

# Long Range Infrared Thermometer

**IRtek**<sup>®</sup>  
No Touch Thermal Solution

## IRscope500

### Long Distance Scope Infrared Thermometer

IRscope500 is the first long range IR thermometer that measures temperature from a long distance (30 meters) using IR radiometry. Not like thermal imaging system, the IRscope500 has a high distance to spot ratio (500:1) to ensure accuracy of the measurement without having to spend a fortune using high resolution thermal camera fitted with expensive telelens. The IRscope500 has the advantage of its predecessor LR300 that the user can easily aim at the target thru the 3.5" TFT LCD and reads the target temperature on the screen. Besides the IRscope500 has a far more superior in long distance coverage. The future improvement will also incorporate USB, storage and software for report and analysis.



Specific applications : power line distribution and substation, railways transmission line, etc.

*The world first long range IR thermometer with dynamic visual image sighting*

#### Specifications

Measurement range	: -20 to 300°C (-4 ~ 572°F)
Effective measuring distance	: 5 ~ 30 meters
Distance to spot ratio	: 500:1
Accuracy	: ±5%
Resolution	: 1°C
Emissivity	: 0.5 ~ 1.00
TFT/LCD display	: 3.5"
Working ambient temperature allowed	: -10 ~ 50°C (14 ~ 122°F)

## LR500

### Long Range IR Thermometer



The LR500 is the long range IR thermometer with extended distance range (35 meters) from its sibling LR300 (15 meters) and covers higher temperature. Besides the LR500 has a more stable feature and side LCD for convenient viewing for target temperature.

#### Specifications

Measurement range	: -10 ~ 300°C (14 ~ 572°F)
Effective measuring distance	: 5 ~ 35 meters
Distance to spot ratio	: 500:1
Accuracy	: ± 5°C (≤100°C) ± 5% (>100°C)
Resolution	: 1°C
Sighting system	: optical/laser sighting
Working ambient temperature allowed	: -10 ~ 50°C (14 ~ 122°F)

## LR1500

### Extra Long Range IR Thermometer



#### Specifications

Measurement range	: 0 ~ 300°C (32 ~ 572°F)
Effective measuring distance	: 10 ~ 85m
Minimum detectable target	: 40mm
Measuring angle	: Azimuth 360° Angle of pitch -30 ~ 90°
Distance to spot ratio	: 1500 : 1
Accuracy	: ≤5%
Resolution	: 1°
Emissivity	: 0.41 ~ 1.00 (adjustable)
Spectral response	: 8 ~ 14μm
Output	: Analog (4 ~ 20mA) Digital half-duplex RS485



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