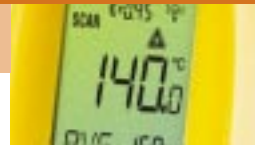
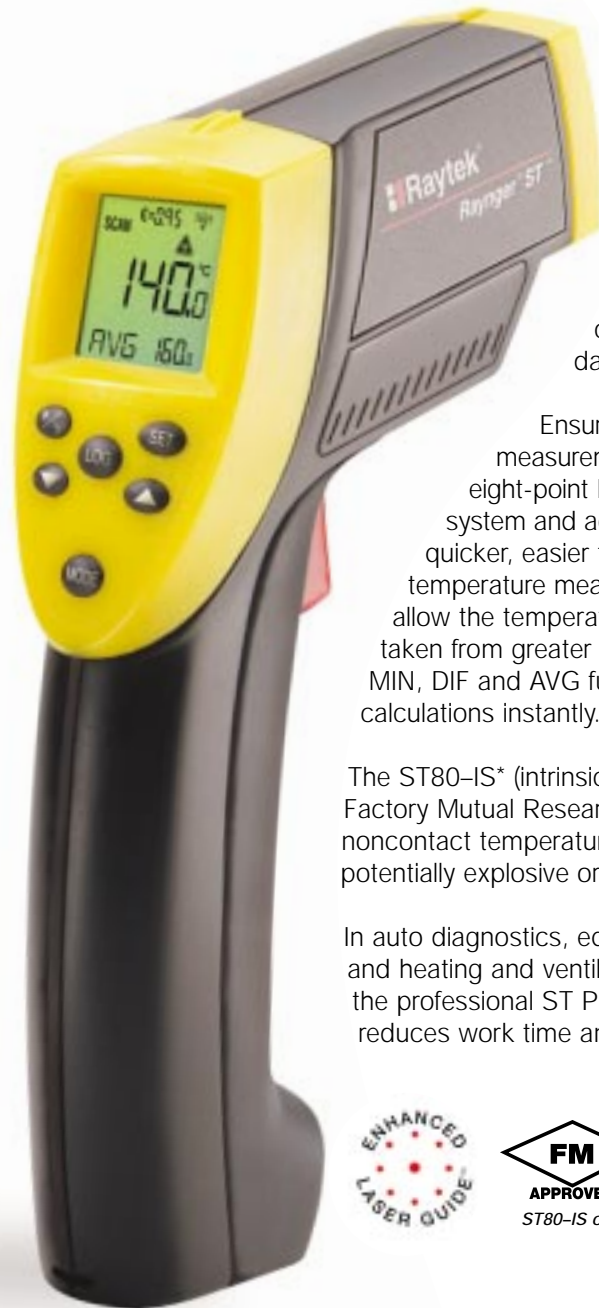


ST™ ProPlus

Portable Infrared Thermometer



Noncontact Temperature Measurement



ST ProPlus Thermometer— The Professional's Advantage

Professionals use the Raytek ST infrared (IR) thermometer to locate and diagnose potential problems by measuring surface temperature. ST ProPlus thermometers measure higher temperatures, smaller objects, and feature a variety of conveniences such as alarms, adjustable emissivity, and data logging capabilities.

Ensure precise temperature measurements with the enhanced eight-point Laser Guide™ sighting system and adjustable emissivity permitting quicker, easier targeting, and more accurate temperature measurements. Advanced optics allow the temperature of smaller objects to be taken from greater distances. Selectable MAX, MIN, DIF and AVG functions perform calculations instantly.

The ST80-IS* (intrinsically safe approved by Factory Mutual Research) model is available for noncontact temperature monitoring needs in potentially explosive or flammable environments.

In auto diagnostics, equipment maintenance and heating and ventilation troubleshooting, the professional ST ProPlus thermometer reduces work time and improves performance.

- Simple to use
- 1% accuracy
- Adjustable emissivity
- Laser Guide™ sighting
- 12-point data logging
- Hi/Lo Alarm
- MAX, MIN, DIF and AVG temperature display
- Large, easy to read display with 7-second hold
- Intrinsically Safe model available (ST80-IS)*

* Rated by Factory Mutual Research for use in hazardous locations

The ST80-IS approval does not apply to atmospheres containing coal dust, grain dust, metal dust, or fibers.



Raytek®

Specifications	ST60	ST80/ST80-IS*
Temperature Range	-32 to 600°C (-25 to 1100°F)	-32 to 760°C (-25 to 1400°F)
Accuracy (Assumes ambient operating temperature of 23°C [73°F])	For targets at -32 to -26°C (-25 to -15°F): ±3°C (±5°F) For targets at -26 to -18°C (-15 to 0°F): ±2.5°C (±4°F) For targets at -18 to 23°C (0 to 73°F): ±2°C (±3°F) For targets above 23°C (73°F): ±1% of reading or ±1°C (±2°F), whichever is greater	
Repeatability	±0.5% or ≤ ±1°C (±2°F), whichever is greater	
Response Time	≤ 0.5 second (95% of reading)	
Spectral Response	8-14μm	
Emissivity**	Digitally Adjustable Emissivity (from 0.1 to 1.0 by 0.01)	
Ambient Operating Temp.	0 to 50°C (32 to 120°F)	
Relative Humidity	10-90% RH noncondensing, at <30°C (86°F) ambient	
Storage Temperature	-20 to 60°C (-13 to 158°F) without battery	
Weight/Dimensions	320g (11oz) 200 x 160 x 55mm (8 x 6 x 2 in)	
Power	9V Alkaline or NiCd Battery	
Battery Life (Alkaline)	20 hrs w/laser & backlight on 50% 40 hours w/laser & backlight off	
Laser Sighting (Class II)	Offset 8-point circular Laser Guide	
Typical Distance to Target	5m (15 ft)	8m (25 ft)
Distance to Spot (D:S)	30:1 at focus point	50:1 at focus point
MIN,MAX AVG, DIF Temp. Display	✓	
Data Logging	12 points	
Probe Jack	✓	
Display Hold (7 seconds)	✓	
Hi/Low Alarm	✓	
LCD Backlit	✓	
Temperature Display	°C or °F selectable	
Display Resolution	0.1°C (0.1°F)	
Hard Carrying Case	✓	
Locking Trigger	✓	
Tripod Mounting	6.35mm (1/4 in) 20 UNC threading	

* Approved by Factory Mutual Research for use in hazardous locations

** For more details, visit www.raytek.com/emissivity.htm

Worldwide Headquarters

Raytek Corporation
1201 Shaffer Rd. PO Box 1820
Santa Cruz, CA 95061-1820 USA
Tel: 1 800 866 5478
1 831 458 1110
Fax: 1 831 425 4561
solutions@raytek.com

Raytek de Mexico, S.A. de C.V.

Puebla, Pue. Mexico
Tel: 52 222 230 4380
Fax: 52 222 230 4438
ventas@raytek.com.mx

Raytek China Company

Beijing, China
Tel: 86 10 6439 2255
Fax: 86 10 6437 0285
info@raytek.com.cn

Raytek Japan, Inc.

Osaka, Japan
Tel: 81 6 4390 5015
Fax: 81 6 4390 5016
info@raytekjapan.co.jp

South American Headquarters

Raytek do Brasil
Sorocaba, SP Brasil
Tel: 55 15 32176046
Fax: 55 15 32175694
raytek@raytek.com.br

European Headquarters

Raytek GmbH
Berlin, Germany
Tel: 49 30 4 78 00 80
Fax: 49 30 4 71 02 51
raytek@raytek.de

Raytek UK Ltd.

Milton Keynes, United Kingdom
Tel: 44 1908 630800
Fax: 44 1908 630900
ukinfo@raytek.com

Raytek France

Palaiseau, France
Tel: 33 1 64 53 15 40
Fax: 33 1 64 53 15 44
info@raytek.fr

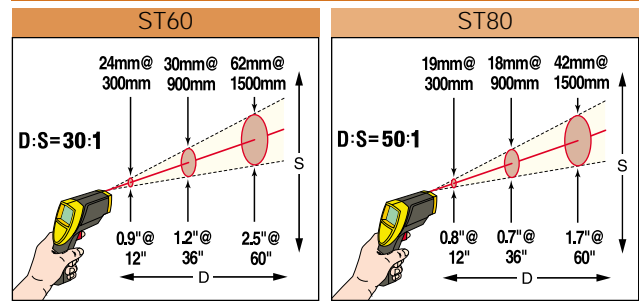
Worldwide Service

Raytek offers services including emergency repairs and calibration. For more information, contact your local office or e-mail: support@raytek.com



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Optical Resolution

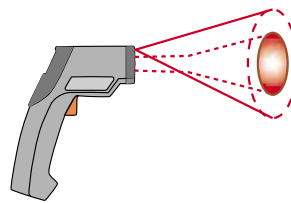


The ST60 is ideally used within 5m (15 feet) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 30).

The ST80/ST80-IS models are ideally used within 8m (25 feet) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 50).

Laser Sighting

STProPlus thermometers features have offset 8-point circular Laser Guides™ that highlight the approximate measurement area.



Options/Accessories

RTD Temp. Probe (standard w/ST80-IS)

-32 to 260°C (-25 to 500°F)

Nylon Holster

NIST/DKD Calibration Certificate

Factory Mutual Research Intrinsically Safe Rated ST80-IS, including probe (Intrinsically Safe, Class I Division 1 Groups A,B,C,D Class I, Zone 0, AEx ia IIC, T4 at 50°C when used with 9V alkaline battery)

www.raytek.com

for up-to-the-minute features

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