



Lenox Instrument Company, Inc.
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FireSight[®] High -Temperature Remote Viewing Systems *for color video monitoring of combustion and process control in waste to energy boilers, furnaces, and kilns*



Only by seeing directly into the inside of your waste to energy furnace or incinerator, are you able to:

- Monitor the fire line position and burn cycle to achieve maximum burnout of the waste on the moving grate
- Reduce shut downs and maintenance costs by identifying slag and ash build-up on boiler tube walls
- Help prevent hot spots / overheat situations close to boiler tube walls or refractory, thus reducing premature failures
- Monitor the conveyance of materials to avoid problematic situations that can put equipment or personnel at risk
- Inspect for ash build-up or bridging across the ash discharger

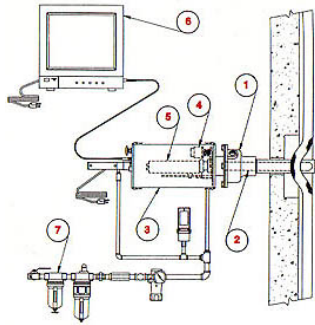
Specially designed for high-temperature waste incineration environments - and backed by over eighty years of experience - **Lenox** FireSight systems view the inside of your furnace or boiler and displays what it sees in real time on a color monitor 24 hours a day 365 days a year. A proven record of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

The **Lenox** air-cooled boiler camera for applications up to 3000°F (1649°C) requires a boiler wall penetration of only 2-3/8 in. (61mm). 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 / blooming 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 System brochure).

Optional system accessories include an Automatic Retract System that automatically pulls the **Lenox** furnace camera 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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Lenox Boiler Camera / Furnace Camera Components:

- 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 with mounting plate

FireSight Systems Include:

*Specifications subject to change without notice.

- 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 (243 cm) 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	Material
	mm	(inches)		
6515A24-900	610	24"	Direct	Carbon Steel
6515A24-910	610	24"	Right Angle	Carbon Steel
6515A36-900	914	36"	Direct	Carbon Steel
6515A36-910	914	36"	Right Angle	Carbon Steel
6515A24-900-OM1	610	24"	Direct	Inconel
6515A24-910-OM1	610	24"	Right Angle	Inconel
6515A36-900-OM1	914	36"	Direct	Inconel
6515A36-910-OM1	914	36"	Right Angle	Inconel

Other non corrosive materials available – consult factory

FireSight System Options & Accessories

Stock Number	Description
6515A-102	Air Filter System with mounting plate (removes oil, water and particulates)
6515A-208/12	Automatic 12" Retract System
516-0906	9" Color CRT Monitor
516-1501	15" Color CRT Monitor
516-1502	15" Color Flat LCD Monitor
516-2007	20" Color Flat LCD Monitor
515-0187	Digital Video Recorder
6515S-MP4	Digital Video Recorder / Player (hard drive)
6515S-501	High-resolution CCD Color Camera & Hardware