

Diamond Power® UtiliCam® AT III Portable Camera

Portable Advanced Technology Infrared Camera System

The Diamond Power® UtiliCam® AT III portable infrared camera system from Babcock & Wilcox (B&W) features solid-state technology with special optics to produce superior viewing through smoke, fumes and particle-laden steams. Extensive lab and field tests and commercial applications have led to the exceptional quality and stability of this camera.

The portable UtiliCam AT III camera can be used to view various combustion processes in coal- or gas-fired boilers, as well as in negative pressure or balanced draft furnaces.

Benefits

- **Online inspection**
Monitor and inspect the most severe areas of the boiler or furnace to control process temperature and optimize performance
- **Flexibility**
Interchangeable optics for straight- and right-angle viewing
- **Better Visibility**
Optical probe cooled by filtered plant air and remote focus adjustment on camera's rear plate provide sharper, more accurate view
- **Portable**
 - Battery-powered via rechargeable belt pack, for up to 19 hours of runtime between charges
 - Shoulder strap for easier portability
 - Includes DVR with 5 in. LCD monitor and internal hard drive and rugged storage and shipping case



B&W's Diamond Power UtiliCam AT III portable camera system is completely solid state.

Features

- Solid-state infrared camera and optical probe with a 40.5° diagonal field of view objective lens (32°H x 24.8°V)
- Straight viewing protective lens cap with sapphire window
- Right angle mirror lens adapter
- Straight and right angle outer stainless steel shrouds
- Optical probe cooled by filtered plant air, which reduces the accumulation of foreign particles on its surface
- Shoulder strap
- Heat shield
- Battery-operated DVR
- Lithium ion battery pack with charger for camera power
- Air regulator with 10-foot (3 m) hose
- 15-foot (4.5 m) coaxial cable for video output to DVR
- 12-foot (3.6 m) camera power cable
- Rugged shipping and storage case with wheels

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Specifications

Maximum Operating Internal Furnace Temperature	3000F (1648C)
Camera Assembly Ambient Temperature Limits	Camera housing: 14 to 122F (-10 to 50C) no cooling
Ambient Temperature Limits	Optical probe: less than 400F (204.4C)
Air Requirements	Optical probe assembly Straight viewing: 20 psi (137.8 kPa) Angled lens: 40 psi (275 kPa) Based on instrument or filtered plant air at 90 to 100F (32.2 to 37.7C) ambient
Air Connections	Optical probe air input: 1/2 in. NPT with 3/8 in. SAE flare fitting using a 10-foot (3 m) hose supplied with air filter/regulator
Optical Probe	Lengths available: 24 in. (609.6 mm) standard, 36 in. (914.4 mm), or 48 in. (1219.2 mm)
Housing Construction	Housing: 4.75 in. dia. (120.65 mm) tubing with 0.5 in. (12.7 mm) wall, 6061-T6511 Front and rear plates: 0.1875 in. (4.76 mm) 6061-T6 aluminum Base: 0.1875 in. (4.76 mm) 6063 T52 aluminum channel
Housing Finish	Semi-gloss textured pearl white
Housing Dimensions	4.75 in. dia. x 5.54 in. H x 12.06 in. L (120.6 mm dia. x 140.7 mm H x 306.3 mm L)

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