

Addendum to USPro/USVis/CQXE User's Manual

Description

CMR3075 provides a black sample clamp disk for use as a standardized black backing for Opacity measurements of translucent samples on any HunterLab sphere instrument such as a ColorQuest XE, UltraScan Vis and UltraScan Pro.



Operation

Standardize the instrument in RSIN (Reflectance Specular Included) LAV (Large Area of View) mode using the instrument Black Trap and calibrated White Tile. SAV (Small Area of View) mode can be used if the sample is limited in size.

Under Options/Read Mode, select to display Opacity (and Y White, Y Black as options) for any of the available illuminant/observer combinations.



Opacity is a two-part measurement, first with a White background then Black background.

Use the white sample clamp disk for the White background reading. Then peel off the white disk from the sample clamp (held by magnet) and replace it with the black CMR3075 disk for the Black background reading.



As an OQ (Operation Qualification) step, make an Opacity measurement of the white disk and black disk (no translucent sample in place). It should always have an expected Opacity value near 5.7.



If a single sheet of copy paper were measured as a typical translucent sample, an Opacity value near 90 is expected.

Then continue to read the Opacity of translucent product standards or samples.