

Presenting...
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ColorQuest[®] XT

Simplified Color Measurement of Transparent Materials



- ◆ Measures the color of transparent liquids and solids.
- ◆ Metrics include APHA, Gardner, Saybolt, ASTM color, yellowness index and beer color
- ◆ Precision and sensitivity at an economical price
- ◆ Eliminates subjectivity and maximizes repeatability
- ◆ Easy-to-read, ergonomically designed, LCD touch screen simplifies operation
- ◆ Software easily customized for specific applications

ColorQuest[®] XT

Easily measure transmittance

The ColorQuest XT is a high performance colorimetric spectrometer specifically designed to measure the transmitted color of transparent liquids and solids. Products such as resins, solvents, acids, perfume and varnishes can be measured using the APHA/PtCo/Hazen and Gardner color scales. Measure gasoline, white spirits, kerosene, heating oils, lubricating oils and petroleum waxes using the Saybolt or ASTM color scale. Beer is measured using the ASBC or EBC scales and the ADMI scale would be used for accurate measurement of dyestuff in wastewater. In addition, widely used color scales and indices are included for transmission applications in the food, pharmaceutical, plastics and other industries.

Measurement Versatility

ColorQuest XT eliminates the subjectivity of visual comparison methods, allows for greater sensitivity and maximizes repeatability. The system has a large, adjustable, back-lit display that can be read in any lighting environment. This display uses touch screen technology for simplicity of operation. Prompts appearing on the display are simply touched with a finger to initiate the action. Sample ID or data entry is made simple by use of an alphanumeric keypad displayed on the touch screen. Data can be output directly to a printer or LIMS. To enhance functionality, a novel macro-scripting-language feature will allow the user to create custom applications that can be downloaded to the instrument. Commands such as prompts, measurement, mathematical equations, etc. can all be user customized. The system can also be used with a PC and HunterLab's EasyMatch[®] QC color quality control software. The ColorQuest XT has a large sample compartment that is open on three sides for easy access.

System Features

- **Modes:** Total and regular transmission
- **Transmission Compartment:** Open on 3 sides (10.2cm D X 35.6cm W X 16.5cm H)
- **Display:** Back-lit LCD with touch screen
- **Optical System:** Dual Beam Spectrophotometer
- **Spectral Range:** 400-700nm
- **Wavelength Interval:** 10nm
- **Effective Bandwidth:** 10nm equivalent triangular
- **Light Source:** Pulsed xenon lamp
- **Standards Conformance:** CIE No.15.2, ASTM D 1164 and DIN 5033
- **Illumination/Observer:** C/2°, D65/10°
- **Color Scales:** CIE L*a*b*, Hunter Lab, XYZ, Yxy, CIE L*C*h*
- **Color Difference Scales:** $\Delta L^*a^*b^*$, ΔLab , ΔYxy , ΔXYZ , $\Delta L^*C^*h^*$
- **Color Difference Indices:** ΔE^* , ΔE , ΔE_{CMC}
- **Indices and Metrics:** YIE 313, APHA, Gardner, ASTM D 1500, Saybolt, ADMI, EBC, ASBC, CIE Y
- **Other:** Spectral Data and Plot (%T and Absorbance)

For more information, please contact HunterLab at 703-471-6870, sales@hunterlab.com or visit www.hunterlab.com