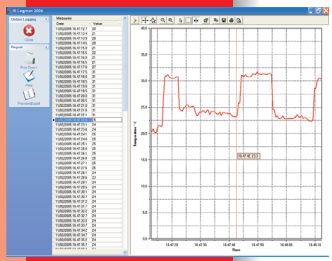
Common Specifications

Spectral Response: 8-14 µm
Display Resolution:
PRO/PRO+/PRO++: 0.1°F up to 199.9°F. 1°F otherwise.
PRO/PRO+: 0.2°F from -22 to 32°F
Xtreme: 0.1°F
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 32°F to 158°F : ±1.8°F
PRO: from 158°C to f.s. : ±1.5% of the reading or ±2.7°F
Xtreme: from 32°C to f.s. : ±1% of the reading or ±1.8°F
All models: from -22°F to 32°F : ±(1.8°F + 0.07°F/°F)
Repeatability IR Channel: ±0.5% of the reading or ±1.3°F from 32°F
External Channel: Resistance high accuracy platinum Pt1000
External Channel Range: from -22°F to 930°F
External Channel Accuracy: 0.2% of reading or 0.36°F
Power Supply: 9V alkaline or optional rechargeable battery kit
Battery Life: 40 h (back light and laser Off) - 20 h (On)
Operative Temperature: 32 to +120°F
10-95% RH non condensing up to 86°F
Storage Temperature: -4 to +150°F without battery
Tripod mounting: 6.35 mm (1/4") 20 UNC threading
Dimensions - Weight: 5.5x3.5x1.5 in (140x90x38 mm) - 6 oz nett
Typical Working Distance (General information. No restriction for longer distance)**:**
Optics 15:1 up to 10ft, Optics 20:1 up to 12ft, Optics 35:1 up to 16ft, Optics 50:1 up to 30ft.



IR Logman 2006 Software

Logman Sofware 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 2.5" Compact Probe	
F2125000	Penetration tip
Built-in 5" Probe	
F2123000	Penetration tip
F2124000	Immersion tip
F2122000	Ambient Air tip
Remote 5" Probe with 3.3ft Wire Extension	
F2126000	Penetration tip
F2127000	Contact spring loaded tip

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Distributed by:

IR*tec* MicroRay PRO™

IR*tec* MicroRay Xtreme™

The New Innovative Compact
Low Cost Professional Infrared Thermometer

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 EU/US

einstrumentsgroup.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	PRO	PRO+	PRO++
Measuring Range	-22 to 930°F	-22 to 930°F	-22 to 1110°F
Optics	15:1	15:1	20:1
Laser Sighting	Standard	Standard	Standard
Accuracy*	±1.5%rdg or±2.7°F	±1.5% rdg or±2.7°F	±1.5% rdg or±2.7°F
Contact Probe Socket	None	Standard	Standard
Emissivity	Preset 0.95 Adj 0.20/1.00	Preset 0.95 Adj 0.20/1.00	Preset 0.95 Adj 0.20/1.00
MAX/MIN/DIF	Standard	Standard	Standard
Hi/Low Alarms	Visual	Visual	Visual+Audible
Display Backlight	Standard	Standard	Standard
HOLD	Last reading	Last reading	Last reading

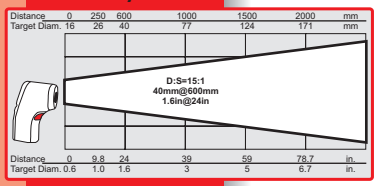
* extended accuracy declaration and additional parameters in last page.

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.

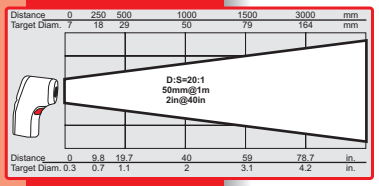
Laser Sighting - US Ultra Sharp
All MicroRay models are equipped with a Class II Laser for aiming purposes. The offset laser sighting will allow you to identify the approx. center of the target being measured. The Ultra Sharp definition of laser makes it easy to read outdoors as well.

Recommended Target Ranges

IRtec Microray PRO
IRtec Microray PRO+



IRtec Microray PRO++



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. The unit can keep up to 64 different measurements in its internal memory, which includes a Real-Time clock for any documenting procedure. 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	Xtreme	Xtreme+	Xtreme++
Measuring Range	-22 to 1400°F	-22 to 1830°F	-22 to 1830°F
Optics	35:1	50:1	50:1
Laser Sighting	Standard	Standard	Standard TTA
Accuracy*	±1% rdg or ±1.8°F	±1% rdg or ±1.8°F	±1% rdg or ±1.8°F
Contact Probe Socket	Standard	Standard	Standard
Emissivity	Preset 0.95 Adj 0.20/1.00	Preset 0.95 Adj 0.20/1.00	Preset 0.95 Adj 0.20/1.00
MAX/MIN/DIF/AVG	Std	Std	Std
HI/LO Alarms	Visual+Audible	Visual+Audible	Visual+Audible
Display Backlight	Standard	Standard	Standard
Memory	Last reading+ 64 mem+USB real-time clock	Last reading 64 mem+USB real-time clock	Last reading 64 mem+USB real-time clock

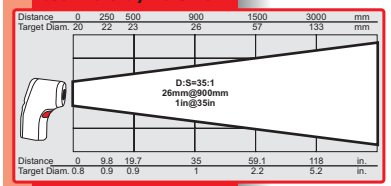
* extended accuracy declaration and additional parameters in last page.

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.

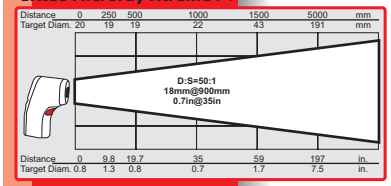
TTA / True Target Aiming
Using the most advanced technology, the MicroRay Xtreme++ has a laser sighting with a reflex system of the beam passing through the center of the lens, which grants the best possible accuracy when aiming at a distance.

Recommended Target Ranges

IRtec Microray Xtreme



IRtec Microray Xtreme+
IRtec Microray Xtreme++



Memory
Xtreme models can store up to 64 test with date and Time using the internal real time clock. Datalogging can be manual or automatic with settable sampling time.

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++