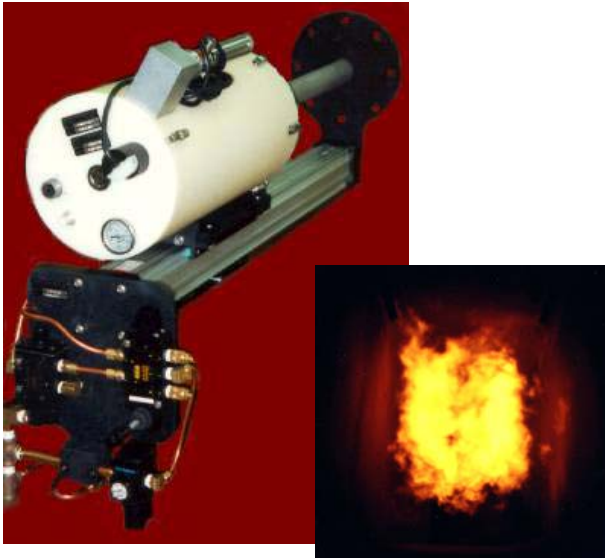




Lenox Instrument Company, Inc.
265 Andrews Road • Trevoose, PA 19053
USA 800-356-1104 • Worldwide 215-322-9990
Fax 215-322-6126 • sales@lenoxinst.com

FireSight[®] High-Temperature Remote Viewing Systems *for color video monitoring of combustion and process control in boilers, furnaces, kilns and incinerators*



Only by seeing directly into the inside of your boiler, furnace or incinerator, can you:

- Instantly see burner malfunction, tube leaks and other problems before major damage occurs
- Watch for proper process flow and accurate conveyance of materials
- Helps reduce NOx, slag, clinker and ash build-up reducing shut downs and maintenance costs
- Save time, man-hours and fuel during start-up
- Maximize the efficiency and safety of your unit by viewing fuel and air flow in the burning zone

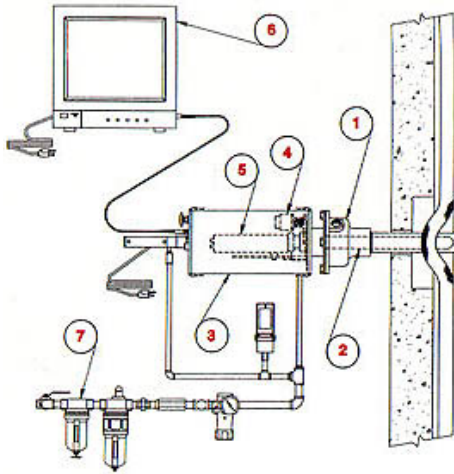
Specially designed for high-temperature environments - and backed by over eighty years of experience - **Lenox** FireSight systems view the inside of your furnace or boiler and displays what it sees in real time on a color monitor 24 hours a day 365 days a year. A proven record of reliable performance that is unmatched by any other system available today and backed by a **two-year warranty!**

The **Lenox** FireSight air-cooled system for applications to 3000°F requires a boiler wall penetration of only 2-3/8 in. With its small size, the system will normally fit between boiler tubes and can often be used with existing wall penetrations. FireSight systems provide the highest image clarity in the industry. The Light Volume Control feature, a Lenox exclusive, consists of a remote-controlled motorized iris and spot filter located in the furnace lens. With the Light Volume Control, an operator can easily adjust the amount of light transmitted to the camera, eliminating the flaring common with other systems and ensuring a high-quality image from initial light off to maximum load. The system features quartz optics, another Lenox exclusive, that withstands temperatures up to 1200°F (649°C) higher than the glass lens used in other systems. The compressed air-cooling system provides reliable performance while using considerably less air than competing systems. The Wall Box mounting assembly provides a protective housing for the system and serves as the primary coolant shroud. (For portable systems see Portable FireSight Diagnostic Cart brochure).

Optional system accessories include an Automatic Retract System that automatically pulls the **Lenox** FireSight back should a loss of cooling occur, preventing possible over-temperature damage to the furnace lens assembly; a high efficiency compressed Air Filter System for removing oil, water and particulates providing clean air to the FireSight system insuring trouble-free performance and a clear view of the combustion. It uses a self-purging coalescing filter and a pressure differential switch, which may be wired to an alarm, letting the operator know when its time to change the filter elements. Flat CRT or Flat LCD monitors and a Digital Video Recorder are also available.



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- 1 Wall Box
- 2 Furnace Lens
- 3 High-Temperature, Air Cooled Camera Housing
- 4 Light Volume Control
- 5 Compact, High-Resolution CCD Camera
- 6 Video Monitor
- 7 High Efficiency Compressed Air Filter System

FireSight Systems Include:

- Air-cooled FireSight Furnace Lens Assembly (specify 24" or 36" – direct or right angle viewing)
- Air-cooled CCTV Housing Assembly
- High-resolution CCD Color Camera Assembly
- Light Volume Control Motor Assembly – consists of a remote-controlled motorized iris and spot filter located in furnace lens assembly – an exclusive to Lenox

| Stock Number | Furnace Lens Length | | Viewing Direction | FOV |
|--------------|---------------------|-----------|-------------------|-----|
| | mm | (inches) | | |
| 6515FC-102 | 610 | 24" | Direct | 90° |
| 6515FC-402 | 610 | 24" | Right Angle | 55° |
| 6515FC-103 | 914 | 36" | Direct | 90° |
| 6515FC-403 | 914 | 36" | Right Angle | 55° |

Lengths up to 96 inches available – consult factory

Wall Box Assembly Mountings

Required for mounting the FireSight system – provides a protective housing and is the primary coolant shroud

| Stock Number | Furnace Lens Length | | Viewing Direction |
|--------------|---------------------|-----------|-------------------|
| | mm | (inches) | |
| 6515A24-900 | 610 | 24" | Direct |
| 6515A24-910 | 610 | 24" | Right Angle |
| 6515A36-900 | 914 | 36" | Direct |
| 6515A36-910 | 914 | 36" | Right Angle |

FireSight System Options & Accessories

| Stock Number | Description |
|--------------|--|
| 6515A-102 | Air Filter System for removing oil, water and particulates |
| 6515A-208/12 | Automatic 12" Retract System |
| 6515A-208/24 | Automatic 24" Retract System |
| 6515A-208/36 | Automatic 36" Retract System |
| 516-0906 | 9" Color Monitor |
| 516-1501 | 15" Color Monitor |
| 516-1502 | 15" Color LCD Monitor |
| 516-2007 | 20" Color LCD Monitor |
| 515-0187 | Digital Video Recorder |
| 6515S-501 | High-resolution CCD Color Camera & Hardware |