

UtiliCam™ LT System

solid-state infrared camera system for utility boilers



LT Camera Insert

Diamond Electronics' solid-state infrared cameras are designed especially for furnace imaging, providing the ability to see through smoke and particle laden gas streams. With filters that block the haze associated with water and CO₂ bands, the UtiliCam™ LT System allows plant operators immediate visual sight of furnace pendant, slagging or pluggage conditions as they evolve. Since the camera sees infrared energy, the video brightness shows relative areas of high and low temperatures and relative areas of high or low heat absorption on heat transfer surfaces.

Working with our customers, we have designed the UtiliCam™ LT System to seamlessly integrate in to the currently installed technology. The vision system for utility boilers is designed to operate with very little maintenance, as the camera within the system has an average life-span of 7-10 years. By eliminating costly vidicon tubes, which are typically replaced every 1-2 years, lifecycle costs have been significantly reduced. Further, when maintenance is required, the UtiliCam™ LT System's unique design provides for low-cost, calibration-free camera insert replacement while leaving the rest of the system intact.



Full Assembly UtiliCam™ LT System for Utility Boilers (LT camera fits inside housing)

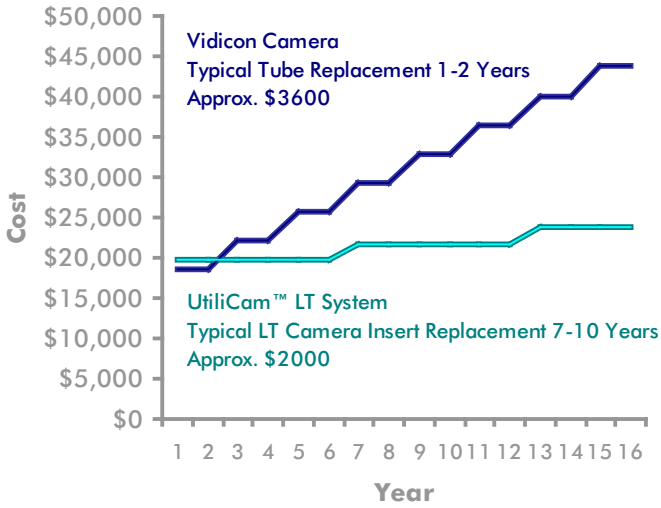
Benefits

- Lower life-cycle costs
- No vidicon tube replacement or calibration required
- Improved boiler operations as a result of immediate and continuous visual feedback to operators
- Safer operation by keeping personnel away from hazardous locations
- Enhanced personnel utilization through assessment of conditions from the control panel
- Three-year warranty on solid-state camera; standard Diamond Power warranty on remaining system components

Applications

- Replaces the vidicon IR camera
- Evaluations of boiler cleaning effectiveness, convection pass pluggage, screen tube fouling
- Pendant monitoring for medium to large size utility boilers
- Available as retrofit for existing vidicon tube camera systems

Lifecycle Costs



Long-term lifecycle costs have been drastically reduced through the elimination of vidicon tubes.

Warranties

Product(s)	Standard Warranty	3-Year Warranty
LT Camera Insert		✓
Other LT System Components	✓	
Vidicon Camera	✓	

The UtiliCam™ LT Camera is backed by a 3-year warranty. Other system components are backed by the standard Diamond Power warranty.

Diamond Electronics is a Diamond Power International, Inc. division.

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