

# The Nanolive-ibidi incubator

## ibidi Temperature Controller

The independently controlled, heated glass lid of the ibidi Heating System solves the problem of condensation in live cell imaging.

By heating the lid to a temperature higher than the plate, a vertical temperature gradient is created. This gradient and an active humidity control prevent the formation of condensation on the lid of the dish. The temperature at the cells' site is maintained at a constant 37 °C.



### Technical Features:

- Provides excellent temperature stability within the incubation chamber
- Four control channels allow to connect a heated plate, a heated lid, and two additional heated components (e.g., an objective heater)
- Temperature stability:  $\pm 0.05$  °C
- Temperature uniformity across the insert:  $\pm 0.5$  °C
- Temperature range: Room temperature / + 45 °C
- Control channels: 4
- TempControl software for remote control and data recording included
- External temperature sensor included
- Adjustable alarm function included

- Analog output for extreme noise reduction optional

## **ibidi Gas Incubation System**

The ibidi Gas Incubation System provides both humid and CO<sub>2</sub>-rich air for stage-top incubators like the ibidi Heating System. The gas mixture is continuously flushed through the stage top incubator, ensuring a maximum humidity and an optimal pH for CO<sub>2</sub>-buffered liquids.



### **Technical Features:**

- A gas mixer that upgrades the ibidi Heating System to a complete stage top incubator for all live cell imaging applications with CO<sub>2</sub>, O<sub>2</sub>, and humidity control
- Ideal for live cell imaging applications - full incubator conditions on the 3D Cell Explorer
- Stable gas incubation without evaporation
- Suitable for various experimental conditions (e.g., pH or hypoxia)
- Precise and reliable gas incubation for O<sub>2</sub> and CO<sub>2</sub>
- Active and fast humidification - no evaporation
- Uses pressurized air to create the gas flow – no vibrations
- Optional air pressure generator available (for when pressurized air is not obtainable)