

ST XB Pro & ProPlus

Portable Infrared Thermometer



Noncontact Temperature Measurement



ST XB Thermometers— Rugged Diagnostic Tools for Professionals

Professionals use Raytek ST XB infrared (IR) thermometers to locate and diagnose potential problems by measuring surface temperature. Changes in temperature can be found easily and safely with IR thermometers.

Simply point, shoot and read. In less than a second, the large temperature display shows the current and MAX*, MIN, AVG, and DIF surface temperatures taken during scans. Laser sighting helps to indicate the target area.

- Simple to use
- Rugged construction
- High accuracy
- Instant readings
- Extra Bright Laser Point sighting
- Temperatures up to 760°C (depends on the model)
- Large, easy to read display
- Data logging (depends on the model)

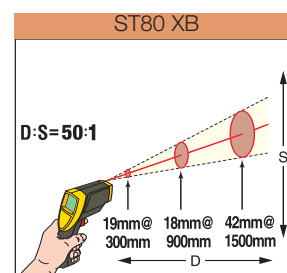
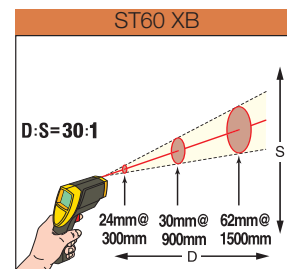
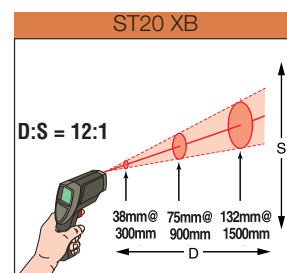
For industrial and electrical maintenance, or heating and ventilation monitoring, dependable ST thermometers make troubleshooting routine.

* ST Pro 20 TD displays only current and MAX temperature

Raytek[®]
A Fluke Company

Specifications	ST20 XB	ST60 XB	ST80 XB
Temperature Range	-32 ... 535°C	-32 ... 600°C	-32 ... 760°C
Accuracy (assumes ambient operating temperature of 23°C, ±5K)	For targets at -32 to -26°C : ±3°C For targets at -26 to -18°C: ±2.5°C For targets at -18 to 23°C: ±2°C For targets above 23°C: ±1% of reading or ±1°C, whichever is greater		
Repeatability	±0.5% or ±1°C, whichever is greater		
Response Time	≤ 0.5 second (95% of reading)		
Spectral Response	8-14 μm		
Emissivity	Pre-set at 0.95	Digitally adjustable emissivity (from 0.1 to 1.0 by 0.01)	
Ambient Operating Temp.	0 ... 50°C		
Relative Humidity	10-90%, non condensed at 30°C		
Storage Temperature	-20 to 60°C without battery		
Weight	320 g		
Dimensions	200 x 160 x 55 mm		
Power	9V Alkaline or NiCd Battery		
Battery Life (Alkaline)	20 hrs w/laser & backlight on 50% 40 hrs w/laser & backlight off		
Laser (Class II)	Offset single-point laser "Extra Bright" (XB)		
Typical Distance to Target	2 m	5 m	8 m
Distance to Spot (D:S)	12:1	30:1	50:1
MIN,MAX AVG, DIF Temp. Display	MAX only	all Values	
Data Logging	no	12 points	
Data Logging	no	yes	
Display Hold (7 seconds)	7 sec		
Hi/Low Alarm	no	yes	
LCD Backlit	yes		
Temperature Display	°C or °F selectable		
Display Resolution	0.2°C	0.1°C	
Hard Carrying Case	yes		
Tripod Mounting	1/4" 20 UNC thread		
Options and Accessories	Nylon Holster • NIST/DKD Calibration Certificate • RTD Temp. Probe (ST 60 XB und ST 80 XB only)		

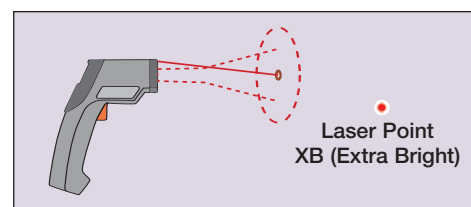
Optical Resolution



Optical resolution refers to the relationship between the measurement distance (D) to the diameter (S) of the measurement spot. In general, the greater the measurement distance to the target, the larger the diameter of the measurement spot.

Laser Sighting

The ST20 XB offset single-point laser indicates the approximate center of the measurement area. The laser is bright enough to indicate the target from optical distances.



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 China Company
info@raytek.com.cn

Raytek Japan, Inc.
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 8 400
Fax: 49 30 4 71 02 51
info@raytek.de

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

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



© 2004 Raytek (56001 Rev. F) 10/2004
Specifications subject to change without notice.
Raytek and the Raytek logo are registered trademarks, and
ST, STProPlus, and Laser Guide are trademarks of
Raytek Corp.
Raytek is ISO 9001 : 2003 certified.

www.raytek.com

for up-to-the-minute features