Professional for Industrial Applications, Affordable for Domestic use !

IRtec MicroRay PRO™ & Xtreme™

The New Revolutionary Compact
Low Cost Professional Infrared Thermometer

MicroRay PRO
☞-22° to +932°F
☞Optics 15:1

MicroRay Xtreme++
☞-22° to +1832°F
☞Optics 50:1
☞TTA True Target Aiming
☞Internal Memory
☞USB cable with Windows Software

☞Comfortable : Pistol Grip
☞Easy to use (°C/°F selectable):
Just a "click" to measure
☞Immediate response
☞Ultra Sharp Laser sighting
☞Large backlight LCD display
☞Built-in contact probe
☞Preset adjustable emissivity
☞Max,Min,Diff reading

IP54
washable

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

The Smart Choice

Made in EU/USA

IRtec MicroRay PRO

The MicroRay PRO infrared (IR) thermometer is the ideal tool to diagnose, inspect, and check the performance of any temperatures that are critical to 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, swimming pool, and so much more.

IRtec MicroRay	PRO	PRO+	PRO++
Measuring Range	-22 to 932°F	-22 to 932°F	-22 to 1112°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	Preset 0.95	Preset 0.95
	Adj 0.30/1.00	Adj 0.30/1.00	Adj 0.20/1.00
MAX/MIN/HOLD	Std	Std	Std
Hi/Low Alarms	Visual	Visual	Visual+Audible
Display Backlight	Standard	Standard	Standard
Memory	Last reading	Last reading	Last reading

* extended accuracy declaration and additional parameters in last page.

OPTICS (Distance vs. Target Dimension

IRtec Microray PRO
IRtec Microray PRO+

Distance	0	250	600	1000	1500	2000	mm
Diam. Target	18	26	40	77	124	171	mm

D:S=15:1
40mm@600mm
1.6in@24in

Distance	0	9.8	24	39	59	78.7	in.
Diam. Target	0.8	1.0	1.6	3	5	6.7	in.

IRtec Microray PRO++

Distance	0	250	500	1000	1500	3000	mm
Diam. Target	7	18	29	50	79	164	mm

D:S=20:1
50mm@1m
2in@40in

Distance	0	9.8	19.7	40	59	78.7	in.
Diam. Target	0.3	0.7	1.1	2	3.1	4.2	in.
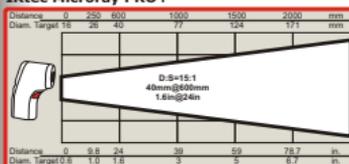
Ordering Code

Each Instrument includes a 9V battery and instruction manual.

Cat.1186-1	MicroRay PRO
Cat.1186-2	MicroRay PRO+
Cat.1186-4	MicroRay PRO++

Built-In Contact Probe

The MicroRay 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.

9V Battery

Easily replaceable standard 9V battery is provided with the unit. A kit is also available for a NiCd Rechargeable battery for unit.

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 temperatures that are critical to your applications. With its superior optics, it allows for easier & 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 procedures. 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 1832°F	-22 to 1832°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	Preset 0.95	Preset 0.95
	Adj 0.20/1.00	Adj 0.20/1.00	Adj 0.20/1.00
MAX/MIN/DIF/AVG	Std	Std	Std
Hi/Low Alarms	Visual+Audible	Visual+Audible	Visual+Audible
Display Backlight	Standard	Standard	Standard
Memory	Last rdg+	Last reading	Last reading
	64 mem+USB	64 mem+USB	64 mem+USB
	real-time clock	real-time clock	real-time clock

* extended accuracy declaration and additional parameters in last page.

OPTICS (Distance vs. Target Dimension
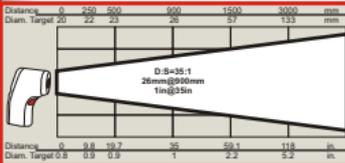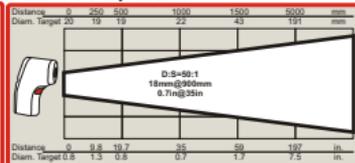
Ordering Code

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++

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 its easier to read outdoors as well.

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.

Common Specifications

- Spectral Response: 8-14 mm
- Display Resolution: 0.1°F up to 199.9°F   . 1°F otherwise
    on MicroRay Pro/Pro+ only 0.5°F below 32°F
- Response Time: 300 ms, 95% response
- Emissivity: adjustable from 0.20 to 1.00 (preset on 0.95)
- Auto Power Off: Automatic if no key is pressed for more than 20 sec.
- Accuracy IR Channel:

Range from 32°F to f.s. :   ± 1.5% of the reading or   ± 2.7°F (PRO)
Range from 32°F to f.s. :   ± 1% of the reading or   ± 1.8°F (Xtreme)
Range 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
- Contact Channel: Resistance high accuracy platinum Pt1000
- Contact Channel Range: from -22°F to 932°F
- Accuracy: 0.2% of rdg or 0.36°F
- Power Supply: 9V alkaline or optional rechargeable battery kit
- Battery Life: 40 h (backlight and laser Off) 20 h (On)
- Operative Temperature: 32 to +120°F
    10-95% RH non condensing up to 86°F
- Storage Temperature: -4°F to +150°F without battery
- Dimensions: 5.5x3.5x1.5 in (140x90x38 mm)
- Weight: 6 oz (165g net)
- Tripod mounting: 6.35 mm (1/4 in) 20 UNC threading
- Typical Working Distance :Optics 15:1 up to 10 ft, Optics 20:1 up to 12 ft
    Optics 35:1 up to 16 ft, Optics 50:1 up to 30 ft

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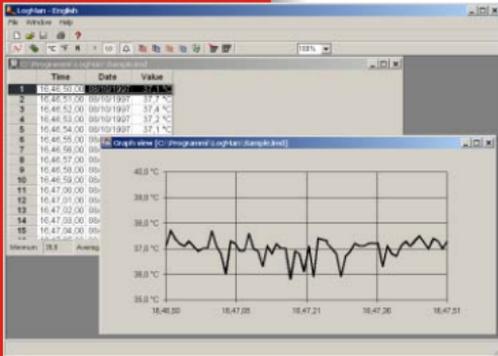
Logman Sofware is comptible with Windows 98/XP and can download data with USB cable. The USB is available only on MicroRay Xtreme.   You can download up to 64 tests or run on-line logging storing data directly on PC.   You can view, print, graph and export an Excel file.

Common Accessories

BB88ABS   Rigid ABS case
BB88BEL T   Soft Case with belt clip
BB88SOFT   Soft Vinyl Case
Contact Probe Compact 2.5"
F2125000 Penetration compact
Contact Probe Long 5"
F2123000 Penetration long
F2124000 Immersion long
F2127000 Surface long
F2122000 Ambient air long
Contact Probe 5" with Wire Extension
F2126000 Penetration long with wire
All contact probes use Thin-film Platinum
Class A Pt1000 sensor .