ERX145

Non-Contact Inline Spectrophotometer

Monitor Color Accuracy on the Coating Line

The ERX145 is engineered for non-contact color measurements on coil coating lines, effectively preventing costly color errors, particularly in environments with frequent color changes, through continuous process monitoring.

Manufacturers of pre-coated metal used in construction, transportation, household appliances, and furniture can accelerate time to market while ensuring high product quality. With its 45°:0° measurement geometry, the ERX145 can be mounted on a traversing beam over the production line to detect color shifts early, preventing roll waste. It provides excellent correlation with the ERX45 Lab spectrophotometer and delivers objective evaluations in line with accepted international standards, ensuring the integrity of inline measurement programs.

Precise Color Measurement for Maximum Efficiency

When paired with ESWin QC software, it provides actionable guidance so operators can make immediate corrections without stopping production.

- **Superior Color Accuracy**: With its advanced dual-beam design and precise 45°:0° measurement geometry, the ERX145 provides unparalleled color accuracy, crucial for maintaining product consistency and quality.
- **Effective and Efficient:** By detecting color shifts early and providing continuous process monitoring, the ERX145 reduces production waste and rework, leading to significant cost savings and improved efficiency.
- **Absolute Wavelength Calibration:** Offers exceptional precision (0.07 nm), ensuring outstanding long-term stability and accuracy.
- **Optional Gloss Measurement:** The GlossFlash 6060 can be installed alongside the ERX145 to evaluate both color and gloss over the entire length and width of the coil.
- **Turnkey Installation:** Easily integrates into existing production lines making it a versatile choice for a wide range of production environments in the coil coating industry.

ERX145 Non-Contact Inline Spectrophotometer

Specifications

ERX 145	
Geometry	45 a: 0 deg
Spectral measurement area with UV	330 nm -730 nm
Spectral Resolution (optical)	1 nm
Absolute wavelength accuracy with internal automatic control	Better than 0.1 nm
Dual beam (sample and relevance channel)	Simultaneous
Measurement Time	20 ms
Measurement Area	30 mm
Measurement distance (illumination head sample)	60 mm
Distance variation with error dE* < 0,2	± 10mm
Measurement interval	3 sec
Reproducibility CIELAB (standard deviation for repeated difference measurements of the white standard)	dL*, da*, db* ≤ 0.03
Inter-instrument agreement between ERX145	dL*, da*, db* ≤ 0.1
Average color difference for measurement of the 12 BCRA standards from production average	dE* < 0,3
Size	282 x 298 x 269 mm^3
Weight	13.5 kg
Protection	IP 53, CE Mark
Calibration (traceable to PTB, German Institute of Standards)	Instrument specific white standard
Communication with computer	CAN-Bus, with interface converter on USB
Ambient temperature	max. 50°C

Service Support & 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 ERX145, please visit **https://www.xrite.com/categories/inline-spectrophotometers/erx145.**

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