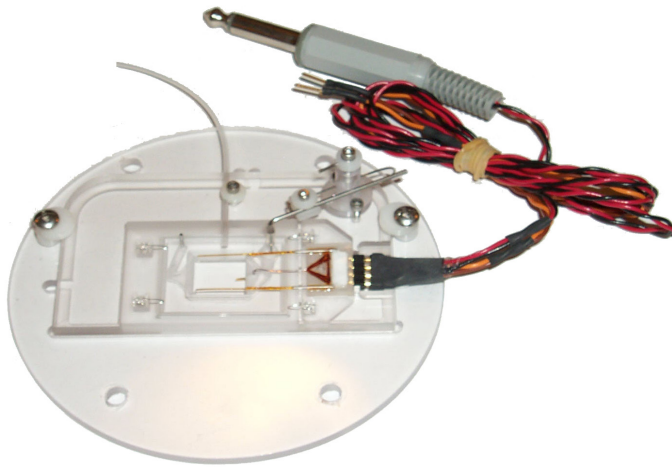
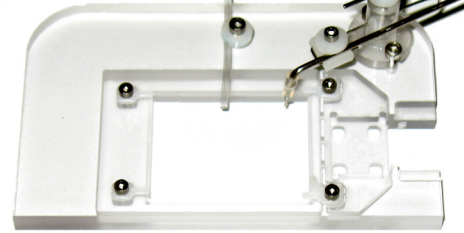


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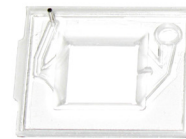
Culture chamber system



**Chamber Holder
(HLD-CS)**



**Chamber (BT-CS) Stim/therm assy
(STIM-AT)**



- **Low cost reusable culture/stim chamber (BT-CS)**
-small volume, laminar flow, inflow/outflow port, #1 glass bottom
- **Stimulation/thermistor assy (STIM-AT)** presses into place-**no tools required**
- **Holder (HLD-CS)** for chamber, aspirator
- **Microscope stage adapters (MSA-NIK, MSA-TS100, MSA-OL11, MSA-LEI/DM, MSA-MZ etc.)** for all popular microscopes
- **BT-CS fits Ionoptix Corp C-Dish** for stimulation during culture

DESCRIPTION

The **Culture Chamber system** uses a **low cost** but complete cell perfusion chamber (**BT-CS**) for holding cells or small pieces of tissue and then transferring them to a microscopy or electrophysiology setup. The **BT-CS** has an inflow tube and area for aspirating solution and has laminar flow over a range of flow rates. The **Stimulation/thermistor assy (STIM-AT)** presses into the **Chamber holder (HLD-CS)**. The unique design of the stimulation electrodes is such that they clip into a small recess cut along the front and rear lower edges of the chamber. They can be rebent to their original shape if they are accidentally damaged. The aspirator is positioned with the **FL-1 Miniature postioner** attached to the **HLD-CS**.

In a typical setup with temperature control the **HPRE2 Pre-heater** is used for heating the chamber. perfusate The **MPRE8 8 channel pre-heater** can be used to superfuse a region of the chamber. These can both be controlled by the **TC2BIP Temperature Controller** for electrophysiology or **mTCII micro-Temperature Controller** for microscopy. If the **TC2BIP** is equipped with the third channel (**TC2-Ch3**) the temperature in the chamber can be monitored with the thermistor built into the **Stimulation/thermistor assy**.

The **Chamber holder** fits into the **Microscope stage adapter**. These are available for most popular microscopes (see our website for further information).

Specifications

- BT-CS:** Central chamber-volume 0.3ml
- 13x12mm
 - aspiration port matches male Luer for priming
 - supplied with #1 cover slide attached
 - polycarbonate (autoclavable)
- STIM-AT:** Platinum Iridium stimulation wires, snaps into **HLD-CS**
- HLD-CS:** Holds **BT-CS**, **STIM-AT** and **FL-1**. Fits into MSA-XXX stage adapters