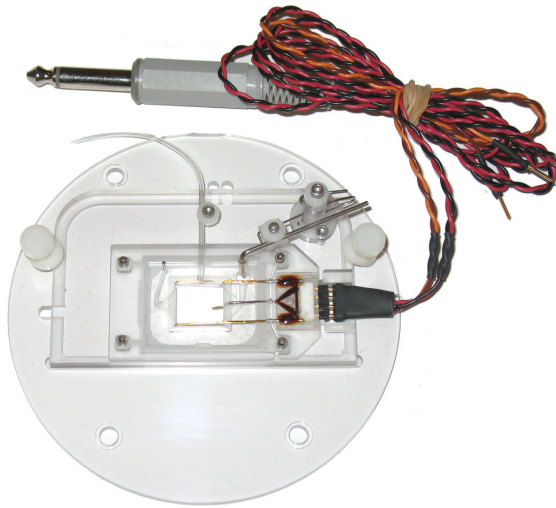


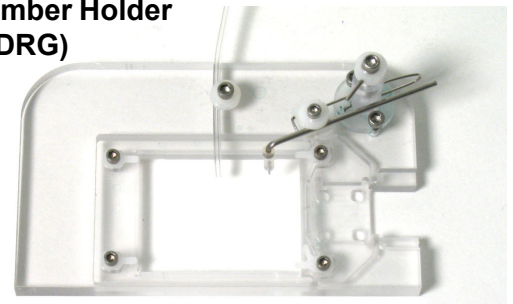
**Cell Micro Controls**  
 P0 Box 11387, Norfolk, VA 23517  
 Tel: (800) 398-4262; (757) 622-0261  
 Fax: (800) 398-9262; (757) 622-0262  
 WWW: <http://www.cellmc.com>; Email: [info@cellmc.com](mailto:info@cellmc.com)  
*Equipment for cellular & electrophysiology research*

# Culture chamber system

## Replaceable glass



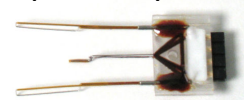
**Chamber Holder (HLDRG)**



**Chamber (BTRG)**

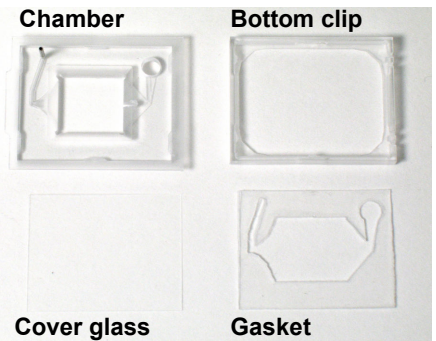


**Stim/therm assy (STIM-AT)**



- **Reusable culture/stim chamber (BTRG-CH), gasket (BTRG-GA) and bottom clip (BTRG-BC)**  
 -small volume, laminar flow (to 2ml/min), inflow/outflow port, accommodates #1 or #1 1/2 glass or plastic cover slide bottoms
- **Stimulation assy (STIM-AT) presses into place-no tools**

**Chamber (BTRG)**



### DESCRIPTION

The **Culture Chamber system-RG** uses a **low cost** but complete cell perfusion chamber (**BTRG-CH/GA/BC**) for either culturing cells in or using cells grown on a 24x30mm #1 or #1 1/2 glass or plastic cover slide. The chamber is then transferred to a microscopy or electrophysiology setup. The **BTRG** has an inflow tube and separate port for aspirating solution. Our experience designing the **BT-xx** line of tissue chambers enabled us to develop a compact chamber that has laminar flow over a range of flow rates (upto 2ml/min). The **Stimulation/thermistor assembly (STIM-AT)** presses into the **Chamber holder (HLDRG-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 positioner** which also attaches to the **HLDRG**.

In a typical setup with temperature control the **HPRE2 Pre-heater** is used for perfusing the chamber. The **MPRE 8 channel pre-heater** can be used to superfuse a region of the chamber. These can both be controlled by the **TC2BIP Temperature Controller** or **mTCII 2CH 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 assembly**.

The **Chamber holder** fits into the **Microscope stage adapter**. These are available for most microscopes but if we don't already have one we will make one for you at the same cost as a standard one.

### Specifications

**BTRG-CH:** Central chamber-volume 0.3ml  
 - 13x12mm  
 - aspiration port matches male luer for priming  
 - polycarbonate (autoclavable)

**BTRG-GA:** Silicon gasket (autoclavable)

**BTRG-BC:** Polycarbonate bottom clip (autoclavable)

**STIM-AT:** Platinum Iridium stimulation wires, snaps into HLDRG

**HLDRG:** Holds BTRG-CH/GA/BC, STIM-AT and FL-1. Fits into MSA-XXX stage adapters

**Cover slides:** #1 or #1 1/2 plastic or glass