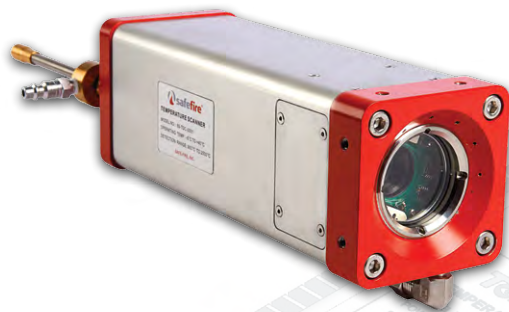


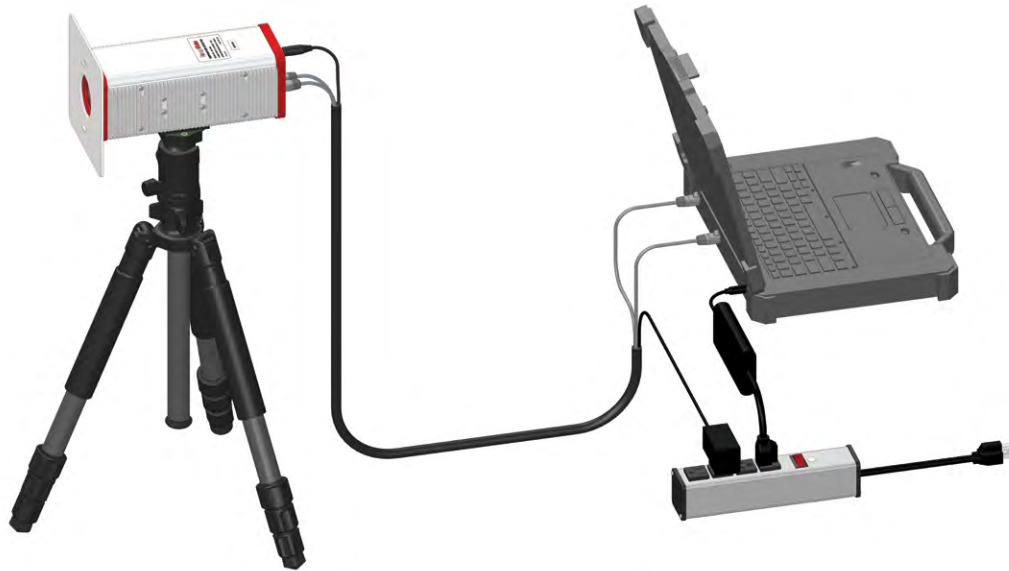
# TEMPVISION 1000



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, NO<sub>x</sub>, 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' × 25°22'

DIMENSION (L x W x H)  
264mm × 120mm × 104mm

WEIGHT  
8.4 Lbs. /3.8Kg

INDUSTRIAL GRADE LAPTOP COMPUTER WITH PREINSTALLED RODIN III SOFTWARE



LAPTOP 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  
45-200-0343

TRIPOD



P/N  
45-300-0979

MAXIMUM LOAD  
30.9 Lbs. / 14kg

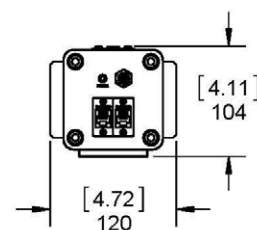
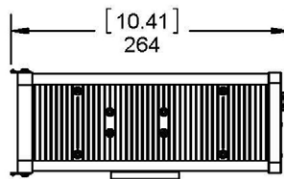
MINIMUM HEIGHT  
17.91"/45.5 cm

MAXIMUM HEIGHT  
64.37" /163.5 cm

FOLDED LENGTH  
23.82" /60.5 cm

WEIGHT  
4.3 Lbs. /1.95Kg

**DIMENSIONS**



## SAFE-FIRE GROUP

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