

正面

Wt550 550度
英文有唛说明书:VER-A0
料号: 71680550004
材料:105G双铜
尺寸:210*143MM
公差:+ -1.0MM
印刷要求:单色双面印刷
印刷处理:折叠

反面

wintact®

MODEL:WT550

Infrared thermometer
Instruction manual



Version: WT550-EN-03

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E. Operation

1. Operating the unit:
- 1). Open the battery door and insert the battery.
 - 2). Pull the trigger to turn on the unit;
 - 3). Aim at the target surface and pull the trigger, then temperature will be shown on the LCD.
- This unit is equipped with a laser, which is only used for aiming.

2. Locating a Hot Spot:
- To find a hot spot, aim the thermometer outside of interest, then scan across with an up and down motion until you locate the hot spot. (Figure 1)

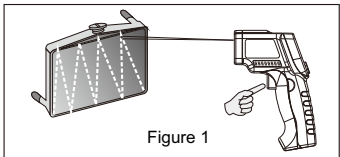
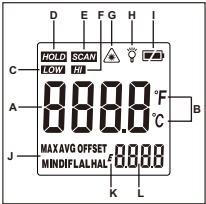


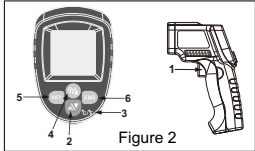
Figure 1

F. LCD display & buttons

1. LCD display:
- A: measuring reading
 - B: measuring unit
 - C: low temperature alarm icon
 - D: data hold icon
 - E: scanning icon
 - F: high temperature alarm icon
 - G: laser on icon
 - H: back light on icon
 - I: battery power icon
 - J: mode
 - K: emissivity indicator
 - L: functional value



2. Diagram description:
(figure 2)



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A. Introduction

This infrared thermometer is used for measuring the temperature of the object's surface, which is applicable for various hot, hazardous or hard-to-reach objects without contact safely and quickly.

This unit consist of Optics, Temperature Sensor Signal amplifier, Processing circuit and LCD Display. The Optics collected the infrared energy emitted by object and focus onto the Sensor. Then the sensor translates the energy into an electricity signal. This signal will be turned out to be digital shown on the LCD after the signal amplifier and processing circuit.

B. WARNING & CAUTIONS

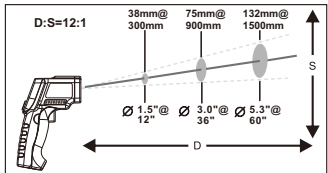
1. Warning:
- To avoid the potential situation may cause harm or damage to people, please pay attention to the following items:
- 1). Do not point laser directly at eye or indirectly off reflective surfaces.
 - 2). The unit cannot measure through transparent surfaces such as glass or plastic. It will measure the surface temperature of these materials instead.
 - 3). Steam, dust, smoke, or other particles can prevent accurate measurement by obstructing by the units optics.

2. Cautions:
- Infrared thermometer should be protected for the following:
- 1). EMF (electro-magnetic fields) from arc welders, induction heaters.
 - 2). Thermal shock (cause by large or abrupt ambient temperature changes allow 30 minutes for unit to stabilize before use).
 - 3). Do not leave the unit on or near objects of high temperature.

C. Distance to spot size

1. When take measurement, pay attention to the Distance to Spot Size. As the Distance (D) from the target surface increases, the spot size (S) of the area measured by the unit becomes larger.
The Distance to Spot size of the unit is 12:1.
This unit is equipped with a laser, which is used for aiming.

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2. Field of view:
- Make sure the target is larger than the unit's spot size. The smaller the target the closer measure distance. When accuracy is critical, make sure the target is at least twice as large as the spot size.

D. EMISSIVITY

Emissivity: Most organic materials and painted or oxidized surfaces have an emissivity of 0.95(preset in the unit). Inaccurate readings will result from measuring shiny or polished metal surfaces. To compensate for this, adjust the units emissivity reading or cover the surface to be measured with masking tape or flat black paint. Measure the tape or painted surface when the tape or painted reach the same temperature as the material underneath.

Marterial	Emissivity	Marterial	Emissivity
Aluminum	0.30	Iron	0.70
Asbestos	0.95	Lead	0.50
Asphalt	0.95	Limestone	0.98
Basalt	0.70	Oil	0.94
Brass	0.50	Paint	0.93
Brick	0.90	Paper	0.95
Carbon	0.85	Plastic	0.95
Ceramic	0.95	Rubber	0.95
Concrete	0.95	Sand	0.90
Copper	0.95	Skin	0.98
Dirt	0.94	Snow	0.90
Frozen food	0.90	Steel	0.80
Hot food	0.93	Textiles	0.94
Glass(plate)	0.85	Water	0.93
Ice	0.98	Wood	0.94

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G. Maintenance

1. Lens Cleaning:
Blow off loose particles using clean compressed air. Gently brush remaining debris away with a moist cotton swab. The swab may be moistened with water.
2. Case cleaning: Clean the case with a damp sponge/cloth and mild soap.

- Note:
- 1) Do not use solvent to clean plastic lens.
 - 2) Do not submerge the unit in water.

H. Specification

Temperature range	-50~550℃ (-58~1022 F)
Accuracy	0~550℃(32~1022 F): ±1.5℃(±2.7 F) or ±1.5% -50~0℃(-58~32 F): ±3℃ (±5 F) Whichever is greater
Repeatability	1% of reading or 1℃
Response time	500 mSec, 95% response
Spectral response	5-14 μm
Emissivity	0.10~1.00 Adjustable (0.95 Preset)
Operating Temperature	0 ~40℃ (32 ~ 104 F)
Operating Humidity	10~95%RH non-condensing
Storage Temperature	-20 ~ 60℃ (-4~140 F)
Power	3V (1.5V AAA batteryX2)
Typical battery life (Alkaline)	Laser Models:12 hrs
Distance to Spot size	12:1
Dimensions	153*101*43mm
Weight	147.5g

Specific Declarations:
Our company shall hold no any responsibility resulting from using output from this product as an direct or indirect evidence.
We reserves the right to modify product design and specification without notice.



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APPROVALS	NAME	DATE
DRAWN BY	XJH	2021-6-02
CHECKED BY		
APP. BY		
CUSTOMTER		

SHENZHEN HUI TIANYI ELECTRONIC CO., LTD.

Wt550 550度(WINTACT) 英文有唛说明书示意图

SIZE A4	71680550004	VER.A0
SCALE 1:1	PART Number:	SHEET 1 OF 1