



**Lenox Instrument Company, Inc.**  
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## ***Portable Furnace Camera Diagnostic System***

***for color video monitoring of combustion and process control  
in high-temperature furnaces***



Only by seeing directly into the inside of your high-temperature furnace, are you able to:

- Instantly view combustion and flame pattern for possible burner malfunction
- Assess refractory condition inside the furnace
- Safely monitor process flow for proper material position, alignment and movement

The **Lenox** Portable Furnace Camera Diagnostic System provides an easy and economical means to achieve real-time, color video monitoring and digital recording of combustion and process control in high-temperature, billet reheat furnaces like walking beam, walking hearth, pusher furnace, and also rotary hearth, annealing, melt shop, electric arc furnace (EAF), and other thermal treatment furnaces found in the steel and metal industries. With this mobile system, operators can use one unit for diagnostics or monitoring and recording of several individual furnaces using any available 3.5 inch (89 mm) opening.

This Portable Furnace Camera Diagnostic System is entirely self-contained, consisting of an air filtration and power system, water hoses, and 8-inch LCD color monitor packaged in a durable case with telescoping handle and wheels. The furnace camera's stainless steel housing employs a steel triple wall laminar flow for efficient water-cooled protection of the CCD color camera and integrated low consumption air-purging to keeps the lens clear of particulate, enabling extended operation in hostile environments up to 3500°F (1927°C). A radiant heat shield and mini-digital video recorder with a LCD screen are available as options. (For fixed systems see Furnace Camera Systems brochure).



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\* Specifications subject to change without notice.

**Furnace Camera Diagnostic Systems Include:**

- Wheeled Case(s) – includes 8” monitor, air filter assembly, power system, with air-hose and cables
- High- resolution, CCD Color, Furnace Camera with handle
- Two - 3 meter length water hoses

Stock Number	Furnace Camera Length		Furnace Camera Diameter		FOV
	cm	(inches)	mm	(inches)	
6935DC-3104	79	31	89	3.5	72° direct viewing

**Furnace Camera Diagnostic System Options**

Stock Number	Description
6515S-MP4	Digital (hard drive) Recorder / Player
LICO-FCRHS	Furnace Camera Radiant Heat Shield