

# IRtec P 510G

Documenting Portable Infrared Thermometers  
Glass Specialized Applications



## INFRARED THERMOMETERS

- ▶ Temperature Range 150 to 1300°C
- ▶ Rugged with Protective Rubber Holster
- ▶ Optical Resolution 30:1
- ▶ 5.1  $\mu\text{m}$  Spectral Response **NEW**
- ▶ TTS Dual Laser, Telescope or Red Point Target Pinpointing
- ▶ Dual Optics Close / Standard Focus Switchable **NEW**
- ▶ Large LCD Display with Automatic Backlight
- ▶ Up to 50 Preset Common Material Emissivity Values
- ▶ TC's type K's Input for Automatic Emissivity Setting
- ▶ Powered by Li-ION Rechargeable Battery **NEW**
- ▶ USB Interfacen and IRLogMan 2007 Software **NEW**
- ▶ Data Memory Grouped by Tag (500 Records)
- ▶ External IR printer **NEW**
- ▶ Traceable Report of Calibration



All descriptions are related to a fully optioned instrument. See last page for the different configurations.

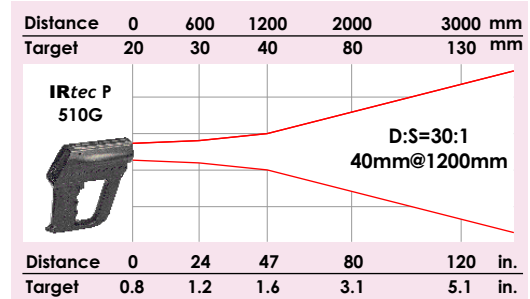
**Technical Specification**

<b>Temperature measuring range</b>	150 to 1300°C 300 to 2370°F
<b>Spectral response</b>	5.1 µm
<b>Target spot size @ distance</b>	SF 40mm@1200mm
Nominal target @ 90% of energy	CF 2mm@60mm
<b>D:S target sighting ratio</b>	SF 30:1
<b>Accuracy IR</b>	±0.75% of rdg or ±0.75°C
<b>Repeatability IR</b>	±0.5% of rdg or ±0.5°C
<b>Temperature stability IR</b>	±0.01% f.s./°C (for the band exceeding +18°C to +28°C)
<b>Measurement sampling time</b>	<150 ms
<b>Emissivity</b>	Adjustable from 0.10 to 1.00 - Downloadable material emissivity table
<b>Thermocouple measuring ranges</b>	type K from -100°C to +1370°C - 0.1°C resolution type S from 0°C to +1760°C - 0.1°C resolution
<b>Thermocouple accuracy</b>	type K ±(0.05% of reading + 0.4°C) type S ±(0.05% of reading + 2.5°C)
<b>Display</b>	High contrast custom LCD with automatic backlight device
<b>Display resolution</b>	1°C / °F / K (0.1°C / 0.1°F in AVG mode up to 200°C)
<b>Laser</b>	Dual TTS
<b>Digital interface</b>	USB serial port / IR printer port
<b>Calculated functions</b>	average, max, min, diff, ambient temperature compensation
<b>Data memory</b>	500 input data structured by Tag (max. 20 Tag)
<b>Power supply</b>	Rechargeable Li-ION battery pack
<b>Battery life</b>	>20 h (backlight off)
<b>Line operation</b>	100, 115, 230V ±10% 50/60 Hz using the external charger
<b>Battery recharging time</b>	6 h at 90% (instrument switched off)
<b>Operating temperature range</b>	from -10°C to +60°C
<b>Storage temperature range</b>	from -10°C to +60°C
<b>Case</b>	Injection moulded ABS+ polycarbonate with protective rubber

**Ordering Code**

Each instrument includes: battery line charger, IRLogMan 2007 software, USB cable, Vinyl case, Instruction manual and E Instruments report of calibration.

<b>Table A Model</b>	<b>Range</b>
1193	<b>IRtec P 510G</b> from 150°C to +1300°C (300°F to +2370°F)
<b>Table B Optic</b>	
SF	Standard focus with twin Red Dual TTS
<b>Table C Batteries / Line Charger</b>	
USA	Li-Ion / 120 Vac with USA plug
SCK	Li-Ion / 230 Vac with Schuko plug
UK	Li-Ion / 230 Vac with UK plug
EUR	Li-Ion / 230 Vac with European plug
JAP	Li-Ion / 100 Vac with USA/Japan plug
<b>Table D Accessories</b>	
NO	None
TELE	Sighting telescope pinpointing system
RED	Red point system
<b>Table E Report of Calibration</b>	
EC	E Instruments certificate
1193 - SFG - EUR - TELE - EC Typical ordering code	



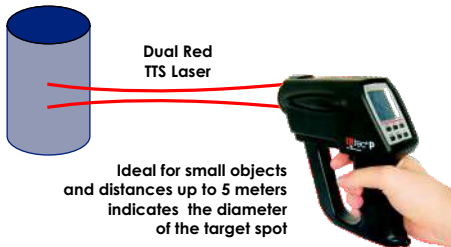
\* Nominal target @ 90% of energy

**Applications**
**Glass**

**Infrared Thermal Printer**

The standard infrared port, allows the operator to print a complete measure report (temperature, date and time, instrument model and serial number. 4 different forms are standard included for single measure, datalogging tag information printout.

**Dual Optic**

 The **IRtec P510G** can be used both as a standard focus and a close focus infrared thermometer. Rotating the lens, the instrument change the optic and the dual laser change the inclination to the new focus point.

**Accessories**

- EE490012 IR Thermal Printer
- EE340009 10 Rolls Thermal Paper Kit
- EE880026 Aluminium case
- EE880028 Vinyl case
- EE300055 2x telescope
- EE300056 1x "Red point" adapters

**Target Pinpointing**
**TTS - True Target Size**

A dual laser pointer define at different distances the true target dimension. This unique and innovative system go over the limits of the old crossed laser pointer based system. TTS really guarantees the measuring of the true area diameter along all the optical path.