

# Thermo Plate

Ensures more accurate and more reliable thermal control of the specimens during the observation under a microscope. Wide product range supports Biotechnology Science and Industry.





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Ensures more accurate and more reliable thermal control of the specimens during the observation under a microscope.

Wide product range supports Biotechnology Science and Industry.





Microscope-Stage Automatic Thermocontrol System

High Quality & High Performance

# Stylish & Smart

Which is your color? More accurate, More stable!



# **Environmentally and user-friendly design**

Along with its great functionality and high performance, TP's new design creates a warm, relaxed lab environment. Five color variations are available. Please choose your color!

#### Colorful controller makes lab comfortable!



Five colors are available only for standard glass plate and lens heater

#### Clear Glass Heater

The Thermoplate utilizes a special transparent heating material coated onto a hard glass. The Thermoplate can be used for observing or manipulating specimen under phase contrast and polarization.

The flat plate surface ensures easy operation of the microscopes and relocation of specimen.

# **Imaging**



Preset temperature: from room temperature to 50°C

Especially recommended for use when using high-magnification lenses and oil/water immersion lenses

- \* To prevent heat from escaping to objectives, we recommend use in combination with lens heater.
- ※ For short-term imaging In case of long-term imaging, Stage Top Incubator is recommended.



# Smart |

# **Enables ease of temperature measurement**

Sterilized sensor can measure the actual sample temperature. Also, it enables on-site calibration to provide optimal temperature setting at your laboratory.

\* Significantly enhance Quality Control!



# Smart / Temperature Management Software TEM

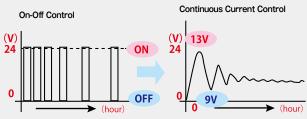
Monitors, records and logs sample or plate temperature which the sensor measures. Saves data in CSV format which can be used in spreadsheets.

\* Significantly enhance Quality Control!



# Smart 3 Stable imaging, effective for high magnification

In addition to PID control, TP features Continuous Current Control, minimizing focus drift generated by heat compared to the standard On-Off control method. Especially effective for observation when high magnification is required.



Thermoplate provides uniform temperature distribution!

An image taken by the thermal camera

# **Cooling and Heating**



Handles wide range of observations: yeast, plants, marine life, cell cultures, C.elegans, Planaria etc

The application of a thermoelectric cooling device and unique control system produces a compact and highly responsive cooling and heating system.



### **OLYMPUS**

Inverted Upright Stereo

INDEX

#### Nikon

Inverted Upright Stereo

## **ZEISS**

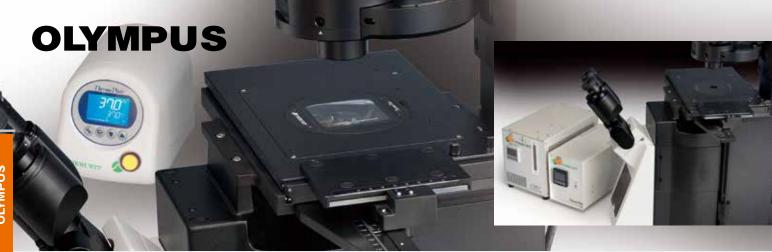
Upright Leica

Inverted Upright

#### **KEYENCE**

Marzhauser Ludl

Prior







IX83/73 IX81/71/51 IX70/50 IMT2

cross stage round opening:  $\phi$  110mm







Model	Glass thickness
TP-110R05	0.5mm
TP-110R	1.0mm
TP-110R13	1.3mm



XY motorized stage (IX3-SSU)

Sub stage

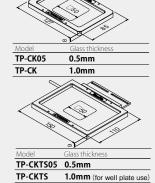








	84
Model	Glass thickness
111000	CIGGG (CG)
TP-IX3-05	0.5mm





(U-SVLO/SVRO/SVLB-4/SVRB-4) BH<sub>2</sub> **CX40** CH40/30

Upright



IP-S	1.0mm	
	100	37.27
4	53 14	53

Installation Plate Fix glass heating plate on the side by using attached double sided tape

\* For other motorized stages, please refer to P9.

## Cooling and Heating (Metal plate with a hole • Preset Temperature: 4℃~60℃)

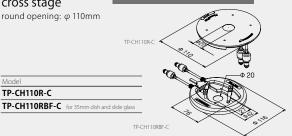


Applicable microscopes IX83/73 IX81/71/51 IX70/50 IMT2

TP-CH110R-C

cross stage round opening:  $\phi$  110mm





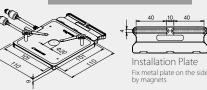


Applicable microscopes Power BX/BX

(U-SVLO/SVRO/SVLB-4/SVRB-4)

**BH2 CX40** CH40/30





TP-CHS-C

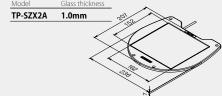




### MVX10 SZX16/SZX10

SZX2-ILLB SZX2-ILLK SZX2-ILLD

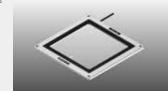




Applicable microscopes

### MVX10 SZX12/9/7

SZX-ILLK SZX-ILLB2 SZX-ILLD2

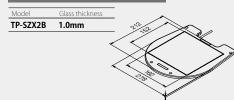




Applicable microscopes

#### SZX16/SZX10 SZX2-ILLT





Applicable microscopes

## SZX7/SZ61

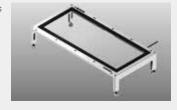
SZ2-ST + SZ2-ILA

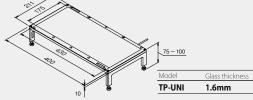


Model	Glass thickness	
TP-SZ2	1.0mm	- 5 <sup>to</sup> /se
	•	
		2.30 May 1
		<b>*</b>
		5

Applicable microscopes

# Universal





### Imaging (Metal plate with a hole $\cdot$ Preset Temperature: room temperature $\sim$ 50°C)

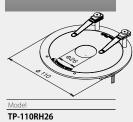


Applicable microscopes IX83/73 IX81/71/51

IX70/50 IMT2

cross stage round opening:  $\varphi$  110mm





Applicable microscopes

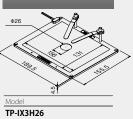
## IX83/73

XY manual stage (IX3-SVR)

XY motorized stage (IX3-SSU)

(Sub stage for opening: 156mm x 190mm)











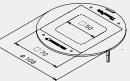


Applicable microscopes Ti

TE2000/300/200 TMD300/200

Rectangular stage round opening:  $\phi$  108mm



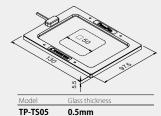


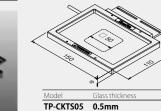
TP-108R05 0.5mm

Applicable microscopes

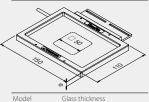
TS100/TS100-F mechanical stage

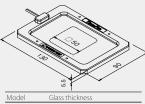






TP-CKTS





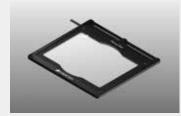
1.0mm (for well plate use)

Applicable microscopes

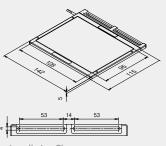
Ci

Upright

90i/80i/55i/50i E1000/800/600/400/200 **OPTIPHOT-2 LABOPHOT-2** 



TD C	1.0
TP-S	1.0mm



Installation Plate

Fix glass heating plate on the side by using attached double sided tape

Applicable microscopes

TMS/TMS-F mechanical stage





\* For other motorized stages, please refer to P9.

## Cooling and Heating (Metal plate with a hole • Preset Temperature: 4℃ ~ 60℃)



TP-CH108R-C

TP-CH108RBF-C for 35mm dish and slide glass





TP-CH108RBF-C

Applicable microscopes

**LABOPHOT-2** 

Ci 90i/80i/55i/50i E1000/800/600/400/200 **OPTIPHOT-2** 

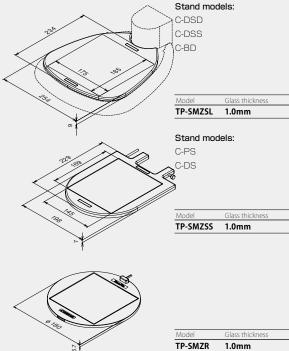


TP-CHS-C









# Universal





### Imaging (Metal plate with a hole $\cdot$ Preset Temperature: room temperature $\sim$ 50°C)



Applicable microscopes

Ti TE2000/300/200 TMD300/200

Rectangular stage round opening:  $\varphi$  108mm



Applicable microscopes

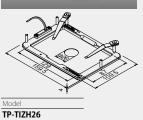
Ti

Exclusive XY motorized stage

When installing without Piezo stage, the stage adapter TID-NA is required.



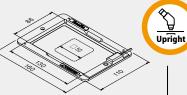




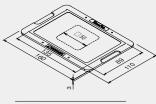
# ZEISS







Model	Glass thickness
TP-SQ05	0.5mm
TP-SQ	1.0mm

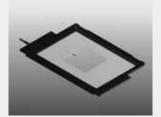


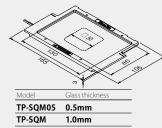
TP-SQ05FT 0.5mm (flat type)

Applicable microscopes

**Axio Observer** Axiovert

(M type frame holder)

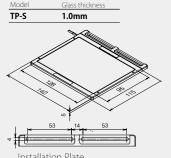




Applicable microscopes

**Axio Examiner Axio Imager** Axiophot2 Axioplan2 **Axioskop Axiolab Axiolab Pol Axiolab Imager** 





Installation Plate using attached double sided tape



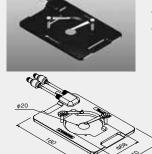


# Cooling and Heating (Metal plate with a hole • Preset Temperature: 4°C~60°C)

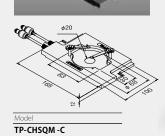
Model TP-CHSQ-C



(K type frame holder)



Applicable microscopes **Axio Observer** Axiovert (M type frame holder)







*Thermo Plate* models for Leica microscopes are exclusively distributed through Leica worldwide network the name of "Leica MATS"







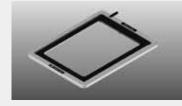


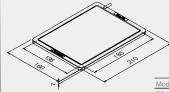




### **Axio Discovery** Stemi2000

(with large base stand N: 495052 9801)





Model	Glass thickness

Applicable microscopes

### Stemi2000

(with transmitted light base stand N: 455137)



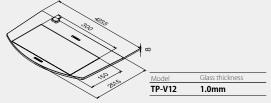


TP-STR	1.0mm
Model	Glass thickness

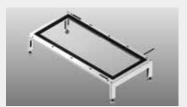
Applicable microscopes

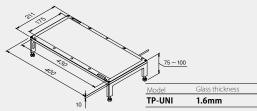
#### Discovery.V12 Lumar.V12





Applicable microscopes Universal



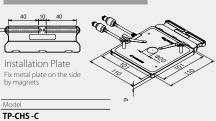
















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10	
Model	
TP-SQH26	

For more information about "Imaging" and "Cooling and Heating" plates for Leica microscopes, please feel free to contact Tokai Hit at sales-os@tokaihit.com

# Standard















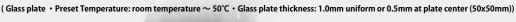














Applicable stage

**BZ-8000 BZ-9000** 



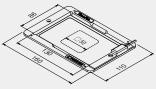
Model Glass thickness	TP-KI05	0.5mm	
	Model	Glass thickness	

# Marzhauser / Ludl

Applicable stage XY moterized stage opening: 110mm × 160mm



Model	Glass thickness	
TP-SQ05	0.5mm	
TP-SO	1.0mm	_

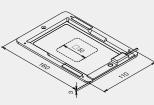


# **Prior**

Applicable stage H117







Applicable stage

H101



1.0mm



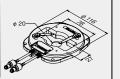
Cooling and Heating (Metal plate with a hole  $\cdot$  Preset Temperature: 4°C  $\sim$  60°C)

# KEYENCE

Applicable stage **BZ-8000 BZ-9000** 



TP-CHKI-C

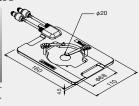


# Marzhauser / Ludl

TP-SQUP

XY moterized stage opening: 110mm × 160mm





Imaging (Metal plate with a  $\cdot$  hole Preset Temperature: room temperature  $\sim 50^{\circ}$ C)

# KEYENCE

Applicable stage **BZ-8000 BZ-9000** 



TP-KIH26



# Marzhauser / Ludl

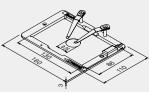
TP-CHSQ-C

Applicable stage

XY moterized stage opening: 110mm × 160mm







**Prior** 

Applicable stage H117



TP-SQH26P

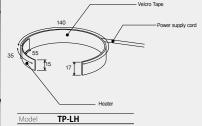
# Others

# Lens Heater Ease of set-up and superior

Prevents heat from escaping to objectives when using high magnification lenses and oil/water immersion lenses.

thermal effectiveness





# Digital Thermometer for Bioresearch

Model MC1000 (For K type thermocouple)

Sensor is calibrated to thermometer as a set, which enables precise temperature measurement.



## Thermoprobe

Model TSU-200F
(Stand alone sensor type)
1.0mm diameter sensor

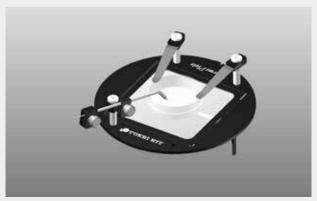
1.0mm diameter sensor probe coated with Teflon for high chemical-resistance





Tip width : 2.0  $\sim$  2.5mm Tip thickness : 0.3  $\sim$  0.5mm





For Imaging, Cooling and Heating plate, CL is included as standard. TP option can be installed only for Inverted microscopes.





TSU-G

### **Repair Service**

## To expedite repair service, the following information is required:

- · Serial number of plate and controller
- Photo of the defective unit (For example, broken plate)
- User name, address, etc.

#### Please feel free to contact to Tokai Hit at sales-os@tokaihit.com with the above information.



Your Satisfaction is Our Mission. We pay attention to your each and every word. Whenever you require our assistance, please feel free to contact us anytime.





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306-1<br/>Gendoji-cho, Fujinomiya-shi, Shizuoka-ken, Japan 418-0074<br/> TELEPHONE: (81) -544-24-6699 FAX: (81) -544-24-6641<br/> Email:sales-os@tokaihit.com

Catalog printed March 2013 Specifications and products in the catalog are subject to change without any obligation on the part of the distributor/manufacturer.







▲ Please pay special attention to items marked with Caution and Warning symbols as seen on the left. It is essential to read the Instruction Manual when using this device.