High-Temperature Process Monitoring

Imaging Systems for Furnaces, Boilers & Kilns

Viper Imaging provides specialized cameras designed for high-temperature process monitoring. The imaging systems utilize a proprietary combination of electronics, optics and protection to constantly monitor and produce high quality video and temperature data of your process.

KEY BENEFITS:

- Maximizes efficiency and capacity by revealing fuel material and air flow in the burning zone
- Reduces maintenance costs and improves personnel safety by diagnosing issues early
- Helps reduce build-up resulting in fewer shutdowns
- Improves performance resulting in reduced emissions
- Aids in start-up and troubleshooting for burner malfunctions
- Integrates with ViperVision Software

VIPER IMAGING

SYN-FAB.

(866) 542-7024  ViperImaging.com
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SF-12C VISUAL FURNACE CAMERA SYSTEM
The SF-12C is our most popular high-temperature system designed for monitoring boilers, furnaces and kilns. It is the industry’s first and only system allowing a broad spectrum from visible light to mid-wave infrared to be used on a common optical path. This technology is critical for waveband optimization of each system’s optics. The result is a true color (visual) image of your process. Benefits include shaping and positioning of fuel beds, early indication of pluggage and process wear.

SF-12M MIDWAVE INFRARED FURNACE CAMERA
The SF12M is a flame-filtered high-temperature system designed for monitoring boilers, furnaces and kilns. The infrared detector used in this camera is optimized in order to see through smoke, ash and haze produced within even the most volatile boilers and furnaces.

SF-12N NEAR INFRARED CAMERA
Similar to the SF-12C, the SF-12N utilizes an optimized infrared detector to see through smoke, ash and haze specifically produced within high temperature kilns. The imaging system is typically installed on the hot end of the kiln with fiber optics, co-ax, or the plant network used for video/data transmission from the kiln to the control room.

SYSTEM OPTIONS:
- Balanced draft and positive pressure wall boxes for permanent/semi-permanent installation
- Automatic retract assemblies
- Lens lengths available from 12” to 72” with straight ahead, right angle, or 45° obtuse line of sight
- Five field-of-view lenses available from telephoto to super wide angle
- Portable cart assembly for diagnostics and testing
- Air filtration systems
- Digital recorders, monitors, switchers and other video equipment
- Fiber optic and wireless video/data transmission
- Custom mounting options available
- ViperVision software integration

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