

Common Specifications

Spectral Response: 8-14 μm

Display Resolution:

PRO/PRO+/PRO++: 0.1°C up to 199.9°C. 1°C otherwise.

PRO/PRO+: 0.2°C from -30 to 0°C

Xtreme: 0.1°C

Response Time: 500 ms, 95% response

Emissivity: adjustable from 0.20 to 1.00 (preset on 0.95)

Auto Power Off: Automatic after 30 sec of no operation.

Accuracy IR Channel:

PRO: from 0°C to 70°C : $\pm 1^\circ\text{C}$

PRO: from 70°C to f.s. : $\pm 1.5\%$ of the reading or $\pm 1.5^\circ\text{C}$

Xtreme: from 0°C to f.s. : $\pm 1\%$ of the reading or $\pm 1^\circ\text{C}$

All models: from -30°C to 0°C : $\pm (1^\circ\text{C} + 0.07^\circ\text{C}/^\circ\text{C})$

Repeatability IR Channel: $\pm 0.5\%$ of the reading or $\pm 0.7^\circ\text{C}$ from 0°C

External Channel: Resistance high accuracy platinum Pt1000

External Channel Range: from -30°C to 500°C

External Channel Accuracy: 0.2% of reading or 0.2°C

Power Supply: 9V alkaline or optional rechargeable battery kit

Battery Life: 40 h (back light and laser Off) - 20 h (On)

Operative Temperature: 0 to +50°C

10-95% RH non condensing up to 30°C

Storage Temperature: -20°C to +60°C without battery

Tripod mounting: 6.35 mm (1/4") 20 UNC threading

Dimensions - Weight: 140x90x38 mm - 165g nett

Typical Working Distance (General information. No restriction for longer distance):

Optics 15:1 up to 2.5m, Optics 20:1 up to 3.5m, Optics 35:1 up to 5m,

Optics 50:1 up to 8m.

IR Logman 2006 Software

Logman Software is compatible with Windows 98/XP and can download data with USB cable. The USB port is available only on MicroRay Xtreme. You can download up to 64 tests or run on-line logging storing data directly on PC. You can view, print, graph and export an Excel file.

Accessories

EE880075	Rigid ABS case
EE880070	Soft pouch with belt clip
EE880069	Soft Vinyl case
EE420375	USB cable + IR Logman 2006 Windows™ software

Built-in 65 mm Compact Probe

F2125000 Penetration tip

Built-in 125 mm Probe

F2123000 Penetration tip

F2124000 Immersion tip

F2122000 Ambient Air tip

Remote 125mm Probe with 1m Wire Extension

F2126000 Penetration tip

F2127000 Contact spring loaded tip

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IRtec MicroRay PRO™

IRtec MicroRay Xtreme™

**The New Innovative Compact
Low Cost Professional Infrared Thermometer**



*Professional for Industrial
Applications, Affordable for
Domestic Use!*

MicroRay PRO

- -30° to +500°C
- Optics 15:1

MicroRay Xtreme++

- -30° to +1000°C
- Optics 50:1
- TTA True Target Aiming
- Internal Memory
- Real Time Clock
- USB Cable and Windows™ Software

- Comfortable: Pistol Grip
- Easy to Use:
Just a "Click" to Measure
- Quick: Immediate Response
- Laser Sighting: Ultra Sharp
- Display: Large Backlight LCD
- Built-in Contact Probe
- Emissivity: Adjustable
(Preset at 0.95)
- Max, Min, Diff Reading
- °C/°F Selectable
- Compact: 140x90x38 mm



All descriptions are related to full options instrument. See following pages for the different configurations and models

**The
Smart Choice**

**For detailed information
please visit our web site:**

**Made in
ITALY**

www.eurotron.com



IRtec MicroRay PRO

The MicroRay PRO infrared (IR) thermometer is the ideal tool to diagnose, inspect, and check the performance of any critical temperatures for your applications. With the advantage of using non contact technology you can measure a moving, obstructed, or heated object very easily and at a comfortable distance. It is the perfect tool for an endless number of processes & applications, whether in your home, garage, workshop, office, automobile, kitchen, and so much more.

IRtec MicroRay
Measuring Range
Optics
Laser Sighting
Accuracy*
Contact Probe Socket
Emissivity

PRO

-30 to 500°C
 15:1
 Standard
 $\pm 1.5\% \text{rdg}$ or $\pm 1.5^\circ\text{C}$
 None
 Preset 0.95
 Adj 0.20/1.00
 Standard
 Visual
 Standard
 Last reading

PRO+

-30 to 500°C
 15:1
 Standard
 $\pm 1.5\% \text{rdg}$ or $\pm 1.5^\circ\text{C}$
 Standard
 Preset 0.95
 Adj 0.20/1.00
 Standard
 Visual
 Standard
 Last reading

PRO++

-30 to 600°C
 20:1
 Standard
 $\pm 1.5\% \text{rdg}$ or $\pm 1.5^\circ\text{C}$
 Standard
 Preset 0.95
 Adj 0.20/1.00
 Standard
 Visual+Audible
 Standard
 Last reading

MAX/MIN/DIF
Hi/Low Alarms
Display Backlight
HOLD

* extended accuracy declaration and additional parameters in last page.

Built-In Contact Probe - RTD

The MicroRay PRO +, PRO++, and all Xtreme models are equipped with a connector for contact measurement. The available temperature probes include a Contact, Immersion, Penetration, & Ambient Air. One compact probe can actually be stored inside the unit for easy access. Longer probes are available if needed and provided with a wire connection. See last page for details.

Laser Sighting - US Ultra Sharp

All MicroRay models are equipped with a Class II Laser for aiming purposes. The offset laser sighting will allow you to identify the approx. center of the target being measured. The Ultra Sharp definition of laser makes it easy to read outdoors as well.

9V Battery

Easily replaceable standard 9V battery is provided with the unit. A kit is also available for rechargeable battery and external charger.

Tripod mounting

Standard photographic tripod thread is available for accurate and long term measurements.

Ordering Code

Each Instrument includes a 9V battery and instruction manual.
 Cat.1186-1 MicroRay PRO
 Cat.1186-2 MicroRay PRO+
 Cat.1186-4 MicroRay PRO++



IRtec MicroRay Xtreme

The MicroRay Xtreme is the most advanced compact infrared (IR) thermometer available on the market used to diagnose, inspect, and check the performance of any critical temperatures for your applications. With its superior optics, it allows easy & more accurate measurements of smaller targets at longer distances.

A Built-In interface allows you to connect the unit to any laptop or PC with an optional USB cable to download measurements using LogMan Data Manager Windows Software.

IRtec MicroRay
Measuring Range
Optics
Laser Sighting
Accuracy*
Contact Probe Socket
Emissivity

Xtreme

-30 to 760°C
 35:1
 Standard
 $\pm 1\% \text{rdg}$ or $\pm 1^\circ\text{C}$
 Standard
 Preset 0.95
 Adj 0.20/1.00
 Std
 Visual+Audible
 Standard
 Last reading+
 64 mem+USB
 real-time clock

Xtreme+

-30 to 1000°C
 50:1
 Standard
 $\pm 1\% \text{rdg}$ or $\pm 1^\circ\text{C}$
 Standard
 Preset 0.95
 Adj 0.20/1.00
 Std
 Visual+Audible
 Standard
 Last reading
 64 mem+USB
 real-time clock

Xtreme++

-30 to 1000°C
 50:1
 Standard TTA
 $\pm 1\% \text{rdg}$ or $\pm 1^\circ\text{C}$
 Standard
 Preset 0.95
 Adj 0.20/1.00
 Std
 Visual+Audible
 Standard
 Last reading
 64 mem+USB
 real-time clock

MAX/MIN/DIF/AVG
HI/LO Alarms
Display Backlight
Memory

* extended accuracy declaration and additional parameters in last page.

Emissivity

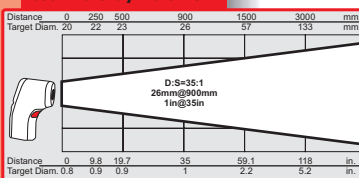
The infrared energy emitted by a surface differs according to its composition and physical condition. The parameter, used to characterize the object surface, is called emissivity. The preset value 0.95 is valid on most common applications with few exception like shiny metals. Emissivity can also be adjusted from 0.2 to 1. You can find some guideline on our web site. On Xtreme models you can adjust emissivity automatically using contact probe.

TTA / True Target Aiming

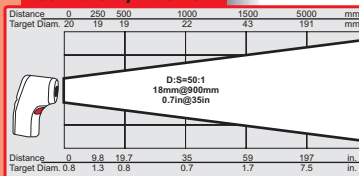
Using the most advanced technology, the MicroRay Xtreme++ has a laser sighting with a reflex system of the beam passing through the center of the lens, which grants the best possible accuracy when aiming at a distance.

Recommended Target Ranges

IRtec Microray Xtreme



IRtec Microray Xtreme+ IRtec Microray Xtreme++



Memory

The MicroRay Xtreme models can store up to 64 test with date & Time using the internal real time clock. Datalogging can be manual or automatic with settable sampling time. A built-in USB interface allows you to connect the unit to any laptop or PC using the optional USB cable and LogMan Data Manager Windows software.

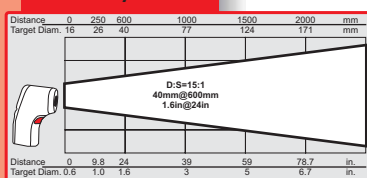
Ordering Code

Each Instrument includes a wrist strap, 9V battery and instruction manual.
 Cat.1188-1 MicroRay Xtreme
 Cat.1188-2 MicroRay Xtreme+
 Cat.1188-4 MicroRay Xtreme++



Recommended Target Ranges

IRtec Microray PRO IRtec Microray PRO+



IRtec Microray PRO++

