TempVision’s two-color spectrum imaging technology measures furnace temperature within its viewing window with a better than 1% accuracy. TempVision simultaneously monitors the temperature and automatically compensates for emissivity variation caused by the soot around the target area. This is a critical capability for precise temperature measurement in a coal-fired furnace environment.

Safe-Fire’s TempVision 1000 system captures and displays the temperature profile of each burner flame in real time. This versatile mobile enables technicians to accurately map the profile of any burner using any available opening at any level. Through reliable and precise measurements, TempVision 1000 is the cornerstone in optimizing burner flame temperature distribution, which results in reduced fuel costs, NOx, and CO emissions.
HOW THE TEMPVISION 1000 SYSTEM WORKS...

FEATURES

- Better than 1% accuracy
- Real time burner temperature profile
- Temperature measurement is independent of soot dynamic and emissivity variation
- Lightweight, portable and packed into one carry-on sized case.
- Intuitive graphical user interface
- Integrated cooling design
- Proven reliable for field applications

BENEFITS

- TempVision 1000 system displays the temperature distribution of burner flames as well as the maximum, minimum, and median temperatures of the region of interest.
- TempVision 1000 can correlate the impact of the temperature distribution of burner flames when a different type of coal is deployed.
- TempVision 1000 enables the user to immediately understand the differences in flame temperature and distribution inside the furnace.

SYSTEM SOFTWARE CAPABILITY
A COMPLETE TEMPVISION 1000 SYSTEM INCLUDES:

- TEMPERATURE DETECTOR
- INDUSTRIAL GRADE LAPTOP COMPUTER WITH WINDOWS 7+ OS
- PREINSTALLED RODIN III SOFTWARE
- TRIPOD
- POWER AND ETHERNET CONNECTION CABLES
- TRAVEL CASE

TECHNICAL DATA

TEMPERATURE DETECTOR

- P/N: 65-TDC-0006
- MODEL #: TDU-1000
- INPUT POWER: 12-24VDC±10%, 7.3W
- MEASUREMENT RANGE: +850°C to +1900°C
- ANGULAR FIELD OF VIEW: 33°24’ x 25°22’
- DIMENSION (L x W x H): 264mm x 120mm x 104mm
- WEIGHT: 8.4 Lbs. / 3.8Kg

INDUSTRIAL GRADE LAPTOP COMPUTER WITH PREINSTALLED RODIN III SOFTWARE

- P/N: 45-200-0199
- INPUT POWER: 100 to 240Vac @ 1.5A, 50/60Hz
- OPERATING TEMPERATURE: -29°C to 63°C
- NETWORK CONNECTORS: RJ-45 Gigabit (2)
- INGRESS PROTECTION: IP-65
- DIMENSION (L x W x H): 14.0”x9.7”x2.03”
- WEIGHT: 7.8 Lbs. / 3.54kg

RODIN III SOFTWARE P/N

- P/N: 45-200-0343
- MAXIMUM LOAD: 30.9 Lbs. / 14kg
- MINIMUM HEIGHT: 17.91”/45.5 cm
- MAXIMUM HEIGHT: 64.37”/163.5 cm
- FOLDED LENGTH: 23.82”/60.5 cm
- WEIGHT: 4.3 Lbs. / 1.95Kg

DIMENSIONS
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