

## Microscope Heating Stage & Thermal plate

Mshot microscope constant heating stage is high cost effective and durable, can customize for user microscope needs. It is used for keep warming live cells and temperature sensitive biology during microscope observation, widely used at cell engineering, neuroscience, Genetic engineering and related application. The thermal plate auto offers sample constant temperature guarantee.



### Features:

- Precision-casting and high qualified manufacture craft
- Control room temperature to 50°C evenly
- Temperature control accuracy  $\approx \pm 0.1^\circ\text{C}$
- Heat responding time  $\leq 0.5\text{s}$
- ITO film coating glass, black Nickel Surface Coating frame
- Super thin glass for better heating
- Foot length liftable and removable
- Various sizes plate for different sizes stage and microscope

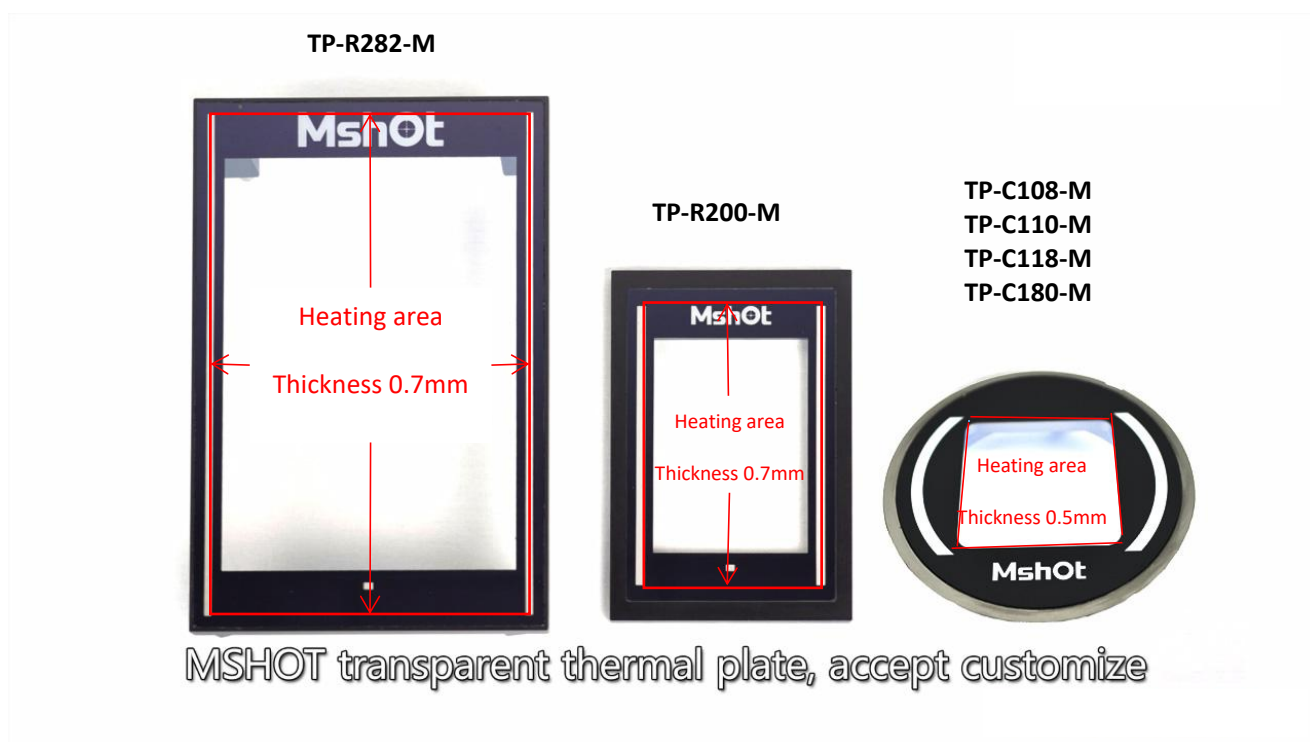
### Applications:

- Embryology
- IVF
- Genetics Andrology
- Cell biology
- Neuroscience
- Sperm analysis
- Organic material experiment

Compatible for different sizes stage and microscopes, can customize according to stage requirement.



Item No.	Shape	Thermal plate size	Suitable microscope	Recommend used microscopes
TP-R200-M	Rectangular	165x113mm	Upright	MSHOT MF43/MF31/ML31  Olympus BX53/BX43/BX51/CX41/CX31
TP-R282-M	Rectangular	240x160mm	Stereo	MSHOT SZX7/MZX81/MZ61  Olympus SZX16/SZX12/SZX10/SZ61  Nikon SMZ18/SMZ745
TP-C118-M	Circular	118mm	Inverted	MSHOT MF53/MF52
TP-C108-M	Circular	108mm	Inverted	Nikon Ti-U/S/E
TP-C100-M	Circular	100mm	Inverted	Zeiss AXIO A1
TP-C110-M	Circular	110mm	Inverted	Olympus IX51/IX71/IX81/IX73/IX83  IX70/IX50 / CKX53/CKX41  Nikon SMZ745
TP-C180-M	Circular	180mm	Stereo	Nikon SMZ800N



## Specification

Circular shape thermal plate		Rectangular shape thermal plate
Diameter	TP-C108-M: 108mm TP-C100-M: 100mm TP-C110-M: 110mm TP-C118-M: 118mm TP-C180-M: 180mm	TP-R200-M: 165mmx113mm TP-R282-M: 240mmx160mm
Glass	Tempering glass (including ITO film) Double layer glasses	Tempering glass (including ITO film) Double layer glasses
	Thickness of central area 0.5mm	Thickness of central area 0.7mm
Frame	Stainless Steel (black nickel plating)	Stainless Steel (black nickel plating)
Silk printing	Black Nickel Surface Coating	Black Nickel Surface Coating
Foot	No	50mm~60mm lifting, can be removed
<b>Line material</b>		
Sensor	PT100 (Platinum)	
Electrode	Sliver paste	
Power line	MP3 plug - USB - 4 pin Aviation head line	
<b>Temperature controller</b>		
Power in voltage	110~220V, AC50-60HZ	
Output voltage/ Power	3~12V (adjustable), 3A	
Temperature setting	LED show, preset panel	
Temperature range	Room temperature -50°C (constant temperature available)	
Accuracy	≈±0.3°C	
Responding time	≤0.5s	
Control method	PID+FUZZY compound Intelligent adjustment algorithms	
Electromagnetic compatibility	IEC61000-4-4(electrical fast transient), ±4KV/5KHz IEC61000-4-5(surge),4KV	
Isolated pressurization	Between power supply terminal, relay contact and new signal terminal ≥ 2300VDC Between isolated weak signal terminals ≥ 600DVC	
Working surrounding	10~30°C, relative humidity 20%~80% (25°C)	
Accessories	Screws, slide holders	
Optional accessories	Infrared thermometer	

