



## Cell Holder, Base Assembly

(D02-1016-956)

**Instruments:** ColorQuest XE, ColorQuest XT, UltraScan PRO, UltraScan VIS

**Purpose:** This Cell Holder Base Assembly with one or more clip-on holders (ordered separately) centers macro, semi-micro and ultra-micro, as well as other precision analytical cell holders in the transmission compartment of HunterLab sphere instruments. This assembly ensures repeatable transmission color measurements of very small volumes of clear liquids. Select one or more of the available precision cell holders by matching cell holder specifications with the desired glass or plastic analytical cells.

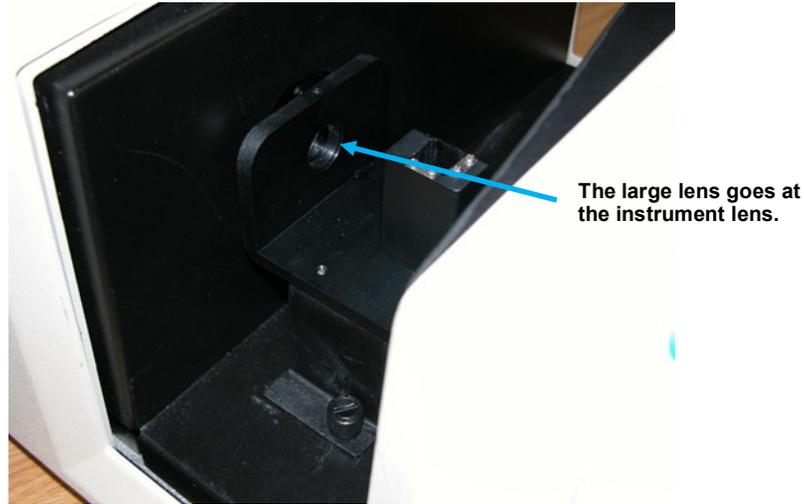
Analytical cells are purchased separately by the customer. (Works with Precision Cell Holders: D02-1016-912, D02-1016-913, D02-1017-048, D02-1017-050, D02-1017-051).

Path Length	Cell Type	Minimum Sample Volume
10	Standard	4.0
10	Semi-Micro	0.4
20	Standard	8.0
20	Semi-Micro	0.8

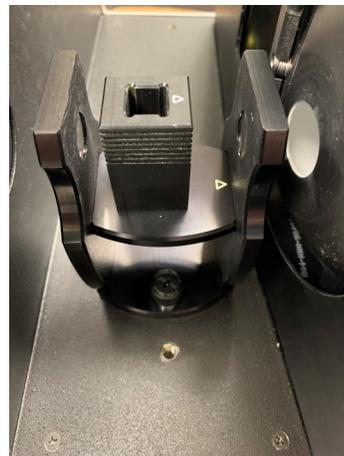
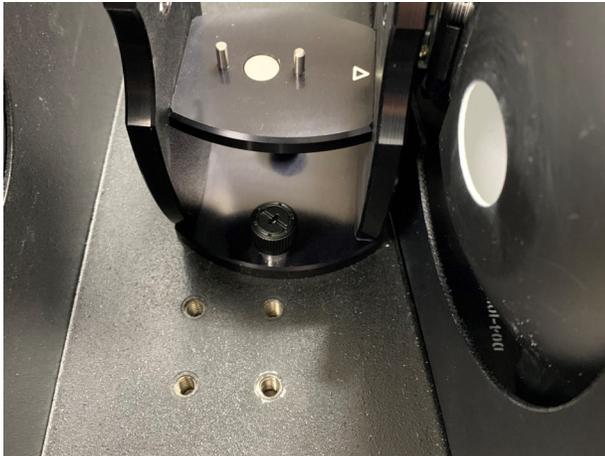


**Installation:** Complete the following steps to install and use the semi-micro cell holder.

1. Slide the semi-micro cell holder and optical assembly into the transmittance compartment at the center, widest part of the transmittance compartment with the large lens of the optical assembly toward the instrument lens and the small lens of the optical assembly toward the opening in the sphere. To help there are two sets of holes in the bottom of the transmittance compartment. The set closest to the sphere should be used to place the ( $\Delta$  or S) mark on the accessory close to the sphere as well.

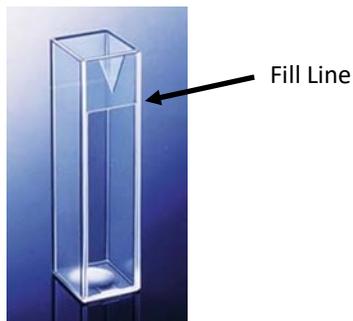


2. Ensure that the holder is in a straight line between the instrument lens and the hole in the sphere. Depress and turn the captive thumbscrews clockwise into holes in the transmittance compartment floor. If the holder is slightly off-line, reposition it so that the screws align properly in the holes on the floor of the transmittance compartment. [How to orient the Analytical Cell Holder - "S" or " \$\Delta\$ " \(zendesk.com\)](#)



### Sample Measurements:

1. Initiate standardization in TTRAN mode for the 1.000-inch (25.400 mm) area view, sliding the black card device between the cell holder and the hole in the sphere when prompted for the black card.
2. When prompted for the cell blank, fill the desired analytical cell with distilled water or another clear liquid you would like to use as your top of scale. Some cells will have a fill line. The liquid should at least reach this line.



3. Slide the transmittance cell into the cell holder as far as it will go. If your cell has an indicator arrow, point it toward the hole in the instrument sphere.



4. Complete the standardization by measuring the cell blank as the top of scale.
5. Remove the cell from the cell holder and rinse it with the sample to be measured. Fill the cell with the sample and measure it the same way you did the blank.

**Note: It is important, particularly when using disposable cells, that the same cell used during standardization be used for sample measurements.**

6. Periodically clean the two lenses on the cell holder with isopropyl alcohol and a cotton swab.