



# MicroscopeHeaters.Com

KEEPING CELLS ALIVE  
*A DIGITAL PIXEL BRAND*

## Microscope Incubation - Heating, Cooling & Gas Control

Heated Stage Inserts - Objective Heaters - Whole Microscope Cooling -  
Heater Cooler Stage Inserts - Advanced Vibration Free Heater Technology  
CO<sub>2</sub> Controller - CO<sub>2</sub>-O<sub>2</sub> Hypoxia Controller

### **Microscope Incubation Chamber System**

*"I'm very pleased with our Heating System from Microscope Heaters. We are routinely running 72hr plus time-lapse experiments on primary cells. It is completely silent and great not to have the noise of a loud convection fan"*

**Dr Jens Eriksson,**  
*Uppsala University, Sweden*

### **Whole Microscope Heater Cooler Solution**

*"We study early-stage biofilm formation in the opportunistic pathogen Pseudomonas aeruginosa. Crucially, the incubation chamber has dual-capability: it can both heat and cool our samples."*

**Jamie Wheeler,**  
*Foster Group, University of Oxford*

### **Drosophila Imaging- Heater Cooler System**

*"Developed for the University of Oxford to image Drosophila embryogenesis, and maintain precise temperature control at 18,22,25 and 28°C over a 10-24 hour period. Better than 0.2°C accuracy is required and maintained. The system heats and cools the sample when required"*

**Alan Wainman**  
*Raff Group, University of Oxford*

### **Heated Microscope Inserts and CO<sub>2</sub> Controller**

*"Our Microscope\_Heaters Heated Insert and CO<sub>2</sub> Controller system is great! We would highly recommend this system to any researchers using live cell imaging."*

**Professor Klaus Suhling**  
*Kings College, London*

### **New Generation Objective Heater System**

*"The heater is easy to fit and set up, and provides excellent thermostability during extended time course imaging at 37°C."*

**Andrew Jefferson**  
*Micron Imaging Facility,  
University of Oxford*



**WIMM University of Oxford**



**Biosciences - University of Birmingham**

Oxford  
Heidelberg  
Cambridge  
Marseille  
Paris

## Complete Cell Viability Product Range

### Microscope Incubation Chamber System

*Provides the ultimate environment to allow long term time lapse experiments. Our unique vibration free heating technology, provides the best stability, with minimal sample perturbation.*

Temperature Range	Ambient plus 1°C to 42°C
Accuracy	+ - 0.3°C

### Whole Microscope Cooling System

*Designed for applications where an extended sample area needs to be cooled, i.e. for cooling microfluidic systems. Used in bacterial biofilm formation research.*

Cooling Range	12-15°C below Ambient
Accuracy	+ - 0.3°C

### Stage Top Heater Systems

*Independent control over the insert base and glass cover, provide accurate sample temperature control. This combined with a flexible portable package make it ideal for applications running on multiple microscope systems.*

Temperature Range	Ambient plus 1°C to 55°C
Accuracy	+ - 0.3°C

### Microscope Objective Heater

*New generation objective heater, combines a flexible heating element with temperature sensor in contact with objective. Available integrated with Stage Top Heater.*

### Stage Top Heater/Cooler Systems

*This fully integrated system provides precise sample temperature control in the range 5-50°C. Designed for use in non-mammalian model system research. i.e Dictyostelium, Xenopus, Zebrafish, Yeast First systems have been used to study Drosophila Embryogenesis.*

Cooling Range	12-15°C below Ambient
Accuracy	+ - 0.3°C

### Hypoxia Stage Top system

*A sealed insert with internal CO<sub>2</sub> and O<sub>2</sub> sensors provide The most reliable system available, with gas concentrations measured at the sample.*

CO <sub>2</sub> Range	0-10%
O <sub>2</sub> Range	21-1%

### CO<sub>2</sub> Gas Controller Systems

*Microprocessor controller range 0-20%. Internal variable pump system. Requires only 100% CO<sub>2</sub> supply.*

### Sealed Stage Inserts

*Provide a closed environment to maintain raised CO<sub>2</sub> concentration at the sample. Accept 96-well format, Petri dish and slides. Compatible with Prior, ASI, Marzhauser and Ludl Stages.*

### Selection of Installed Systems

Nikon Ti-E Crest	Birmingham
Olympus IX83 TIRF	Oxford
Nikon TI-2 Crest Confocal	Uppsala
Zeiss 880 Airyscan	Sussex
Nikon Ti-E Yokogawa	Dusseldorf
Nikon TI-E Aurox Confocal	Oxford
ASI RAMM	UCL
Abberior Olympus IX83	Heidelberg
Nikon Ti-E Cairn RS Super Resolution	LMB Cambridge
PicoQuant Olympus IX83	San Diego
Leica DMI8 SP5	Exeter
Nikon Ti-2 Light Sheet	Cambridge
Nikon Super Resolution	Marseille
Nikon Ti-E	Marburg
Olympus IX83	Toronto
3i Spinning Disc & TIRF	Sussex

Nikon  
Zeiss  
PicoQuant  
Olympus  
Leica

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