



ERX130

Measure Color on Variegated and Small Patterned Samples



Stable, Accurate Measurements on the Production Machine

Color shifts during production can result in costly waste, rework, and delayed time to market. The ERX130 is an inline, non-contact spectrophotometer that meets the needs of a variety of industrial applications. This compact yet durable device can capture continuous measurements on a wide range of textured, finely patterned, matte, and glossy industrial materials, including vinyl, plastic pellets, woven or knitted textiles, carpets, pigments, paints, plasters, films, and bulk goods like powders and sands.

Avoids Costly Production Line Errors for a Fast ROI

The ERX130 spectrophotometer takes reflectance measurements on the line throughout production. When paired with ESWin software, it alerts of material, process, or control disturbance and offers guidance so operators can make immediate corrections without stopping production. By identifying a color shift before it is visible to the human eye, changes can be made before the batch is ruined and automatic closed loop color control is possible.

Special Advantages of ERX130

- Coaxial geometry, wide measurement distance of 300mm (11.8"), and large 90mm (3.5") measurement spot deliver a good average of the measured surface.
- Excellent spectral resolution of 1nm reliably and repeatably measures critical colors for demanding applications.
- Coaxial illumination and observation homogeneously illuminate textured surfaces.
- Ambient light, web speed and normal flutter do not influence measurement accuracy.
- Automatic internal calibration of the system also includes auto-matic wavelength calibration for excellent measurement accuracy and long-term stability to guarantee high, reproducible measurement accuracy.
- Easy to operate and offers comparisons to specific standards or absolute measurements.

Specifications

Illumination	Direct, typical 22.5°
Measurement Geometry	Coaxial to the illumination (= 45° to the gloss axes)
Spectral Measurement Area with UV	330nm ... 730nm
Spectral Resolution (optical)	1nm
Absolute wavelength accuracy with internal automatic control	Better than 0,1nm
Dual beam (sample and reference channel)	Simultaneous
Measurement Time	20ms
Measurement area	90mm (3.5") diameter
Measurement Working Distance	300mm (11.8")
Distance variation with error $dE^* < 0,2$	± 10 mm
Measurement interval	20 sec typ., 3 sec min.
Short Term Repeatability	$\Delta L^*, \Delta a^*, \Delta b^* \leq _0.03$
Inter-instrument agreement between ERX50 systems based on a white tile	$\Delta L^*, \Delta a^*, \Delta b^* \leq _0.1$
Average color difference for measurement of the 12 BCRA standards from production average	$\Delta E^* < 0,3$
Communication with Computer	CAN-Bus, with interface converter on LAN or USB
Calibration (traceable to PTB)	Instrument specific white standard Including automatic, internal calibration

Service Support and Warranty

Drawing on our extensive experience in the world of color, X-Rite Pantone offers the right level of services, onsite and online, to support and nurture your business. Call on us for standard color services and training, or work with us to tailor training and services to your specific needs. We help you get color right the first time, right every time. For more information about extended support options, visit www.xrite.com/extended-warranties-services.

For more information about ERX130, please email inline@xrite.com.