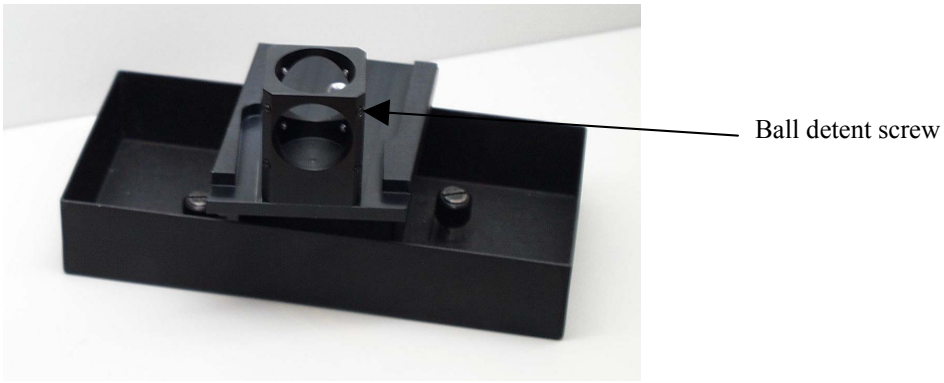
CMR 2751
01/07
Rev. 3

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

Description

CMR 2751 provides a spill tray and holder for 27-mm to 30-mm (OD) cylindrical sample tubes at the transmission port of a ColorQuest XE, ColorQuest XT, UltraScan XE, UltraScan PRO, or UltraScan VIS. This spill tray and holder may be used for TTRAN measurements of transparent liquids in cylindrical glass tubes with 20-mL, 40-mL, or 60-mL volumes, such as those that may be purchased from Qorpak (www.qorpak.com), Wheaton Science Products (www.wheatonsci.com), or Nalge Nunc International I-Chem Products (www.nalgenunc.com). The spill tray portion protects the transmission compartment from spills of liquid samples. The tray can hold up to 600 mL of liquid.



Installation

To install the spill tray and tube holder,

1. Open the instrument transmission compartment door. If you have a transmission sample holder installed, remove it. Be sure that the specular exclusion port door is closed.
2. Slide the spill tray into the transmission compartment at the center, widest part of the transmission compartment, orienting the holder so that tube-holding area is toward the transmission port. The open viewing hole in the holder must be centered over the hole in the sphere.

3. Locate the appropriate two 1/4-20 tapped mounting holes in the transmission compartment floor and fasten the tube holder to the instrument using the two thumb screws provided.

Operation

1. Standardize the instrument in TTRAN mode using the large area of view. When prompted to read the black card, slide it between the tube holder and the transmission port. Use a tube of the type you will be using for samples filled with distilled water (for water solution samples) or a clear organic solvent (for organic solution samples) as your standardization blank.
2. Remove the blank liquid and fill the glass tube with sample and then insert the tube into the open column in the tube holder. If needed, adjust the ball detent screws until the tube is held snugly in place.

3. Make your sample measurement.