

# SF12IR HIGH TEMPERATURE IMAGING SYSTEM

FOR

FURNACES • BOILERS • KILNS • INCINERATORS



UPPER FURNACE TUBES

RECOVERY BOILER SMELTBED

LIME KILN

The SF12IR imaging system from **SYN-FAB®** represents the state-of-the art in high temperature process monitoring. Each system utilizes a high-tech, solid state camera to produce sharp, long lasting video of your high temperature process. Systems can be used standalone with the image displayed on a standard CCTV monitor or coupled to our **SPECTRUM™** or **PYROVIPER™** image processing systems for image colorization, temperature measurement, recording, data trending, etc.

## SF12IR SERIES FEATURES

► Proprietary **Bright Image Optical System** for sharp images ► Quickchange construction for easy installation and maintenance ► Modular design for easy option add-ons and upgrades ► Easy to handle compact design ► Loaner systems and 24 hour service for emergencies ► Indestructible **STEELON™** housings to protect electronic components ► Advanced lens design for low air consumption, wider field of view and easy assembly/disassembly ► **Solid state** camera electronics and controls ► High performance, ruggedized imagers for increased durability

## SYSTEM OPTIONS

► Balanced draft and positive pressure wallboxes for permanent/semi-permanent installation ► Lens lengths available from 12" to 72" with straight ahead line of sight, right angle line of sight or 45° obtuse line of sight ► Automatic retract assemblies ► **PYROVIPER™**, Thermal Analysis and **SPECTRUM™** image processing and temperature measurement systems ► Portable cart assembly for diagnostics and testing ► Air filtration systems ► Digital recorders, monitors, switchers and other video equipment ► Five field-of-view lenses available from telephoto to super wide angle ► Fiber optic and wireless video/data transmission ► Custom options for special needs



Image viewed on **PYROVIPER™** image processing system

## BENEFITS TO BOILER OPERATORS

► Maximizing efficiency and capacity by showing fuel and air flow in the burning zone ► Increasing safety margins by helping detect tube leaks and other problems before major damage occurs ► Helps reduce slag, clinker, and ash build-up resulting in fewer shutdowns and lower maintenance cost ► Reducing pollution due to improved boiler performance ► Aiding startups and troubleshooting burner malfunctions ► Helps in shaping and positioning fuel bed

# SYN-FAB® INC.

**HIGH TEMPERATURE & INDUSTRIAL PROCESS MONITORING SYSTEMS**

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