Accessories

D02-1009-200  Sample Clamp Assembly
Holds samples securely at the sample port for measuring with the instrument in the port forward orientation. Includes interchangeable white and black backing.

D02-1009-350  Port Down Stand Assembly
Permits port-down mounting of the sensor. Includes an adjustable arm assembly with clamp.

LSXE-SC-ASSY  LabScan XE Sample Cup Set
Consists of 2.5 inch glass sample cup, sample cup opaque cover, ring and disk set and port insert.

04-7209-00  Glass Sample Cup: 64 mm (2.5 in)
Optically clear glass cup for sample presentation of liquids, powders, granules, and pellets.

02-4579-00  Ring and Disc Set
For use in the glass sample cup for sample presentation of liquids, powders, granules, and pellets.

A02-1010-316  Port Insert
The port insert is designed to hold the sample cup in proper position at the measuring port.

02-7396-00  Skein Holder
Sample Presentation Device used for measuring yarns and string skeins.
There’s a new dimension in the way you’ll look at measuring samples. The LabScan® XE spectrophotometer takes color measurement to a new and totally different level of sophistication, with more simplicity, more automated features and more versatility than any other product. From powders, solids and liquids, to pellets, chips, yarn or paper, LabScan® XE is the cutting-edge solution for a host of color measurement applications in plastics, textiles, paint, food, paper, chemicals, pharmaceuticals and building materials.

Features

- **Compact, Single-Piece Design** - space-saving footprint, no external power supply.
- **Dual-Beam Optics** - the optimum level of accuracy, repeatability and long-term performance.
- **Read Function Button** - next to sample port; measurement can be taken at sensor without moving hands to the computer.
- **Port-Up or Port Forward Orientation** - measure translucent liquids, opaque solids and plaques, powders, pellets or pastes.

The HunterLab Advantage

The LabScan® XE is backed by over 60 years of quality innovation and experience from HunterLab, the world’s most trusted color quality experts. With an unmatched reputation for delivering the right solution for any challenge, HunterLab tailors products and technologies for every color measurement need and budget offering the broadest range of color measurement solutions in the industry.

For more information go to [www.hunterlab.com](http://www.hunterlab.com) or contact your local HunterLab representative.

**MEASURE**

Like the eye “sees” color

0°/45° optical geometry for a better perspective on “seeing” color.

The same color, when seen on surfaces that differ by glass or texture, ends up “looking” like a different color to the human eye. LabScan® XE measures and “sees” that difference in appearance the same way the human eye does. Its 0°/45° circumferential geometry incorporates a 15-station, fiber-optic ring that collects and averages reflected light from all stations. The result is a fast, simplified measurement that automatically accounts for the effects of variations in textures, finishes or granulations.

**Versatility**

Versatility in measuring—from incoming raw materials to finished goods.

Samples come in all sizes, shapes and forms, and LabScan® XE gives you the capability to measure their color with unparalleled versatility, simplicity and accuracy. It features one of the largest illuminated sample areas available—44 mm—which gives you superior precision when scanning textured, non-uniform samples. An optional automated Variable Sample Illumination (VSI) feature allows you to measure from 44 mm to 3 mm, for maximum flexibility in the sizes and kinds of samples you can measure. The VSI feature also gives you far more accuracy in measuring translucent solids or liquids. What’s more, you can measure with the sample port facing up, forward (sideways), or with an optional stand, straight down. It also delivers superior inter-instrument agreement at multiple sites.

DESIGNED FOR

- powders
- GRANULES
- Sugar
- PELLETS
- Liquids
- detergents
- resins
- pigments
- CHIPS
- laminates
- sauces
- Soups
- SPICES
- cement & concrete
- YOGURTS
- juices
- panels & plaques
- COLORANTS
- all dry chemicals
- DAIRY
- paint panels
- fruit
- Cheeses
- powder coatings
- nuts
- Solids

Port Forward Orientation with optional sample clamp.

An optional Port Down Stand lets you view and measure samples from a straight-down angle for added versatility.
SPECIFICATIONS

**LabScan® XE**

**Measurement**

- **Measurement Principle:** Dual-beam spectrophotometer
- **Geometry:** Directional 0° illumination / 45° circumferential viewing with 15-station fiber optic ring
- **Spectrophotometer:** 256 element diode array and high resolution, concave holographic grating
- **Orientation:** Measurement port up or port forward; port down with optional stand

**Viewing Apertures**

- **Large Area View Model:**
  - Illuminated: 44 mm (1.75 in.)
  - Measured: 50 mm (2 in.)

- **Variable Sample Illumination (VSI) Model:**
  - Illuminated: 44 mm (1.75 in.), 25 mm (1.00 in.), 13 mm (0.50 in.), 6 mm (0.25 in.), and 3 mm (0.13 in.)
  - Measured: 50 mm (2 in.), 30 mm (1.20 in.), 17 mm (0.70 in.), 10 mm (0.40 in.), and 5 mm (0.20 in.)

- **Lens Zoom for VSI Option:** Automatic
- **Port Sensing for VSI Option:** Automatic sensing of port plate size
- **Specular Component:** Excluded
- **Spectral Range:** 400 nm - 700 nm
- **Wavelength Resolution:** < 3 nm
- **Effective Bandwidth:** 10 nm equivalent triangular
- **Reporting Interval:** 10 nm
- **Photometric Range:** 0 % - 150 %
- **Photometric Resolution:** 0.003 % (0.01 % reported)
- **Light Source:** Pulsed Xenon lamp, filtered to approximate D65 daylight
- **Lamp Life:** 1 billion flashes
- **Measurement Time:** < 3 seconds (except 3 mm area < 10 seconds)
- **Minimum Interval between Measurements:** 3 seconds
**Reference Standardization:** Automatic to internal reference standard

**Automatic UV Control Option:** 420 nm cutoff filter for UV control and UV exclusion

**Standards Conformance:** CIE No.15:2004, ISO7724/1, ASTM E1164, DIN 5033 Teil 7 and JIS Z 8722 Condition C

**Standards Traceability:** Instrument standard calibration traceable to the National Institute of Standards and Technology (NIST).

### Performance

| Colorimetric Repeatability: | For white tile: ∆E*< 0.09 for 44 mm (1.75 in.)  
(20 readings, Max)  
For blue denim tile: ∆E*< 0.07 for 44 mm (1.75 in.)  
Inter-Instrument Agreement: | ∆E*< 0.15 (Avg) for 44 mm (1.75 in.)  
∆E*< 0.36 (Max) for 44 mm (1.75 in.) |

### Physical / Electrical

| Dimensions: | Height: 30.5 cm (12 in.)  
Width: 19.1 cm (7.5 in.)  
Depth: 36.9 cm (14.5 in.)  
Weight: 10.4 kg (23 lbs)  
Power: 100 to 240 VAC, 47 to 63 Hz  
90 watts passive, 180 watts continuous use  
Interface: RS-232C, 9,600 baud, D9 (female) terminal  
Operating Environment: 10° - 40° C (50° - 104° F), 10 % - 90 % RH, noncondensing  
Storage Environment: -21° - 66° C (-5° - 150° F), 10 % - 90 % RH, noncondensing  
Standard Accessories: • Calibrated instrument white tile  
• Certificate of traceability  
• Black glass  
• Green diagnostic tile  
• White backing tile  
• LAV port plate  
• RS-232C cable  
• USB-to-Serial adapter  
• Power cord  
• EasyMatch QC software  
• EasyMatch QC Basic manual |