

okolab

H601-NIKON-TI-SR-GLASS/FRAME

H601-NIKON-TI-SR-GLASS/FRAME creates a warm and optically transparent surface perfectly flush with the Nikon TI-SR microscope stage. It provides the highest temperature uniformity by warming up both, the ITO coated glass and the surrounding aluminum circular case.

H601-NIKON-TI-SR-GLASS/FRAME connects to the multi-purpose H401-T-CONTROLLER, our user-friendly, dual channel touch screen controller, featuring an immersible temperature sensor, automatic calibration routines and on board memory for data logging.



www.oko-lab.com

info@oko-lab.com

Warranty



10 years

Resistant



to Impact and Scratch
Dragontrail™ Glass

Fast



Thermal Response

Stable



Temperature in time

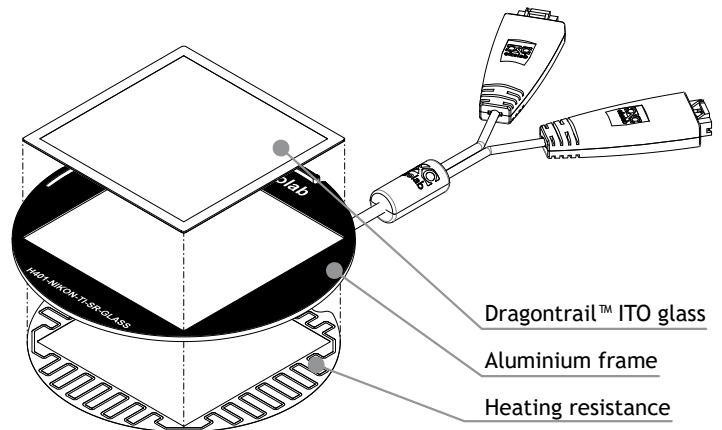
Uniform



Surface Temperature

PRODUCT DESCRIPTION

H601-NIKON-TI-SR-GLASS/FRAME is made by an optically clear glass mounted into an aluminum circular case. The optical glass is coated with conductive ITO (Indium Tin Oxide) and is actively heated by a gentle flux of low voltage current. Temperature accuracy is ensured by the reading of a tiny thermistor in contact with the glass surface. The aluminum case is independently heated by a silicon conductive band and its temperature is monitored by a second thermistor.



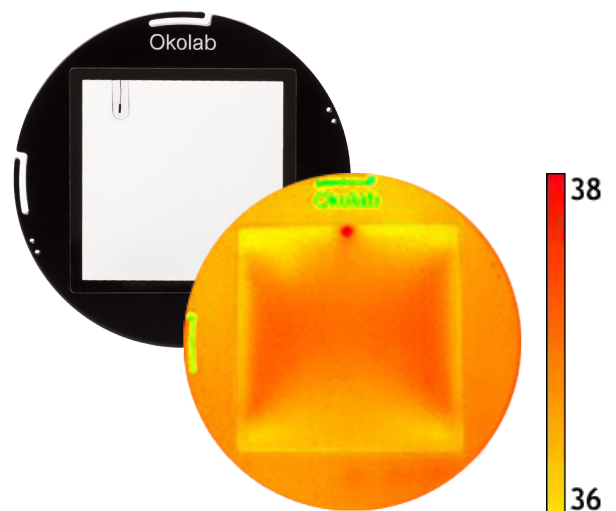
H601-NIKON-TI-SR-GLASS/FRAME must be connected to the user-friendly touch screen H401-T-CONTROLLER. This temperature controller offers two independent control channels, one for the optical glass and the other for the aluminum case.

H401-T-CONTROLLER is equipped with a flexible, immersible temperature sensor to measure liquid temperature inside the dish. Smart automatic calibration routines allow to calibrate glass temperature in order to achieve the desired temperature inside the dish.

On board memory allows to log and download data and alarm events.

TEMPERATURE UNIFORMITY

H601-NIKON-TI-SR-GLASS/FRAME achieves the highest temperature uniformity by independently controlling the temperature of the glass and of the aluminum case. Uniformity of each single device is measured via high accuracy IR imaging.



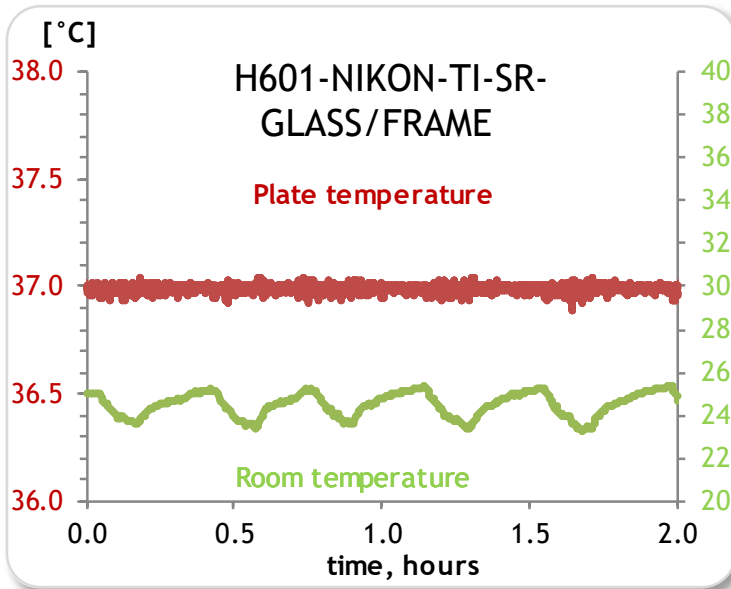
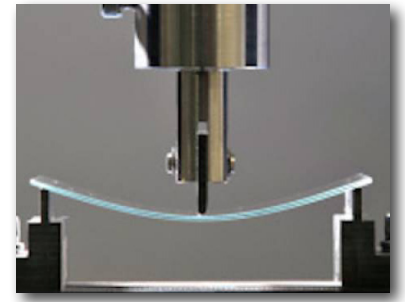
DATASHEET

H601-NIKON-TI-SR-GLASS/FRAME

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SUPERIOR MECHANICAL RESISTANCE

H601-NIKON-TI-SR-GLASS/FRAME uses Dragontrail™ glass, which features the highest resistance to breakage and scratches. The glass is firmly cased into the aluminum circular frame, which adds mechanical strength to the entire product. A special anti-fingerprint coating helps to keep glass surface clean during imaging, ensuring the best optical quality.



TEMPERATURE STABILITY

H601-NIKON-TI-SR-GLASS/FRAME provides a temperature stability better than $\pm 0.1^\circ\text{C}$, regardless of room temperature fluctuations. Advanced control algorithms ensure a fast response to sudden condition changes, such as when the dish is positioned on the glass surface.

TECHNICAL SPECIFICATIONS

T RANGE	from 3°C above ambient to 60°C
SAMPLE T ACCURACY	$\pm 0.1^\circ\text{C}$ after self calibration routine
SAMPLE T STABILITY	$\pm 0.1^\circ\text{C}$ if room temperature stays within $\pm 1^\circ\text{C}$
T UNIFORMITY	$\pm 0.3^\circ\text{C}$ over 50% of glass, $\pm 1^\circ\text{C}$ over entire glass
FREE SENSOR CALIBRATION MECHANISM	Comparison with external certified thermometer
GLASS TYPE	Dragontrail™ strengthened ITO glass
GLASS THICKNESS	0.5 mm
COMPATIBLE WITH	Nikon TI/SR
OBSERVATION AREA	$70 \times 70 \text{ mm}^2$
DIMENSIONS	$\varnothing 108 \text{ mm}$
WEIGHT	60 g
VOLTAGE	24 V
POWER CONSUMPTION MAX	40 W

