

Addendum to ColorQuest XE, ColorQuest XT, UltraScan XE, UltraScan PRO, and UltraScan VIS User's Manuals

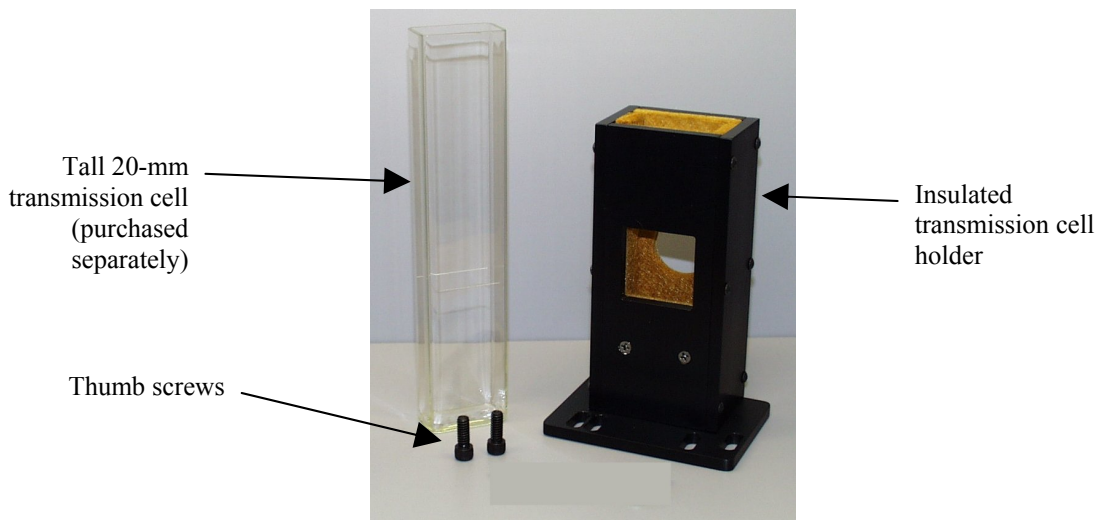
Description

CMR 2608 provides an insulated transmission cell holder for transmission measurements of hot liquids (up to 250°C) in a special, tall 20-mm transmission cell. This holder can be used for total transmission (TTRAN) or regular transmission (RTRAN) measurements using the ColorQuest XE, ColorQuest XT, UltraScan XE, UltraScan PRO, and UltraScan VIS.

This CMR consists of the following components:

- Insulated transmission cell holder
- Two thumb screws.

The tall 20-mm transmission cell (HunterLab Part Number B04-1002-672) must be purchased separately, as must the means of heating the sample liquid.



Installation

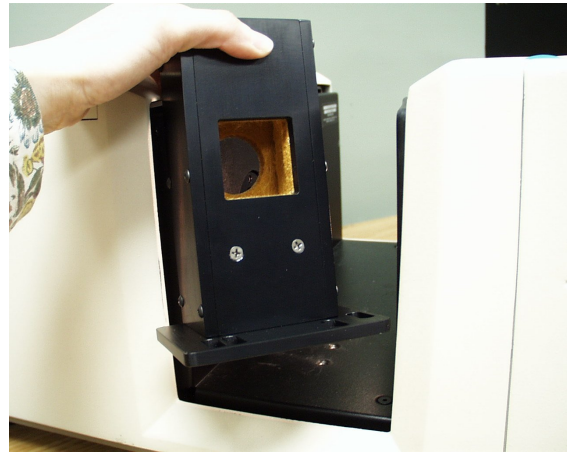
It is recommended that the instrument be placed away from direct overhead lighting to avoid stray light from entering the transmission compartment while this CMR is in use.

Install the insulated sample holder as follows:

1. Insert the insulated transmission cell holder into the transmission compartment. If you will be measuring in TTRAN mode, place the open circle in the side of the holder against the sphere. If you will be measuring in RTRAN mode, place the open circle against the lens.



Orientation for TTRAN measurements



Orientation for RTRAN measurements

2. Insert the two screws into two slots in the base of the holder so that they align with holes in the transmission compartment floor. You will use the outer slots for TTRAN mode and the inner slots for RTRAN. Tighten the screws using the provided Allen wrench. Be certain that the flat side of the cell holder is flush and secure against the sphere or lens.



Placement for TTRAN measurements



Placement for RTRAN measurements

Operation

First, standardize the instrument in the desired mode, indicating the large area of view and 1.0-inch (25.4-mm) port size to the software. You will need to read the black card before the cell holder is in place (or remove the holder) and then install the cell holder. Measure the blank the same way you would a sample, as described below.

To measure a sample:

1. Fill the tall 20-mm transmission cell at least to the scored line with the sample to be measured and heat it to the desired temperature.
2. Insert the cell as far as it will go into the sample holder.



TTRAN mode



RTRAN mode

3. Close the transmission compartment door as far as it will go (it will not close all the way) and take a reading of the sample.
4. Empty the cell, rinse, and refill it to measure more samples or replicates as desired.