SmeltCam® AT II

HMA POWER GENERATION

The SmeltCam A T II solid state infrared camera system from Diamond Power Controls & Diagnostics delivers vastly improved images of the smelt bed, the superheater area, or the liquor guns. Our state-of-the-art camera system provides a large field-of-view, which means more bed coverage with fewer cameras, providing accurate monitoring at an economical price. The camera is located in a stainless steel housing made to endure harsh working environments. The housing provides high corrosion resistance and is equipped with a silicon tube gasket which provides good sealing from dust and moisture.

As if eliminating the need for replacement of expensive vidicon tubes wasn't enough, the SmeltCam AT II infrared camera system reduces maintenance hours, too. The newly-designed optical probe has encased optics that are keyed for correct position internal to probes and has no loose components which could fall out and break during cleaning. There are minimal parts to handle, and each optical probe is environmentally sealed for maximum protection and shock resistance.

Diamond Power's SmeltCam® AT II camera system is virtually trouble-free because the camera is completely solid state.

BENEFITS

- **Improved bed monitoring -** The SmeltCam AT II infrared camera system uses an optimum wavelength to penetrate fume for better, more accurate monitoring of the recovery bed. Using the superior images delivered by the SmeltCam AT II system, you can identify potential problems, control the bed and optimize lower furnace operation quickly and easily.
- **No vidicon tube replacements; No calibration -** The solid-state components of this system eliminate vidicon tubes, which means no replacements. Calibration isn't necessary either, so the images generated by the SmeltCam AT II won't drift.
- **Reduced operating and maintenance costs over conventional vidicon / lens tube camera systems**

FEATURES

- Pneumatic retract system option protects the air-cooled camera assembly from air system failure
- 105° Diagonal field-of-view
- 1.5" (3.81cm) outerm optical probe diameter
- Easily retrofits to existing vidicon IR camera systems
- Color options to further improve monitoring capabilities
- TemPro™ II temperature measurement option allows the operator to see accurate temperatures over the entire imaging area based on a maximum of 15 user selectable temperature regions
- Optional local monitor box
- Optional CamRod system for automatic cleaning of camera port, including port rodder, mounting plate and control box with timer

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SPECIFICATIONS

Air requirements	Camera assembly:	414 kPa @ .004 M^3/s Instrument or filtered plant air.
	Optical probe:	241 kPa @ .019 M^3/s Based on instrument or filtered plant air at 32.2° C to 37.7° C ambient
Air connections	Filtered air system:	0.5" pipe
Camera assembly	Available lengths:	24" (60.9cm), 36" (91.4 cm), or 48" (121.9 cm)
	Optical probe outer diameter:	1.50" (3.81cm) material 316L SST
Retract control cabinet	Mtrl: Stainless Steel	IP65 rating
Operating temperatures	Camera assembly ambient:	+66°C
	Maximum internal furnace temperature:	+1648°C
Power requirements	Camera housing:	95 to 240 Vac, 47 to 63 Hz, 1.6A max.

The SmeltCam AT II system comes with an optional pneumatic retraction device to protect the camera against high temperatures in the event of low cooling air pressure.

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