# 非接觸式紅外線測溫器 ST 系列

-32℃至 400℃
-32℃至 540℃
-32℃至 600℃
-32℃至 760℃

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

| 型號 | ST20 | ST30 | ST60 | ST80 |
|---|---|---|---|---|
| 測溫範圍 | -32℃~400℃ | -32℃~545℃ | -32℃~600℃ | -32℃~760℃ |
| 距離與量測點比 | D:S=12:1 | | D:S=30:1 | D:S=50:1 |
| 放射率 | 固定 0.95 | | 0.10 至 1.00 可調 | |
| 雷射光點(1:2) | 單點 | 圓環型 | 圓環型 | 圓環型 |
| 最後測量溫度 | v | v | v | v |
| 溫度顯示 | 即時，最高溫度 | | 即時，最高，最低，高低溫差，平均 | |
| LCD 背光 | v | v | v | v |
| 顯示保留（7 秒） | v | v | v | v |
| 高/低響報裝置 | | | v | v |
| 12 點記憶值 | | | v | v |
| 外接 RTD | | | v | v |
| 溫度解析度 | 0.2℃或 0.5℉ | | 0.1℃或 0.5℉ | |
| 精確度 | ±1%或±1℃ | | | |
| 重覆性 | ±0.5%或±1℃ | | | |
| 反應時間 | 0.5 秒（95%讀值） | | | |
| 頻譜反應 | 8 至 14 微米（㎜） | | | |
| 操作溫度 | 0 至 50℃ | | | |
| 相對濕度 | 10 至 95%RH | | | |
| 重量/尺寸 | 320g/200x160x55㎜ | | | |

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# STPro™

## Portable Infrared Thermometer

## Noncontact Temperature Measurement

### The ST Pro Thermometer—The Professional's Rugged Diagnostic Tool.

Professionals diagnose car malfunctions, research heating and ventilation problems, and monitor electrical motor performance safely and easily with the professional Raytek STPro thermometer. Handheld, and portable, Raytek STPro infrared thermometers stand up to the day-to-day usage professionals require of their equipment.

- 1% accuracy
- Laser Point™ sighting (ST20)
- Laser Guide™ sighting (ST30)
- Temperatures up to 535ºC/999ºF (ST30)
- MAX temperature display

The STPro series leaps ahead of standard entry level models by providing expanded temperature ranges, higher resolution optics, tighter accuracy and laser sighting choices. The single dot Laser Point™ (ST20) or the eight-point Laser Guide™ sighting systems guide measurements to the right target. In less than a second, the large temperature display provides current and MAX surface temperatures. For continous temperature monitoring, professionals use the STPro locking trigger and tripod mount capability.

For auto diagnostics, equipment maintenance, and heating and ventilation troubleshooting, the professional STPro thermometer makes troubleshooting quick and easy.

ENHANCED LASER GUIDE

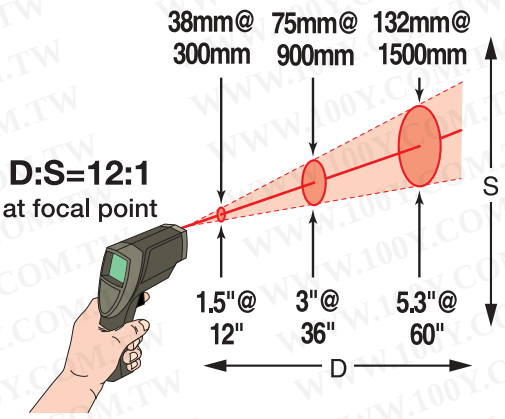
*Model ST30*

Raytek®

| Specifications | ST20 | ST30 |
|---|---|---|
| Temperature Range | -32°C to 400°C (-25°F to 750°F) | -32°C to 535°C (-25°F to 999°F) |
| Accuracy (Assumes ambient operating temperature of 23°C [73°F]) | -32°C to -26°C (-25°F to -15°F): ±3°C (±5°F)<br>-26°C to -18°C (-15°F to 0°F): ±2.5°C (±4°F)<br>-18°C to 23°C (0°F to 73°F): ±2°C (±3°F)<br>23°C to 510°C (73°F to 950°F): ±1% of reading or ±1°C (±2°F), whichever is greater<br>Above 510°C (950°F): ±1.5% of reading | |
| Repeatability | ±0.5% or ≤ ±1°C (±2°F), whichever is greater | |
| Response Time | ≤ 0.5 second (95% of reading) | |
| Spectral Response | 8-14µm | |
| Emissivity* | Pre-set at 0.95 | |
| Ambient Operating Temp. | 0°C to 50°C (32°F to 120°F) | |
| Relative Humidity | 10-90% | |
| Storage Temperature | -20°C to 60°C (-13°F to 158°F) without battery | |
| Weight/Dimensions | 320g (11oz)<br>200 x 160 x 55mm (8 x 6 x 2 in) | |
| Power | 9V Alkaline or NiCd Battery | |
| Battery Life (Alkaline) | 10 hrs w/laser & backlight on<br>20 hrs w/laser & backlight off | |
| Laser (Class II) | Offset single point Laser Point | Offset 8-point circular Laser Guide |
| Typical Distance to Target | Up to 2m (6 ft) | |
| Distance to Spot (D:S) | 12:1 at focus point | |
| MAX Temp. Display | ✓ | |
| Display Hold (7 seconds) | ✓ | |
| LCD Backlit | ✓ | |
| Temperature Display | °C or °F selectable | |
| Display Resolution | 0.2°C (0.5°F) | |
| Hard Carrying Case | ✓ | |
| Tripod Mounting | ✓ | |
| Warranty* | 1 year | |
| Additional Options/Accessories | Nylon Holster<br>NIST/DKD Traceable Calibration Certificate (includes 1 year warranty) | |

** US only. Warranty duration may vary by country.*

# Optical Resolution

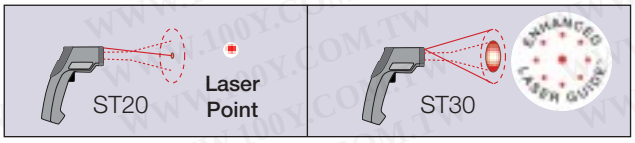



Use the ST20 and ST30 within six feet of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by twelve).

*D:S (distance to spot using 90% encircled energy at focal point*

# Laser Sighting

The ST20 offset single-point Laser Point™ indicates the approximate center of the measurement area; the ST30 offset 8-point circular Laser Guide™ highlights the approximate measurement area.




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

Raytek is an ISO 9001 certified company

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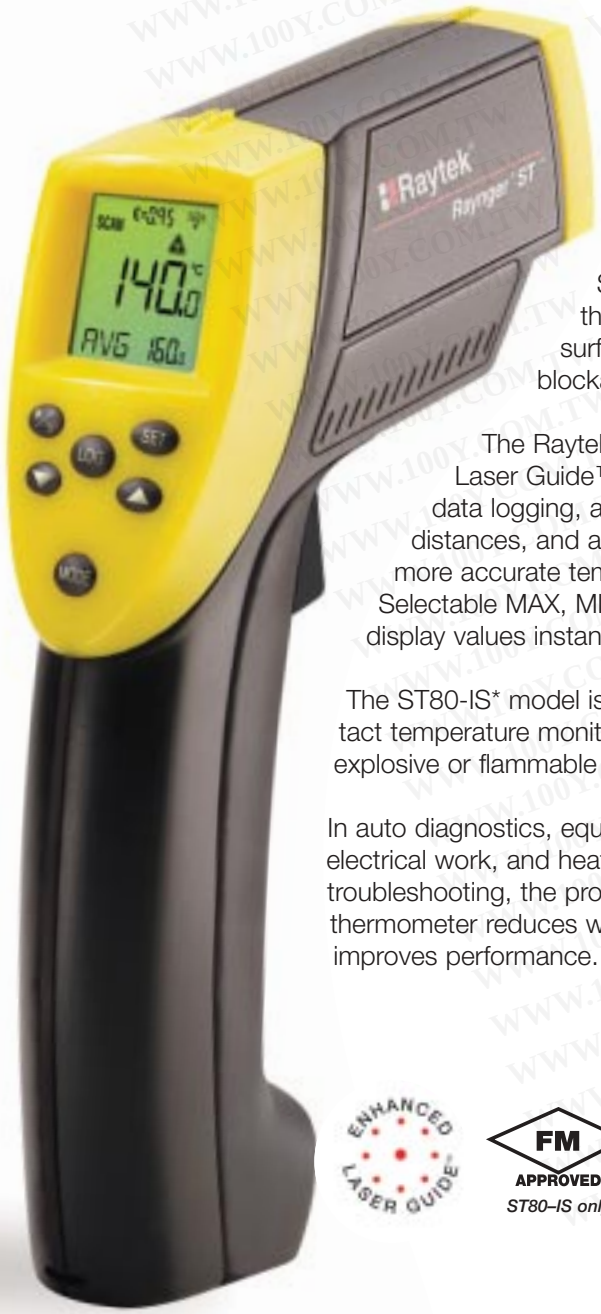
# STProPlus™

## Portable Infrared Thermometer

## Noncontact Temperature Measurement




### ST ProPlus Thermometer—The Professional's Advantage

Auto mechanics diagnose catalytic converters, HVAC technicians perform room balance checks, and electricians evaluate electrical connections - all with one great tool: the Raytek STProPlus™ noncontact thermometer. Handheld and portable, the Raytek STProPlus IR (infrared) thermometer measures surface temperatures, helping to quickly locate potential blockages or malfunctioning systems.

The Raytek STProPlus thermometer features the enhanced eight-point Laser Guide™ sighting system for easy targeting, in addition to 12-point data logging, advanced optics to measure smaller targets at greater distances, and adjustable emissivity for more accurate temperature measurements. Selectable MAX, MIN, DIF and AVG functions display values instantly.

The ST80-IS* model is available for the noncontact temperature monitoring needs of potentially explosive or flammable environments.

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

- 1% accuracy
- Laser Guide™ sighting
- Adjustable emissivity
- Temperatures up to 760ºC (1400ºF) ST80/ST80IS
- Hi/Lo Alarm
- MAX, MIN, DIF and AVG temperature display
- 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.*

ENHANCED LASER GUIDE

FM APPROVED
*ST80–IS only*

勝特力科技 886-3-5753170
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Http://www.100y.com.tw

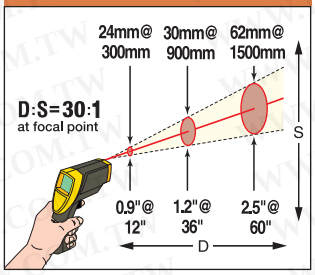
Raytek®

| 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]) | -32 to -26°C (-25 to -15°F): ±3°C (±5°F)<br>-26 to -18°C (-15 to 0°F): ±2.5°C (±4°F)<br>-18 to 23°C (0 to 73°F): ±2°C (±3°F)<br>For targets above 23 (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)<br>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%<br>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*

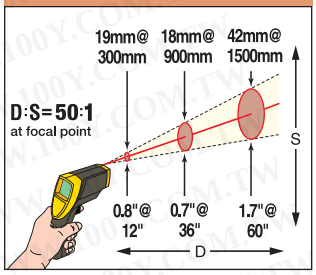
# Optical Resolution

ST60




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

ST80

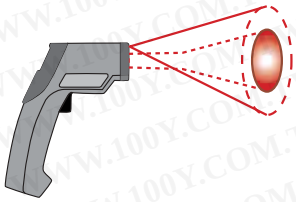



Use the ST80/ST80-IS within 8m (25 feet) of the intended target. At greater distances, the measured area will be larger (approximately the distance divided by 50).

*D:S (distance to spot using 90% encircled energy at focal point*

# Laser Sighting

The STProPlus thermometer's offset 8-point circular Laser Guides highlight the approximate measurement area.



ENHANCED LASER GUIDE

- 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 aklaline battery)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