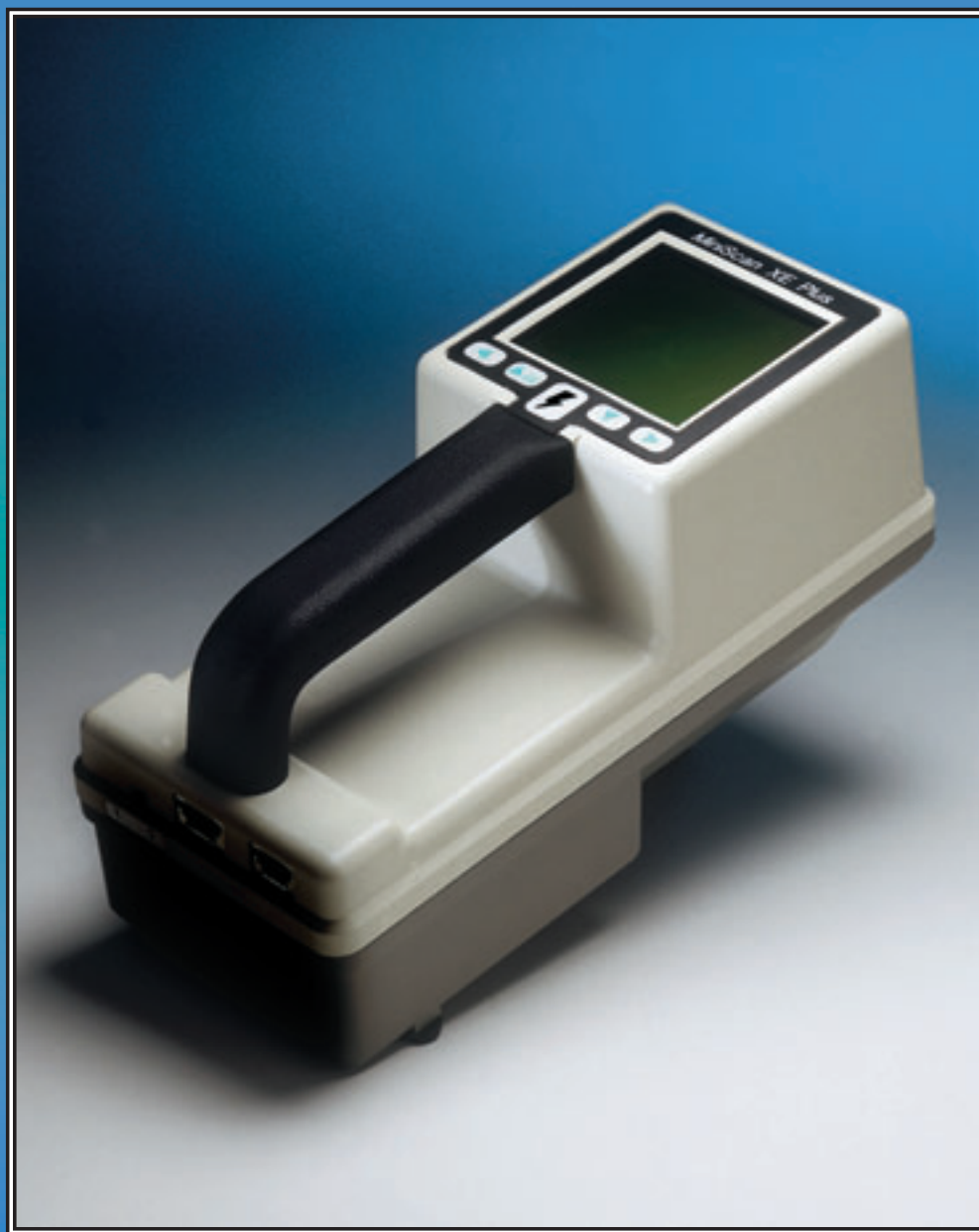


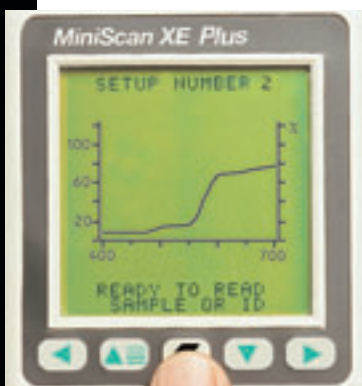
Portable Color Measurement – Now More Versatile Than Ever



MiniScan[®] XE Plus

MiniScan® XE Plus

Advanced features and optimum accuracy —
whenever and wherever it's more productive for you.



MiniScan® XE Plus is the latest innovation from the HunterLab family of MiniScan® portable, spectrally based color measurement instruments. Designed for rugged, real-world use, and now with enhanced features that make it even more user-friendly, MiniScan XE Plus saves time by reducing trips back to the lab, while it delivers unparalleled accuracy.

Now make color measurements when and where it's more productive for you or your process — the production line, the plant floor, the warehouse or the loading dock. Portability with MiniScan XE Plus means go anywhere, any time — with economical rechargeable battery packs — not cords or restrictive cables.

MiniScan XE Plus offers a new level of versatility in lightweight, one-handed color measurement across a wide range of applications — for paint, plastics, textiles, paper, food, and building products.

Choose the optics and viewing size that's right for your product.

Since no two applications are alike, MiniScan XE Plus is available in five different configurations: three different viewing sizes plus two optical configurations. These options ensure the most accurate measurement of your application or samples.

User-friendly features that add up to performance and versatility — all in the palm of your hand.

- Weighing in at less than 3 pounds, measuring just 10 inches long, and with a comfortable, rubberized grip, MiniScan XE Plus is a truly portable instrument that's easy to carry and use.
- Compared to other configurations with separate measurement heads and data processing units, the MiniScan XE Plus combines both in one package. Large keys surrounding an easy-to-read LCD display provide true single-handed operation with easy access to all user functions and displays.
- Select the way you want to display readings — 0°, 90°, 180° or 270° — for easy viewing from any position.

Multiple standard types — more convenience and continuity.

For comparing the color of samples to a standard, MiniScan XE Plus gives you the flexibility to enter the standard values several ways: by reading a color standard, or by entering the color's standards manually. To measure absolute color values, or when a previous color management system database exists, a hitch feature helps ensure agreement with those values and protects your investment in time, effort and equipment.



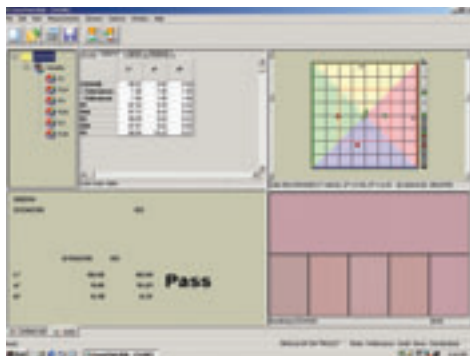


Pass/Fail indication – automatic or custom tolerances.

Setting Pass/Fail tolerances is quick and easy with MiniScan XE Plus. Tolerances can be placed on any color scale, color difference, or indices, providing flexibility to assess the quality of many product attributes. And, the standard CMC color difference method yields automatic, acceptable tolerances. This translates into faster implementation of a color control program and increased productivity – a significant improvement over other systems.

Compatible with a variety of software packages.

As versatile as it is to operate, its ability to interface with a range of software is yet one more level of flexibility you get with MiniScan XE Plus. Use it with one of HunterLab's Quality Control of Color Formulation packages.



Versatility in color measurement – the way you and your customers expect it.

What about different kinds of applications within the same product line? And how do you meet specific customer requirements for reporting color data? With MiniScan XE Plus, you just punch in the numbers. You can tailor up to 99 customized setup configurations to suit specific product or customer requirements. Each setup includes these parameters:

- **Color Space, Illuminant, Observer**
To specify the conditions under which the sample is viewed
- **Standard Values**
To identify the product standard or target to be matched
- **Pass/Fail Tolerances**
Per your product specifications
- **Averaging**
To provide accurate measurements of uneven or inconsistent materials
- **Display Format**
To communicate color as effectively and simply as possible. Choose from:
 - Color Data, Absolute relative to Standard
 - Color Plot
 - Spectral Data
 - Spectral Plot
 - Spectral Difference Plot

Each configuration is retained in memory and can be loaded from a PC to facilitate setup of one or more instruments. And, the setups can be linked to one another to display sample data in a variety of formats without having to remeasure. It's versatile, adaptable, and simple.

555 shade numbering.

Available 555 shade numbering allows you to easily identify and group textiles and fabrics together for use or shipment. Combined with automatic tolerancing via CMC, MiniScan XE Plus adds up to the ideal choice for textile color control.



A variety of sample-handling accessories allows users to monitor and control product color throughout the entire production process regardless of the form – wet/dry coloring agents, customer acceptance panels, intermediate and finished product.





MiniScan[®] XE Plus

Specifications					
By Geometry	45°/0°		Diffuse		
	LAV	SAV	LAV	SAV	VSAV
Port Size (mm)	31.8	6.0	25.0	14.3	6.0
Viewed Area	25.0	5.0	20.0	8.0	4.0
Reproducibility	0.15	0.25	0.15	0.15	0.15

(Avg. DE* on BCRA II Tile Set)

Specifications

<i>Color Scales And Color Differences</i>	Hunter L, a, b CIE L* a* b* CIE L* c* h° CIE ΔL* C* H* CIE XYZ CIE Yxy FMC II
<i>Indices</i>	Delta E, E*, E(CMC), C, C* Z%, 457 and Y Brightness Metamerism Index (MI) GrayScale 5-5-5 Shade Numbering Whiteness, Yellowness Opacity Strength
<i>Illuminants</i>	A, C, D65, F, TL84
<i>Observers</i>	2°, 10°

Other Specifications

<i>Spectral Range:</i>	400 nm to 700 nm
<i>Spectral Resolution:</i>	10 nm
<i>Spectral Bandwidth:</i>	<12 nm
<i>Wavelength Accuracy:</i>	1 nm
<i>Photometric:</i>	0-150%
<i>Light Source:</i>	Xenon Flash
<i>Lamp Life:</i>	>500,000 Flashes
<i>Display:</i>	LCD (6.4 cm x 6.4 cm)
<i>Display Orientation:</i>	0°, 90°, 180°, 270°
<i>Power Supply:</i>	NiCd Battery Pack, Rechargeable, Replaceable or External 120/220V AC Adapter
<i>Approximate Size (W x H x L):</i>	10.2 cm x 12.7 cm x 25.4 cm
<i>Weight:</i>	3 lbs. (1.3 kg)

Suggested Models

Geometry	Products				Industries					
	Opaque Solids	Powders/Pellets	Translucent Semi-Solids	Metals	Plastics	Textiles	Coatings	Food	Paper	Printing
45°/0° LAV	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
45°/0° SAV	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Diffuse LAV	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Diffuse SAV	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼
Diffuse VSAV	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼

HunterLab – providing color management solutions worldwide.

Dedicated to worldwide support through local representation, HunterLab provides over 50 years of experience to meet the color management needs of customers in 70 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

EasyMatch and MiniScan are registered trademarks of Hunter Associates Laboratory, Inc.
©2004 Hunter Associates Laboratory, Inc.



ISO 9001:2000 Certified

Hunter Associates Laboratory, Inc., 11491 Sunset Hills Road, Reston, VA 20190-5280
Phone: 703-471-6870 Fax: 703-471-4237 sales@hunterlab.com www.hunterlab.com