

## LabScan® XE Spectrophotometer

Specifications	
<b>Optics</b>	
Geometry	0° illumination, 45° circumferential viewing with 15-station Fiber-Optic Ring
Illumination	<i>Standard</i> Xenon flash lamp filtered to approximate CIE D65 illumination
	<i>Optional</i> Automated UV-absorbing filter (420nm) to exclude, calibrate and control source UV content
Lamp Life	1 billion flashes
Monochromator	Diffraction Grating
Detector	256-element silicon array
Measurement mode	Reflectance
<b>Spectral Performance</b>	
Wavelength Range	400nm - 700nm
Wavelength Interval	10nm
Photometric Range	0% - 150%
<b>Sample Measurement</b>	
Area of Reflectance Measurement	
<i>Large Area Illumination</i>	44mm (1.75 inch)
<i>Variable Sample Illumination (VSI)</i>	(Optional) 5 areas of illumination: 44mm (1.75 inch), 25mm (1 inch), 13mm (0.50 inch), 6mm (0.25 inch), 3mm (0.13 inch)
Reflectance Sample Port	Unobstructed for large samples
<b>Environmental</b>	
Power Input	100-240 VAC, 47-63Hz
Operating Temperature	10° - 40°C (50° - 104°F)
Storage Temperature	-20° - +70°C (-4° - +158°F)
Operating Humidity	(RH, noncondensing) 10% - 90%
<b>Communication</b>	
Communications Interface	RS-232C Serial DB9



*LabScan® XE with our rugged and dependable DP-9000® processor measures incoming raw materials or finished goods in harsher plant environments.*

# More Versatility, More Performance

Measure color from a whole new perspective.



LabScan® XE

### HunterLab - providing color quality measurement systems worldwide.

Dedicated to worldwide support through local representation, HunterLab provides over 50 years of experience to meet the color measurement needs of customers in 68 countries. We offer the industry's most comprehensive set of end-to-end solutions—an integrated package of resources, from the complete array of instrumentation, software, and support services to training, education and decades of know-how.

For more information, call HunterLab today at 1-703-471-6870. Or visit our Web site at [www.hunterlab.com](http://www.hunterlab.com)

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# LabScan® XE

Spectrophotometer – Engineered for performance, designed with automated simplicity.

## Measure the color of samples of all forms, sizes and textures—the way the eye “sees” color.

Now there's a whole 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 available on the market today.

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.

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

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

## New versatility in measuring—from incoming raw materials to finished goods.

Samples come in all sizes, shapes and forms, and now LabScan XE gives you the capability to measure their color with unparalleled versatility, simplicity and accuracy. For instance, it features one of the largest illuminated areas available—44mm—which gives you superior precision when scanning textured, non-uniform samples.

An optional automated Variable Sample Illumination (VSI) feature allows you to measure from 44mm to 3mm, 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.

In addition, LabScan XE delivers superior reading agreement between multiple instruments.

## Color formulation or QC, in the lab or on the plant floor.

LabScan XE is well suited to both quality control and color formulation applications. You can have it tied in with a PC in the lab or production, running with our Universal Software®

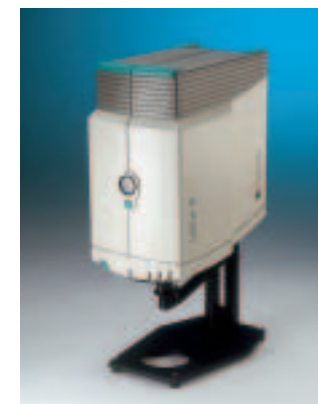
for QC, or with our breakthrough EasyMatch® software—for color formulation or QC, or both. Or, use it in combination with our rugged and dependable DP-9000® processor in harsher plant environments.

## Standard features that set a new standard.

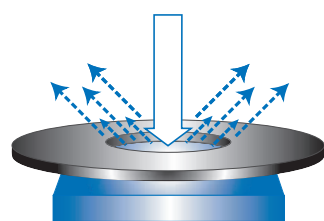
- 0° Illumination/45° Detection—measures and accounts for variations in textures and finishes: “sees” color the way the eye does.
- 44mm (1.75 inch) Reflectance Port—one of the largest available for a spectrophotometer; wider variety of sample sizes and textures, better view of sample.
- Xenon Lamp—never needs replacement, best match to D65.
- Automatic Reference Standardization—internal tile to maintain optimum measurement stability.
- No Fan or Air Filter—virtually noiseless operation, low maintenance.
- 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 liquids, solids, powders or pastes.

## Optional features—for an array of new possibilities.

- Automated Variable Sample Illumination—user sets illumination to desired size (from 44mm to 3mm); computer checks agreement between port plate, illuminated area and standardization mode for error-free measurement; user can store and recall standardization modes quickly.
- Sample Position Viewing at Port—provides precise location of sample area to be measured.
- Quick Release Sample Clamp—easier to position samples at port, better clearance for large or odd-sized samples.
- Port Down Stand—allows textile or paper samples to be viewed without “pillowing” effect.
- Automated UV Control and Calibration—system automatically controls UV content for consistent measurement of optically brightened samples.
- Automated UV Included/Excluded Filter—allows measurement with and without UV energy to quantify sample fluorescence.



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



To the eye, the same color, when seen on surfaces that differ by gloss or texture, appears to be a different color. LabScan® XE measures and “sees” that difference the same way the human eye does.

