

**Auto trace  
Hot / Cold object  
temperature**

# Moisture and Thermal Tracer

**WiFi Connectivity**

Reading displays on the Smart phone after Wifi connected

## Introduction:

Thermal Tracer has a wide range of applications. In addition to the thermal imaging function, MS-WITC3M / MS-WITC3MT also has a moisture detection function for wood / building materials. It is highly practical and has multiple detection methods suitable for various occasions. The detection results have higher accuracy. The meter is designed for use in wide applications, such as:

- For building construction, home / office / factory renovation, water damage restoration, such as locating water leaks behind walls, above ceilings, below floors, measuring content on bricks, concrete, wood before sealing, treating, painting, wall papering. Check for moisture on or below the surface of carpet, or sub-flooring.
- For wood working, measure moisture content before finishing, painting processing.
- For textile industries, regular check moisture content on fabrics, clothes, leather, quality check to prevent mold.
- For printing industries, check moisture content on paper before printing.

## Specifications:

Model No.:	MS-WITC3 / MS-WITC3M / MS-WITC3MT	
Wi-Fi wireless connection function introduction	1) Direct to Smartphone / Tablet 2) Through hotspot of Smartphone to Smartphone / Tablet / Smart T.V. / Projector 3) Through router to Desktop / Smartphone / Tablet	
Dual Wi-Fi wireless connection options available	STA 'Station' mode (WLAN mode)	Through a router or Smartphone hotspot as an intermediate, Tracer and the device are connected to the same WLAN.
	AP 'Host' mode (Wi-Fi direct mode)	Tracer will generate a Wi-Fi hotspot, and the device will connect to the hotspot.
Wi-Fi wireless connection distance	< 15M	
- Display - Date / Time	2-inch TFT Colour Display (220x176)	
Visible camera resolution	640 x 480 (pixel), digital visual camera enhancement	
Thermal image detector	Low power CMOS, shutterless	
Thermal image resolution	80(H) x 62(V), 4960 pixels	
Spectral response	8 ~ 14 μm (Thermal LWIR)	
Measure object temp. range	- 20°C ~ 350°C (- 4°F ~ 662°F)	
Accuracy	< ± 2°C ( ± 3.6°F)	
Resolution	0.1°C (0.1°F)	
Fixed focus distance	0.5M	
Image frequency	≤ 9Hz	
<b>NEW</b> : Distance to object meas. display	1cm ~ 320cm	
Thermal calibrate distance	30cm ~ 200cm	
Adjustable emissivity	0.1 ~ 0.99	
Max. / Min. / Target object temperature display		
Max. / Min. / Max. +Min. auto trace object temperature with thermal in picture display		
<b>NEW</b> : Max. / Min. / Max. +Min. auto trace object temperature with floating target icon display		
<b>NEW</b> : Auto trace object temperature hot / cold / (hot + cold) isotherm map display at grey palette or only visual display or only thermal display		
<b>NEW</b> : Alarm set, auto trace high or low temp. with beep and or laser pointer trigger		
<b>NEW</b> : Data logging, auto trace and capture high or low temperature every 10 seconds, and stored in micro SD card		
<b>NEW</b> : Temperature change monitoring function, when the monitoring is triggered, it will take pictures immediately, and then every 10 seconds will save a picture in the micro SD card		
<b>NEW</b> : Self Temp. Compensation adjust by manually input for accurate / comparison or matching reading		
Menu setting and display / 1/4" screw for tripod		
Color palette : Rainbow / Fulgurite / White Hot / Iron Red / Black/White / Without thermal image		
Equipped with charging indicator LED: lights up when charging, turns off when fully charged, flashes when using USB power supply after fully charged		
Image storage / File format : Micro SD card (not include, up to 32G) / BMP / CSV		
Type 'C' USB input for charging or continuous operation, 5V DC / 1A		
Operating / Storage conditions	0°C ~ 40°C (32°F ~ 104°F); 10% ~ 80%RH	
Power supply and battery life	With rechargeable 3.7V / 1100mAh Lithium battery, sustainable approx. operating time : 45 minutes (Wi-Fi connection status) / 170 minutes (Wi-Fi disconnected state)	
Battery charging time	Power on Wi-Fi connection status, more than 100 minutes	



**MS-WITC3MT**

- NEW**: Auto trace object temperature hot / cold / (hot + cold) isotherm map display at grey palette or only visual display or only thermal display
- NEW**: Alarm set, auto trace high or low temp. with beep and or laser pointer trigger
- NEW**: Data logging, auto trace and capture high or low temperature every 10 seconds, and stored in micro SD card
- NEW**: Temperature change monitoring function, when the monitoring is triggered, it will take pictures immediately, and then every 10 seconds will save a picture in the micro SD card
- NEW**: Self Temp. Compensation adjust by manually input for accurate / comparison or matching reading



**MS-WITC3 (3 in 1)**

**MS-WITC3M (4 in 1)**

**MS-WITC3MT (6 in 1)**

## Moisture Specifications:

Model No.:	MS-WITC3	MS-WITC3M	MS-WITC3MT
Moisture mode - Pin type Measurement (%PM) Range : 6.0 ~ 99.9 %PM Accuracy : ±(5% rdg +5 digits)		*	*
Moisture mode - Pin type, Relative Surface Trace (RST) Range : 0.1 ~ 99.9 RST Accuracy : Relative reading (REL)			*
Moisture mode - Non-destructive, Relative Penetrate Trace (RPT) Range : 0.1 ~ 99.9 RPT Accuracy : Relative reading (REL) Measuring depth : 100mm / 4.0 inches			*

Note: MS-WITC3 does not have moisture detection function (Moisture mode), It's fixed to IR mode.