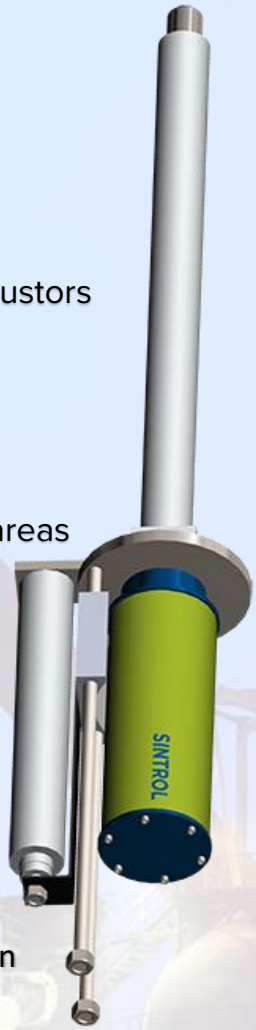
NEVCO

*Excellence in Measurements...*

# Furnace Camera

## High Temperature Imaging System




## Applications

### Pulp & Paper

- Power boiler (looking down at grate)
- Power boiler (mounted at grate level)
- Lime kiln
- Upper furnace (clinker, carryovers & tubes)

### Power & Utility

- Power boiler (fireball, ashpit & burners)
- Gasifiers
- Upper furnace (clinker, carryovers & tubes)

### Waste Incineration

- Refuse boilers and combustors
- Biomass boilers

### Steel and Glass Industry

- Reheat furnaces
- Glass furnace
- Conveyors and transfer areas

### Cement, Lime & Coke

- Hot end of kiln
- Clinker cooler

## Typical Installation helps in

- Mitigate the risk of explosions
- Control slag build up
- Avoid tube damage
- Improve efficiency
- Control unwanted formation / build up
- Reduce emissions
- Minimize fuel consumption
- Troubleshoot problems
- Aid in start-ups
- Confidence in process

## Customized Models for

**Recovery Boiler** **Power Boiler** **Kiln Monitoring**

## The Payback

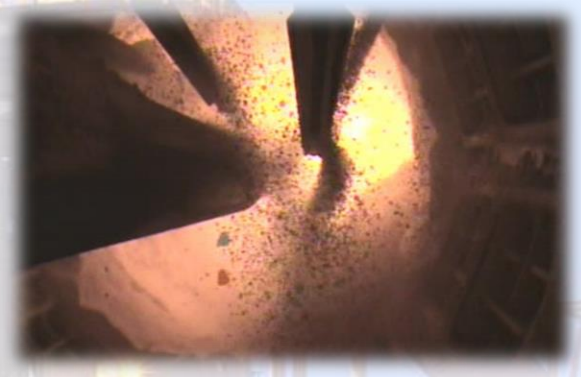
- Reducing Fuel Costs
- Helps in Optimizing Performance
- Improve Product Quality
- Control Efficiency
- Reduce Tube Leaks
- Environmental Advantages
- Reduce Kiln Upsets
- Improve Refractory Life
- Increase Personnel and Plant Safety
- Decrease Maintenance Costs
- Give Operators the Confidence
- Fewer shut-downs

# Custom Software

- Pyro-ViperTM-HD image processing and analysis software
- To see and capture images and measure temperatures from infrared cameras
- To define custom regions of interest, alarms, and report status to a control room using analog 4-20mA (2…32) and / or OPC output (optional)
- Alternate functionality also allows for calibrated use of Carryover Counter.

# Sintrol Vulcan12C-2C

*The Most Advanced Imaging System for Lime Kilns*



- High Temperature Imaging System for kilns monitoring
- Reduced emissions by improving performance
- Allows multiple cameras/detetors operating in different spectral wavebands to share a common furnace lens
- Helps maximize efficiency and capacity by showing fuel and air flow in the burning zone inside the kiln in color video
- Allows utilization of a broad spectrum from visible light to mid-wave infrared on a common optical path
- Helps reduce build-up resulting in fewer shutdowns and lower maintenance cost
- Helps in shaping and positioning clinker
- Typically used in conjuction with Pyro-Viper-HD-software

# Sintrol Vulcan12MP

*Advanced Imaging System for Recovery Boilers*


- High temperature combustion control and monitoring for recovery boilers
- Each system utilizes a high-tech combination of electronics, optics and protection to produce high quality, reliable video and temperature data of boiler furnace.
- Typically used in conjuction with Pyro-Viper-HD - software
- The Vulcan12MP's wavelength optimized infrared optical system is designed to see through the smoke, ash and haze produced within even the most volatile boilers and furnaces


NEVCO ENGINEERS PVT. LTD.

www.nevcoengineers.com sales@nevcoengineers.com +91-11-41717112/3/4/5

90A-2nd Floor, Opposite Iskon Temple, Amritpuri-B, Main Road, East of Kailash, Delhi - 110065