



Cell Micro Controls
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Equipment for cellular & electrophysiology research

HWPT-96OL/NK/384/LID Transparent ITO stages, heaters & lid

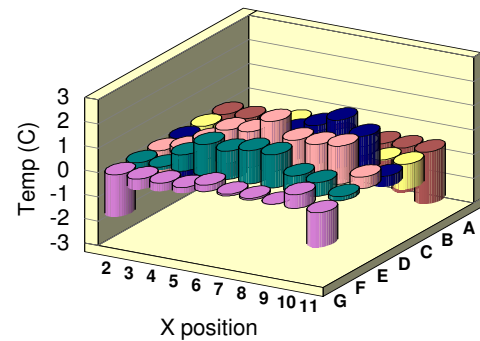
Transparent stage heater/well plate heater/lid



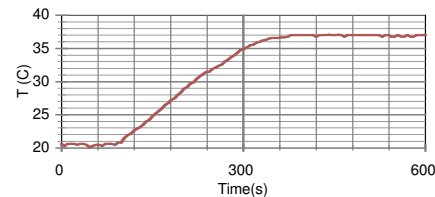
($\pm 1^\circ\text{C}$ @ 35.5°C) in a central area of $5 \times 7\text{cm}$.

The stage is designed to be connected to the **TCII 2Ch micro-Temperature controller**. One channel is used to regulate the temperature of the heated stage while the second channel can be used either for a roaming probe to monitor individual well temperatures or to control the well temperatures to allow more rapid heating of the wells.

HWPT-96OL



HWPT-384[S]

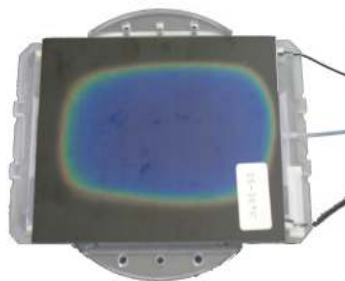


HWPT-384 + HWPT-LID

The HWPT-96OL (for Olympus), HWPT-96NK (for Nikon) Transparent stage/96 Well plate heater is made up of the HI-711Dp ITO Transparent heater in the MSA-OLH711 or MSA-NKH711 Microscope stage adapters, along with the TH-10Kmp Thermistor probe and CAB-TH and CAB-HX cables. This provides a low profile heater for 96 well plates and provides **uniform heating** ($\pm 2.5^\circ\text{C}$ @ 36°C) for the **inner 60 wells**. The outer wells can be used but the temperature in these wells will be lower. The ITO glass is 0.7mm thick while the glass plus stage adapter is 6.5mm thick.

Well plates are held in position by tabs on the edge of the heater plate so that well plate will not slide when the heated stage is attached to a moveable stage. The stage is compatible with Coastar, Falcon, Greiner and Nunc 96 well plates (call for other brands).

Other structures or chambers sitting on top of the heater can also be heater. In this case the temperature is uniform



Liquid crystal sheet 35-36C (brown to blue)

BT-I55D Transparent ITO stage



The **BT-I55D Transparent ITO stage** provides a uniformly heated area (approx. $47 \times 47\text{mm}$; heater 0.7mm thick) for microscopy, electrophysiology applications. It can be fitted in any of our microscope stage adapters. Applications include observation of culture dishes or other tissue chambers. You can also build a tissue chamber directly on the ITO heater. The heater and thermistor probe can be connected to the **TC2BIP 2Ch Temperature controller** for electrophysiology applications or the lower cost **TCII 2Ch micro-Temperature controller** for microscopy applications.