



Lenox Instrument Company, Inc.
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Furnace Camera Systems For The Steel Industry

Real-Time, High-Resolution, Color Video Monitoring and Recording



Why Use Lenox Furnace Camera Systems?

- Designed to be rugged and durable for the brutal atmosphere of the steel industry.
- Proven reliable dual cooling system and the highest camera resolution with superior optics.
- Minimal maintenance and operating cost once correctly installed.
- Backed by an industry leading **two year warranty**.
- Flexibility in choice of penetration lengths, viewing angles, water or low consumption air-cooling and a selection of portable water-cooled or air-cooled models.
- Lenox know how, expertise and installation/field service.

Lenox high-temperature **Furnace Camera Systems** provide remote, real-time, high resolution, color video monitoring and recording of material flow processes and are designed specifically to withstand the harsh operating conditions of the steel industry.

The **Furnace Camera System** consists of a 540 line, high resolution, color CCD camera and sophisticated light volume control, a Lenox exclusive that allows an operator to remotely adjust the amount of light transmitted to the camera eliminating the flaring / blooming common with other systems. Quartz optics, another Lenox exclusive, are used and can withstand temperatures up to 1200°F (649°C) higher than the glass lens used in other systems. In addition, a water cooled lens jacket and CCTV camera housing provides cooling and protection for the **Furnace Camera System** and air purging of the lens system to prevent fouling by deposition.

Lenox high-temperature **Furnace Camera Systems** can be used in applications up to 3500°F (1927°C) and are widely used in the steel industry in reheat furnaces, vacuum degassers, continuous casters, blast furnaces, electric arc furnaces, continuous annealers, galvannealers, tunnel furnaces and more. (Contact **Lenox** for information on our complete line of high temperature, camera systems for industrial remote viewing)



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Furnace Camera with F31 Flange Mount

Lenox Furnace Camera Systems Include:

*Specifications subject to change without notice.

- Water-cooled FireSight Furnace Lens Assembly (specify 24" or 36" – direct or right angle viewing)
- Water-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)		
6555FC-102	610	24"	Direct	90°
6555FC-302	610	24"	Direct	60°
6555FC-402	610	24"	Right Angle	55°
6555FC-103	914	36"	Direct	90°
6555FC-303	914	36"	Direct	60°
6555FC-403	914	36"	Right Angle	55°

Lengths up to 126 inches (320 cm) available

Contact Lenox for low consumption, air-cooled fixed systems and water-cooled or air-cooled portable systems

Furnace Camera System Options & Accessories

Stock Number	Description
6555A-EMS	Monitoring Station – Provides for the connection of the required water, purge air and electrical interfaces. Includes: 24" square aluminum mounting panel adjustable air pressure switch (2 – 30 psig) adjustable water flow alarm switch (1–12 gPM) air and water temperature indication with control manifold blocks for purge air and water connections 10" x 12" NEMA 4 electrical junction box w/barrier strip penetration for 3 conductor LVC cable
F31	3" 150 Flange Mount
6555A-206/24	Automatic 24" Retract System w/controls mounted on back
6555A-206/36	Automatic 36" Retract System w/controls mounted on back
516-0906	9" Color Monitor
516-1501	15" Color Monitor
516-1502	15" Color Flat LCD Monitor
516-2007	20" Color Flat LCD Monitor
515-0187	Digital Video Recorder
6515S-MP4	Digital (hard drive) Recorder / Player
6515S-501	High-resolution CCD Color Camera & Hardware