*IR*tech Pro 1100 1330 1550 2200 2000MM

Advanced Portable Infrared Thermometers for demanding Industrial applications

IRtech
Infrared Technology

- Temperature range up to 2000°C
- Optical resolution up to 300:1
  8-14μm, 1μm, 1.6μm, 2.3μm
  Spectral response
- Dual laser pointer
- Telescope sighting
- Large LCD display
  3 colors backlight
- Emissivity settings
- Rechargeable batteries
- USB interface with
  IR Portable Windows software
- Datalogger up to 2000 measures
- Max, Min, Alarms audible features
- Special Version 2000MM
  for Molten Metal at 0,525 μm
  reduce error for emissivity changes
  and vapour.

CE

Each body, at temperatures above the absolute zero (-273°C or 0K),emits energy as electromagnetic radiation. When temperature rises,the intensity of this infrared energy increases.The temperature of the body surface can therefore be determined by measuring the intensity of this energy in a small spectral band: the infrared region. The instruments used to measure this energy and to calculate the related temperature are called infrared thermometers or non-contact thermometers.

Temperature measurements of a liquid or gaseous compound have been successfully made with thermoelectric or expansion thermometers, thanks to the good thermal exchange of the sensor with the fluid. With solid bodies, a good thermal exchange is difficult to be obtained and an additional measuring error should be considered. When the target is moving or is electrically hazardous, a contact temperature measurement can't be made. Non-contact IR temperature measurement could be the only solution to the above application problems.

Typical application of **IR*tech*** portable thermometers is to control temperature where an increase of its value means a possible machine wearing, aging, faulting, etc.

www.irtec.it

Features are related to all models equipped with full configuration. On next pages you can find specific details.

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Models

Models	Pro 1100	Pro 1330	Pro 1550	Pro 2200	Pro 2000MM
Temperature range	0 - 1300 °C	385 - 1600 °C	200 - 1500 °C	650 - 1800 °C	1000 - 2000 °C
Accuracy	±1% or ±2°C *	±(0,3% rdg or±1°C)*	±(0,3%rdg o±1°C)*	±(0,3%rdg o±1°C)*	±(0,3%rdg o±1°C) *
Repeatability	±0,5% or ±1°C *	±(0,1% or ±1°C) *	±(0,1%or±1°C) *	±(0,1%or±1°C) *	±(0,1%or±1°C) *
D:S target ratio	120:1	300:1	300:1	300:1	150:1
Response time	300 mS	100 mS	100 mS	100 mS	100 mS
Spectral response	8-14 µm	1,6 µm	2.3 µm	1 µm	0,525 µm
Laser pointer	double+ sighting scope	double	double	double	double
Focus point	100mm @ 12m	12mm @ 3,6m	3,7mm @ 1,2m	12mm @ 3,6m	24mm @ 3,6m

* whichever is greater

Storage temperature:
-20°C to +60°C (no battery)

Dimensions and weight:
264 mm x 203 mm x 60 mm - 990 g nett

Memory:
2000 measurements

LCD Backlight:
3 colors alarm (normal/high/low)

Varioscope (optional)
Instead standard telescope
Zoom 1-4x
Dot center for aiming

Common specifications

Emissivity:
Pre-set to 0.95.
Adjustable 0.100 - 1.000

Working temperature:
0 to +50°C
10-95% RH non condensing

Digital interface:
USB
(cable and software included)

Battery:
NiMH rechargeable battery

Battery life:
5 hours with laser/backlight on
25 hours without laser and backlight

Laser:
Class II (<1mW)

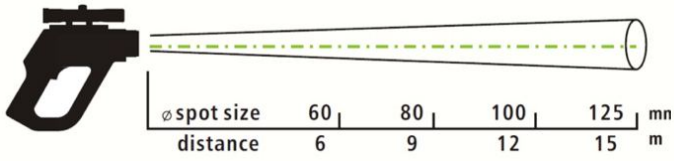
Sighting scope:
Adjustable standard with Filter

Functions:
Max, Min and Scan/Hold

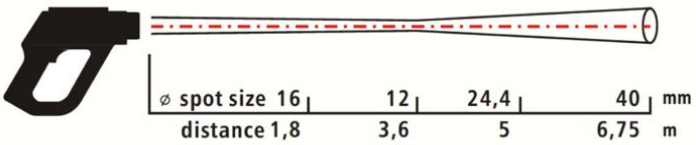
Alarms:
High and Low with audible and visible

Optical specifications

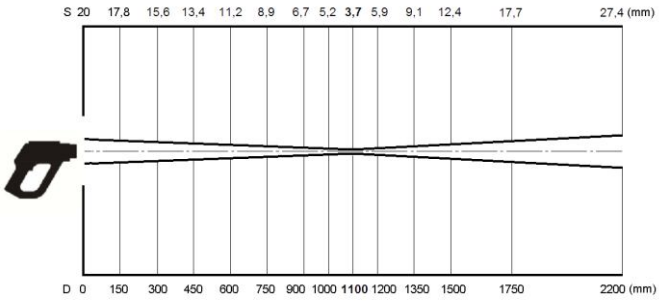
Pro 1100 D:S = 120:1



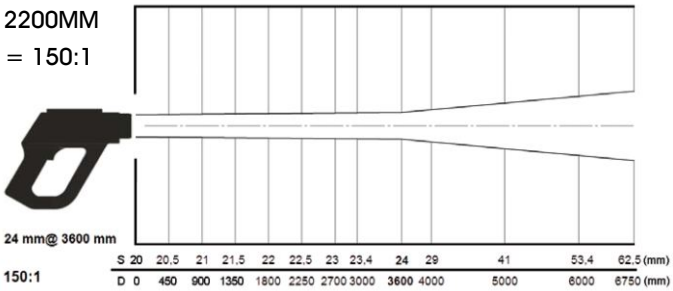
Pro 1330
Pro 2220
D:S = 300:1



Pro 1550 D:S = 300:1

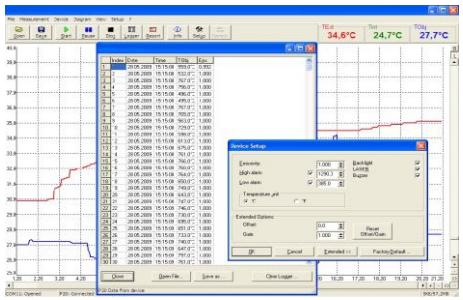


Pro 2200MM
D:S = 150:1

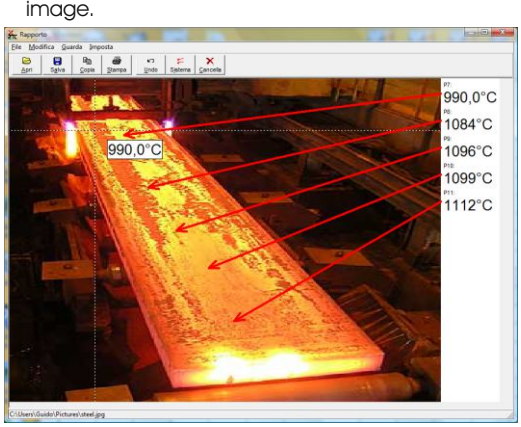


IR Portable Windows Software

Auditors require the collection, organization and availability of traceability documents. Dedicated input data are memory stored and downloaded to a PC to document the inspection activity. Data can be saved on disks, viewed and printed in a numeric or graphic mode. The real time datalogging work at 20 reading per second.



Reporting capability. Import picture of the process. Connect the instrument on line with USB, point andapply measurement directly on image.



Ordering Code

	Code	Model
Pro		*IRtech Pro* includes rigid carrying case,telescope USB cable, Software, Charger & instruction manual
	Table A	**Range**
	1100	0 to 1300°C
	1330	385 to 1600°C
	1550	200 to 1500°C
	2200	650 to 1800°C
	2000MM	1000 to 2000°C
	Table B	**Charger / Telescope**
	220V	220V charger with European plug
	Z	Varioscope (instead standard)
	Table C	**Report of Calibration**
	0	none
	CC	EA traceable with data

Pro 1100 - 220 - 0 *Typical ordering code*

Specifications may change without notice