

IRTEC P IVT

8-14 µm documenting portable infrared thermometer with camera imaging

IRtec P IVT is a portable infrared thermometer with an embedded camcorder that is able to display both the visible area and the measured temperature into a single easy-to-use solution, over a large temperature range from -50°C to 1000°C and with a short response time of 150 ms.

Compact, light and easy-to-use, it is the perfect tool for documenting measurements with photo, video or data acquisition.

Description

IRtec P IVT is a portable infrared thermometer with an embedded camcorder that is able to display both the visible area and the measured temperature into a single easy-to-use solution, over a large temperature range from -50°C to 1000°C and with a short response time of 150 ms. Compact, light and easy-to-use, it is the perfect tool for documenting measurements with photo, video or data acquisition. A MicroSD card can be added in option to increase the memory storage capacity.

Equipped with an input for thermocouple type K, a humidity sensor and a dual laser pointing system, IRtec P IVT also benefit from a large LCD display allowing temperature and humidity measurements to be displayed together with MIN and MAX values.

- Adjustable emissivity from 0.1 to 1.00 (Preset at 0.95)
- Short response time (150 ms)
- Dual ultra-bright laser pointer
- Recording of images (JPEG), videos (AVI) and text (TXT)
- Measurement of relative humidity, temperature and dewpoint
- Input for thermocouple type K with universal MiniDin connector
- Large LCD display area for measurements and MIN / MAX values
- MicroSD card slot
- Easy handling with pistol grip
- Compact and light

IRtec P IVT is more particularly adapted to temperature measurements of the following objects:

- Moving parts (running paper rolls...)
- Gears and motors
- Live parts (electrical components, transformers...)
- Non-touchable parts (freshly painted parts)
- Food
- Corrosive substances

Specifications

Infrared temperature measurement

Range	-50 to 1000°C (-58 à 1832°F)
Optics	50:1
Accuracy	From 20°C to 500°C (68 to 932°F): ±1% ou ±1.0°C (1.8°F) From 500°C to 1000°C (932 to 1832°F): ±1.5% From -50 to 20°C (-58 to 68°F): ±3.5°C
Resolution	0.1°C (0,1°F) < 1000°C 1°C (1°F) > 1000°C
Repeatability	From -50°C to 20°C (-58 to 68°F): ±1.5°C (2.7°F) From 20 to 1000°C (68 to 1832°F): ±0.5% or ±0.5°C (0,9°F)
Response time	150 ms
Spectral response	8 ~ 14 µm
Emissivity	Digitally adjustable from 0.10..1.00

Optics

Temperature measurement through thermocouple type K

Range	From -50°C to 1370°C (-58 to 1832°F)
Accuracy	From 0 to 1370°C (32 to 2498°F) : ±0.5% or ±1.5°C (2.7°F) From -50 to 0°C (-58 to 32°F): ± 2.5°C (4.5°F)
Resolution	0.1°C (0.1°F) < 1000°C 1°C (1°F) > 1000°C

Air temperature and relative humidity measurement

	Air	Dew point temperature	Relative humidity
Range	From 0 to 50°C (32 to 122°F)	From 0 to 50°C (32 to 122°F)	From 0 to 100% RH
Précision	From 10 to 40°C: ±0.5°C (0.9°F) Beyond: ±1.0°C (1.8°F)	From 10 to 40°C: ±0.5°C (0.9°F) Beyond: ±1.0°C (1.8°F)	From 40% to 60%: ± 3% RH From 20% to 40% and from 60% to 80%: ±3.5% RH From 0% to 20% and from 80% to 100%: ±5% RH

General specifications

Size	205 x 62 x 155 mm
Weight	410 g
Display	2.2” 320*240 color LCD with backlight
Batteries	Rechargeable Battery life: About 4 hours continuous use Charging time: About 2 hours with AC adapter or USB connection

Spécifications environnementales

Operating range	From 0 to 50°C (32 to 122°F)
Storage conditions	From -10 to 60°C (14 to 140°F) (10 to 90% RH non condensing)

Models and accessories

Instruments:

Please select the required options from tables A, B... below to define the right device reference.

IRtec P IVT-0/ENG

Standard packing:

- Instrument
- Rechargeable battery, power supply, USB cable, ABS case, tripod, type K thermocouple
- Instruction manual in English

IRtec P IVT-1/ENG

Standard packing:

- Instrument
- Rechargeable battery, power supply, USB cable, ABS case, tripod, type K thermocouple
- Factory traceable calibration certificate
- Instruction manual in English

Accessories

F2137100	TC K/S contact probe
F2132100	TC K/S air probe

Packing information:

Weight	410g
Size	205 x 62 x 155 mm