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HunterLab

**CMR-3237**
03/31/2020

# Addendum for CMR-3237

## Small Area of View Port Reflectance Port Plate for USPRO & USVIS

**Instruments:** UltraScan Pro; UltraScan VIS

**Description:** This port plate is designed to hold the following magnetic round and oval caplet apertures:

- CMR-3230 – 7mm Aperture for Round Caplets
- CMR-3231 – 10mm Aperture for Round Caplets
- CMR-3232 -- 12mm Aperture for Round Caplets
- CMR-3233 – 17mm Aperture for Round Caplets
- CMR-3234 – 7x15mm Aperture for Oval Caplets
- CMR-3235 – 9x20mm Aperture for Oval Caplets
- CMR-3236 – 10x20mm Aperture for Oval Caplets

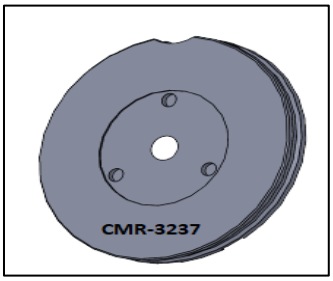


*Figure 1. SAV Port Plate*

**Installation:**

1- Insert the base SAV port plate (CMR-3237) at the reflectance port after standardization of the instrument.

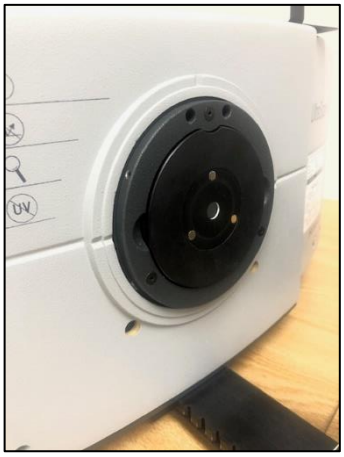

*Figure 2. SAV Port Plate*

***Note: This aperture has an opening that is smaller than the usual reflectance port opening. Performance specifications (i.e. Factory-supplied color values, stability, accuracy, etc.) are based on the standard 1-inch round transmission port opening. These specifications will not be met with the aperture in place.***

## *Reading Samples with EasyMatch QC:*

1. In EasyMatch QC, go to ***SENSOR > ADD SENSOR*** to select your sensor. Then set up the **COLOR DATA VIEW** screen to read the desired color scale, illuminant, and observer.

*Figure 3. SAV Port Plate Mounted at Reflectance Port*

2. Go to ***SENSOR > STANDARDIZE*** and select the Reflectance-Specular-Included Mode for USVIS and USPRO. Standardize using the light trap and then the white tile.
3. Place the magnetic aperture into the SAV port plate and then insert the sample to be measured. Make sure that the area of the sample to be measured faces the port.
4. Go to ***OPTIONS > AVERAGE*** and setup the averaging function,
5. Take a reading using the sample button or ***MEASUREMENTS > SAMPLE***.
6. Rotate the sample and read it at least one more time. Average the multiple color readings for a single measurement representing its color (***MEASUREMENTS > AVERAGE***). Averaging multiple readings with rotation between readings minimizes measurement variation associated with non-uniformity or texture.
7. Record the average color values.
8. With small samples, it is recommended to look at color difference using a Sample vs. a Standard instead of absolute readings. Difference measurements show excellent repeatability.

***Note: if this is the first time using EZMQC software, please refer to EasyMatch QC User Manual.***