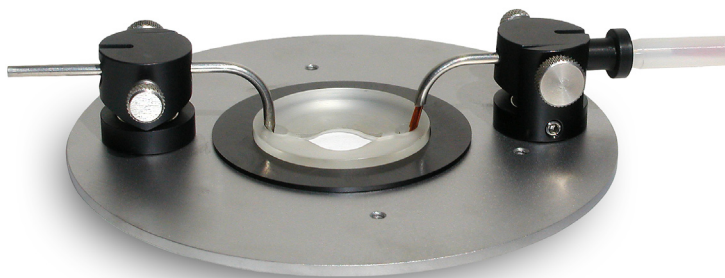
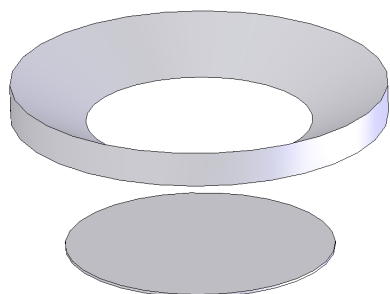


# Low-profile Chamber-Assembly for Upright and Inverted Microscopes - PCCS1/2/S

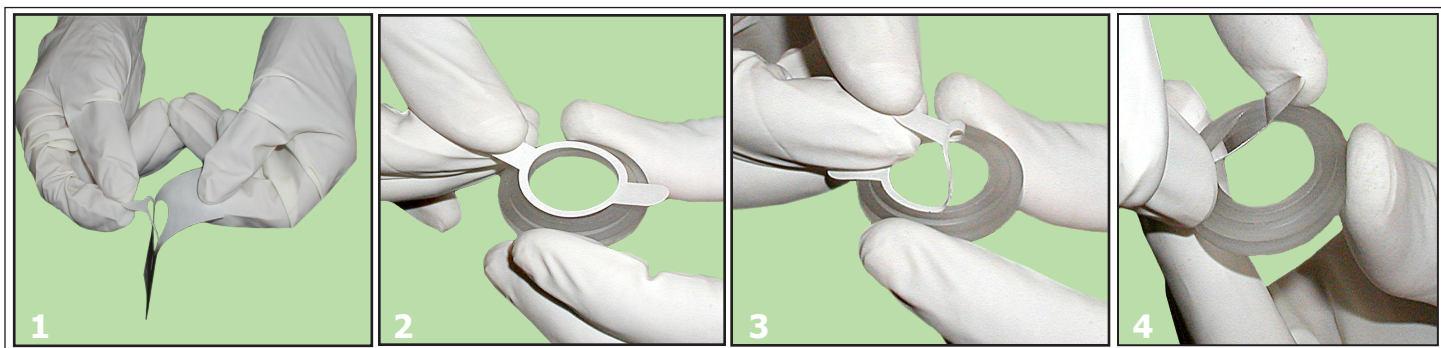
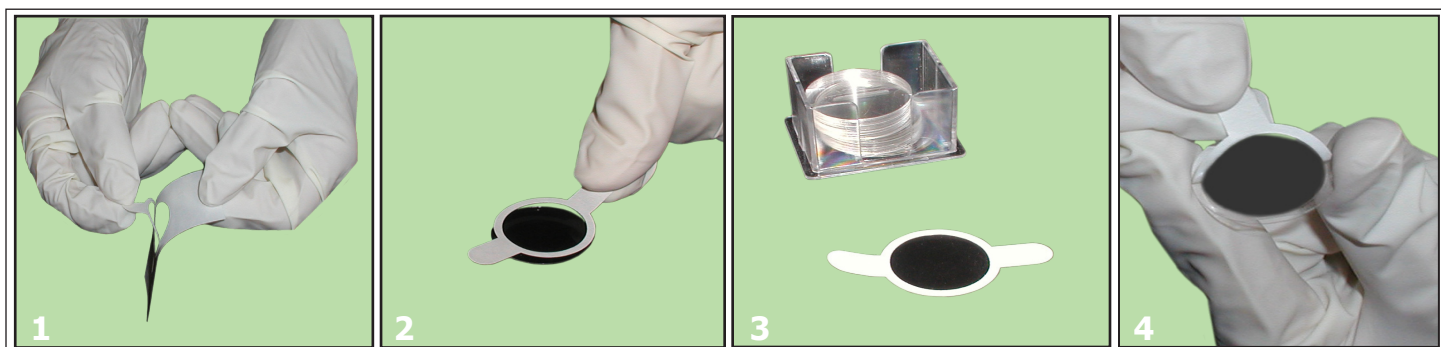


Low-profile chamber inside microscope adapter MA. Miniature magnetic holder with suction tubing MTH-S and zero-dead volume manifold ZMM are positioned around the chamber to form a perfusion system.

1. Remove protective liner from the bottom surface to expose the adhesive.
2. Apply the adhesive side down onto the surface of a coverslip. Press gently to seal. This can be done even if the coverslip contains media with your sample.
3. Add media and/or sample onto the coverslip if some incubation is necessary. Otherwise proceed to step 4.
4. Remove the remaining protective liner, and put the plastic holder on top of the coverslip. Press gently to seal.



Catalog #	Features:
PCCS1, \$60	Low-profile plastic chamber-holder for 25mm coverslips.
PCCS2, \$95	Low-profile plastic perfusion chamber-holder for 25mm coverslips. Separate compartments for inflow and outflow to prevent bubbles to enter the working volume.
UTIC-21, \$80	Replacement adhesive layers, x100
UTIC-11D, \$175	Replacement adhesive layers for PCCS2 chamber, x100



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Alternatively, if the sample does not have to be cultured on the coverslips, for example, you can place adhesive layer onto the plastic holder first, and then attach the coverslip to the holder:

1. Remove protective liner from the bottom surface to expose the adhesive.
2. Apply the adhesive side down to the bottom of the holder. Press gently to seal.
3. Remove the remaining protective liner.
4. Position a coverslip on the holder. Press gently to seal.
5. Position your sample inside the chamber.
6. Arrange inflow tubing, suction tubing and reference electrodes or probes around the sample using magnetic holders.
7. Adjust the angle of suction tubing using screws in the holder.

The chamber can be used with both stainless magnetic MA and universal IMA microscope adapters. The microscope adapters provide adjustable clamps, which can be used to fix the chamber firmly in place. This is especially useful if oil immersion objectives of inverted microscopes are used.

## **Both types of chambers PCCS1, PCCS2 and PCCS1-S, PCCS2-S are reusable.**

Polycarbonate PCCS1, PCCS2 chambers can be used with any adapter for 35mm dishes. They provide not only low-profile to access your sample with electrodes and other accessories, but a flashed bottom surface available for immersion optics. After use, the coverslip should be removed by breaking and the chamber needs to be cleaned from residual adhesive. Use a scalpel or blade to pick up the adhesive, and wash with a Adhesive Remover, or Paint Remover solution available from hardware stores (Home Depot).

Silicone PCCS1-S, PCCS2-S chambers require PCCS-21 holder with 21mm optical clearance, which fits MA or IMA microscope adapters. The chamber can be also used with hating microscope stages TC-PD-15, which have 15mm optical clearance. The adhesive can be easily removed from these chambers without destruction of the coverslip. Simply lift the chamber, while pushing the coverslip down with an appropriate tool, forceps for example.

*Example of using Low-profile chamber together with miniature holder MH-2. This multi-holder is capable of positioning several tubing around the chamber to form a perfusion system.*

