

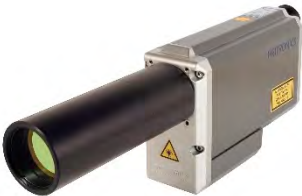


# Infrared Calibration Equipment

## Performance & Features summary

- **Transfer Radiation Thermometers ; -50 to 3000 °C**  
Typical spectral ranges... 8-14µm and/or 3.9µm, 1µm, 1.6µm  
NETD to as low as ~ 20 - 30mK  
Uncertainty to as low as ~70mK for  $k=2$  ( 35mK for  $k=1$ )
- **Blackbody Radiation Sources ; -20 to 1000 °C**  
Cavity diameter up to 60mm  
Emissivity as high as  $0.9994 \pm 0.0002$   
Cavity Uniformity & Uncertainty as low as  $\leq 0.11$  °C



**HEITRONICS Transfer Radiation Thermometers are used by National Laboratories ; National Certifying / Underwriting Labs ; Independent Metrology Labs ; Government Research & Military Labs ; Manufacturers of Thermal Imaging Cameras, Infrared Thermometers & Blackbodies ; End User Cal Labs as well as the HEITRONICS laboratory.**

<u>Primary Transfer Standards</u>		<u>Spectral Range</u>	<u>Temperature Range °C</u>
	TRTIV.82	8 to 14µm	-50 to 1000 °C ( std.) options as wide as 0 to 2500 °C
	TRTIV.41	3.9µm	150 to 1000 °C ( std.) options as wide as 150 to 1800...2500 °C
 ( TRT Qualified Version )	TRTII	8 to 14µm + 3.9µm	-50 to 2000 °C (with options)
	CT18.04	1.6µm	200 to 2900 °C
	CT18.03	1µm	450 to 3000 °C
<u>Secondary Transfer Standards</u>			
 16 other spectral ranges available	KT19.82	8 to 14µm	-50 to 1000 °C ( std.) options as wide as 0 to 2500 °C
	KT19.41	3.9µm	150 to 1000 °C ( std.) options as wide as 150 to 1800...2500 °C

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**ME30**  
 -20.0 to 350.0 °C  
 E = 0.9994  
 60mm diameter cavity  
 Silicone Fluid Bath design



**SW40**  
 -20.0 to 110 °C  
 E = 0.995  
 40mm diameter cavity



**SW10**  
 50.0 to 400.0 °C  
 E ≥ 0.99  
 25mm diameter cavity



**SW11**  
 350 to 1000 °C  
 E = 0.992 - 0.999  
 25mm diameter cavity



**SW15**  
 Portable Battery Powered or  
 24VDC Power Supply  
 Fixed Single Point  
 60 °C or 80 °C or 100 °C  
 E ≥ 0.996  
 20mm diameter cavity