

Diamond Power® Wall-Eye® HD

High-definition Visible Range Process Viewing System

The Diamond Power® Wall-Eye® high-definition (HD) viewing system from Babcock & Wilcox (B&W) is a powerful industrial remote viewing system. Using a solid-state camera, the Wall-Eye HD system delivers pristine, highly detailed images of your boiler or furnace — in vivid color, and with twice the resolution of our previous designs.

The Wall-Eye HD camera has a wide field-of-view that allows you to see more of the boiler or furnace interior.



B&W's Diamond Power Wall-Eye HD visible range combustion process viewing system provides a wide field-of-view inside your boiler or furnace.

Benefits

- Allows for monitoring and inspection of the most severe areas of the boiler or furnace to control process temperature and optimize performance
- Simplifies maintenance with easy field adjustments
- Provides potential for lower maintenance and cooling utility costs
- Delivers high definition images for a better view of the process
- Provides excellent field of view: 80°H x 58°V
- Greatly reduces air consumption
- Unique dual-walled construction isolates and seals the camera from contaminants in plant air supply

System Contents

The Wall-Eye HD camera system includes a solid-state visible range camera, high-resolution optical probe, a color monitor and an optional retract.

Features

- High resolution, 1/3 in. format optical probe with optics capable of withstanding temperatures in excess of 1100F (593.3C)
- Optics are factory-assembled into replaceable units, for easy maintenance
- Allows the use of various sizes and designs of cameras including IP cameras
- Standard camera has an infrared filter with enhanced sensitivity for low- or high-temperature applications
- Electronic digital pan, tilt and zoom features on select models
- Auto focus (on select models)
- Remote camera control over same coaxial cable used for video display (on select models)
- Proprietary HTH-8 high-temperature camera housing
 - Dual-wall construction housing
 - Can use water- or air-cooling

continued ▶

Specifications

Air inlet	1 in. NPT pipe
Air requirements	Instrument or filtered plant air and vortex coolers
Applications	Coal-, oil-, wood- or gas-fired boilers and furnaces Negative pressure, balanced draft furnaces or positive-pressure furnaces Industries served include utilities, pulp & paper, steel and glass
Camera system	NTSC Color (PAL optional)
Electrical requirements	120 v, 60 HZ, 0.1 A. Option 12 VDC , 0.4 A 220 v, 50 HZ., 0.05A
Housing	Dual-walled with SPST thermostat for internal high-temperature housing indication. Ambient temperature 200F (93.3C), water- or air-cooled options available
Optical probe	80°H X 58°V FOV standard, offset line-of-sight options available
Operating temperature	Up to 3000F (1648C) furnace temperatures
Power (camera)	120 VAC/60 HZ with optional 12 VDC
Resolution	Resolution in excess of twice that of standard high-temperature camera designs

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