early Fire Detection

Automated remote monitoring with thermal imaging detects hot spots before a fire occurs so necessary measures can be taken.

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Security

The Viper Predator Security system offers remote surveillance and alarms, with digital video evidence for identifying and handling potential threats

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VIPER IMAGING

PRODUCTS

Viper partners with companies known for quality, durability, and measurement precision. We select cameras and components that offer a broad variety of features and benefits while maintaining simplicity in integration and ease of use for our customers.

SEE PRODUCTS >

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PRODUCTS

Viper Predator System

Protect your industrial equipment and personnel with our powerful, out-of-the-box solution for security and the detection of hot spots or gas leaks.
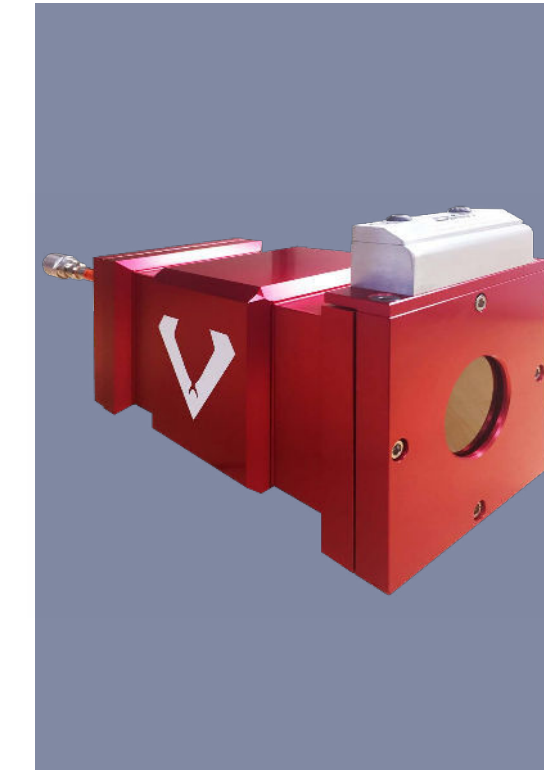
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ViperVision Software

Windows-based thermal software we designed for FLIR A-series and select cameras from other manufacturers.

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Camera Enclosures

ViperVenom enclosures are rated IP67, and options are available for customization to Class I Div 1/Div 2 (for FLIR A-series, some Optris, and others).

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Viper Quick Deploy System

This innovative system can easily adapt to changes in monitoring needs as it can be transported from one site to another.

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Teledyne FLIR Cameras

Measuring temperatures from -20°C to 2000°C and available in varied configurations, FLIR A-series cameras easily integrate into monitoring systems with ViperVision software.

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Furnace and Boiler Cameras

These cameras utilize specialized electronics, optics, and protection for high-quality video and temperature data (integrates with ViperVision).

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PRODUCTS

Fotric Thermal Imagers

These handheld cameras are intuitive, reliable, and cost-effective tools for on-the-go inspection (various resolutions and lens options available).

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Opgal OGI Cameras

Offering highly sensitive handheld optical gas imaging, Opgal cameras detect CH4, CO2, and 400+ VOCs (onboard gas quantification and OOOOa compliant).

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Optris Cameras and Pyrometers

Optris compact thermal cameras and high-quality pyrometers are designed for automated and/or remote industrial condition monitoring.

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SonaVu Ultrasound & Acoustic Imaging

These cameras find defects such as compressed air/gas system leaks, PD on electrical assets, and failed/working steam traps.

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ViperVision System

Our ViperVision software is the central hub of your monitoring system. Thermal cameras are integrated with ViperVision to directly communicate with your industrial control platform.

- Monitor multiple assets in real-time
- Identify hot spots and changing rates of thermal heating
- Control camera function and data transfer
- Create and control scan routes
- Interpret the data
- Email reporting of data and images

COMPARISON CHART ›

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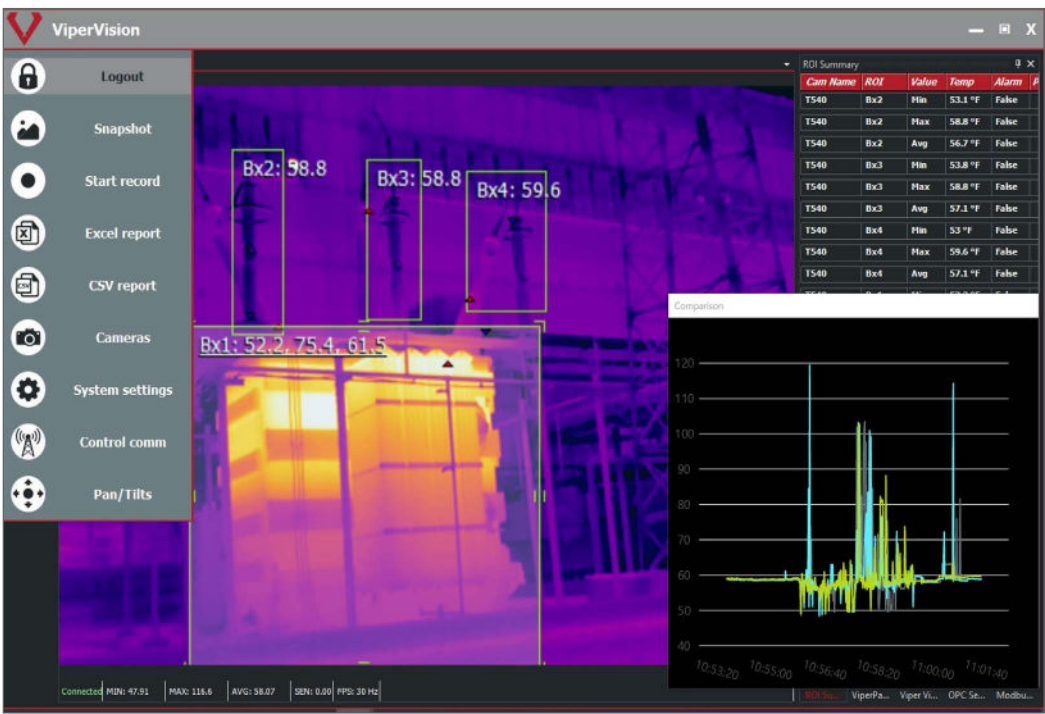
The customizable display can be set to show only pertinent information and data.

Communication Architecture

- MQTT
- Rest API
- SMTP
- digital I/O
- Modbus TCP
- Ethernet/IP

ONVIF-S — **VMS**
- Milestone
- Avigilon
- Genetec

Customer Designed Integration

RTSP — **ViperVision**

- DNP3
- OPC
- Ethernet/IP
- Modbus
- S7
- digital I/O

- SCADA (Honeywell, DeltaV by Emerson)
- PLC (Siemens, Allen-Bradley)
- Data Historian (OSIsoft, iba)
- Email or Text

Common Integrations

Allen-Bradley by Rockwell Automation · AVIGILON · convergint · dnp3 · EMERSON · EtherNet/IP · Genetec · Honeywell · ibs · MILESTONE · Modbus · OPC UA · OSIsoft · PROFINET · SIEMENS Ingenuity for life

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ViperVision Package Comparison Chart

How to purchase:
We offer the options of a perpetual license or annual license renewal subscription.

	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	✓	✓	✓
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	✓	✓	✓
Default reports in .xls, .csv, and .pdf	✓	✓	✓
Communications Module- Modbus, OPC, select Allen-Bradley, and Siemens PLC via OPC or S7 Protocol		✓	✓
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		✓	✓
Comparative analysis - including standard deviation		✓	✓
Advanced recognition algorithms for ROI correction			✓
Elevated Body Temperature Detection (EBT) Module			✓
Custom-built reporting (package includes one; additional available)			✓
Access Control			✓

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VIPER SERVICES
Infrared Inspection & Calibration Checks

General Inspection Services
Includes thermographic/visual scan of equipment with a comprehensive report of the findings.

Optical Gas Imaging/Furnace Inspection
Includes thermal camera scans of possible gas leaks and furnace issues with a download of all recorded thermal data and videos.

Calibration Checks
On-site service includes a calibration check, up to 550°C, for most thermal imaging cameras and pyrometers. This inspects for camera drift as well as uniformity.

Note: NIST Traceable calibration checks can be performed at Viper's facility for temperatures up to 1,200°C.

Quarterly Service Plan
Viper personnel is on-site one day per quarter to verify camera focus and inspect for cleanliness, confirm systems support, and perform software upgrades. This plan includes an annual calibration check of cameras and pyrometers.

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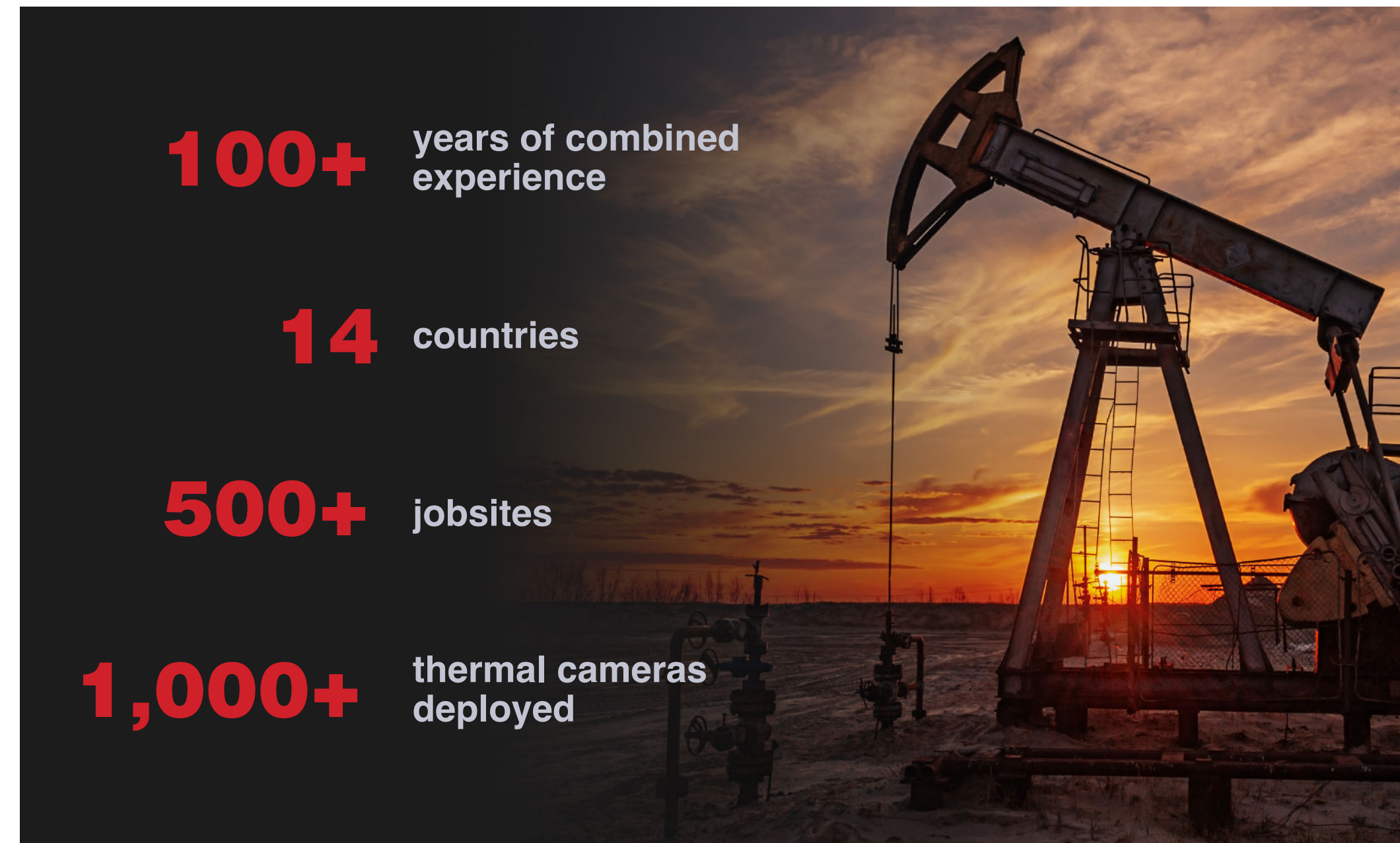
SYSTEM SOLUTIONS FOR
INDUSTRIAL PROCESS MONITORING

Application Engineering Specialists

Viper Imaging is dedicated to meeting the unique needs of our industrial clients. As a top supplier and integrator of thermal imaging-based systems and process monitoring equipment, we have a track record of success in various commercial applications.

Our team has decades of combined experience in working with infrared and thermal imaging technology. With the backing of our parent company, Systems With Intelligence, we are continuously developing and improving cutting-edge solutions that are tailored to specific applications.

PURCHASE OPTIONS ›

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100+ years of combined experience

14 countries

500+ jobsites

1,000+ thermal cameras deployed

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Purchase Options Chart

	Hardware as a Service (HaaS)	Lease	Purchase	Rental
Upfront costs	$	$	$$$	$$
Monthly fee	Yes	Yes	N/A	Varies
Equipment ownership	Viper	Viper initially, then transitions to Customer	Customer	Viper
Contract term	3-year (renewable)	2, 3, or 5 year	Paid with order	Weekly or Monthly
Annual on-site routine maintenance & calibration checks	Yes	Optional	Optional	N/A
Quarterly service plan	Yes	Optional	Optional	N/A
ViperVision software upgrades	Yes	Optional	Optional	N/A
Critical spares in consignment	Yes	Optional	Optional	N/A

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