

INLINE COLOR MEASUREMENT SYSTEM

ERX145

— FOR COIL COATING INDUSTRY —

ADVANTAGES

- ✓ Possible corrections before production is out of tolerance result in reduced waste
- ✓ Continuous process monitoring, therefore early identification of disturbances (material, process, control)
- ✓ For fast manual and automatic control, resulting in stable production and faster and better color changes
- ✓ Documentation of the production (ISO 9001)



**MORE THAN 800 SUCCESSFUL
INLINE INSTALLATION
WORLDWIDE.**

**FOR FURTHER INFORMATION
WWW.ERX50.COM**

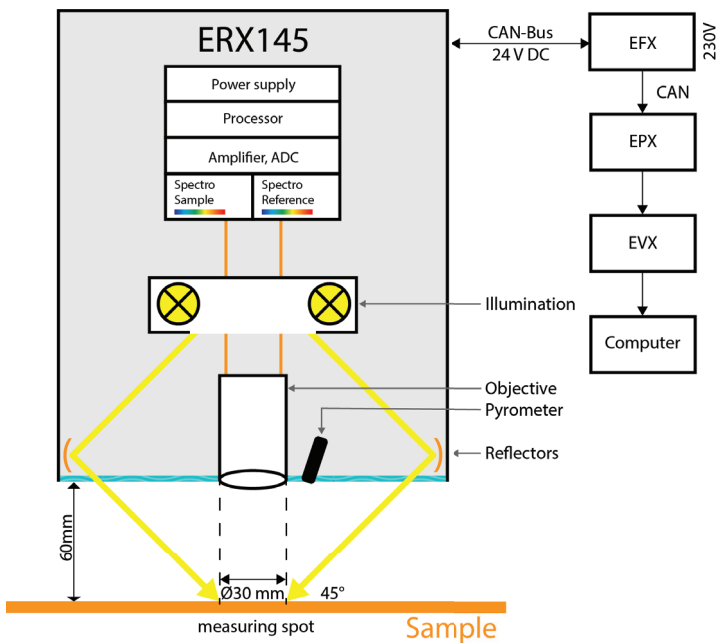
x-rite

PANTONE®

FUNCTIONAL DESCRIPTION

OVERVIEW

GEOMETRY	anular
DISTANCE	60 mm
MEASURE SPOT	Ø30 mm



ERX145



The ERX145, the successor device of the Teleflash, is in combination with the Traverse the optimum measuring system for coil coating.

For a measurement a sample will be illuminated by white light (Xenon flash lamp, daylight similarity).

Simultaneously with the sample measurement a reference measurement of the lamp will be taken with a second high resolution spectrometer (full dual beam design).

Color measurement at its best

- ✓ Measurement can be triggered by external signal
- ✓ Ambient light does not influence the measurement
- ✓ Insensitive to web speed and normal flutter
- ✓ Easy to service through service modules

Successfully since 1987

- ✓ Proven systems with the latest technology
- ✓ Next generation with improved technical data
- ✓ Development and production in Germany
- ✓ Installations worldwide

INLINE MEASUREMENT

Turnkey Inline color measurement system

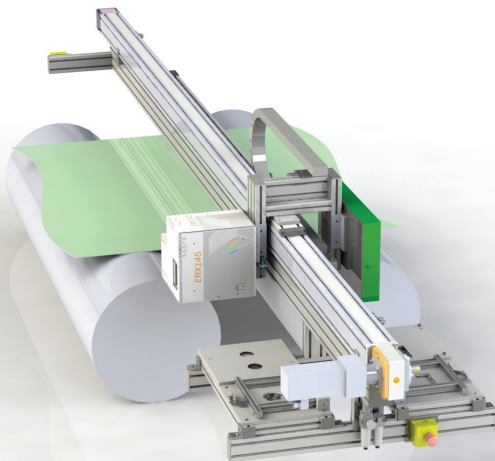
The Inline spectrophotometer is typically sold as turnkey system directly from the manufacturer, including traversing beam, software and computer. Support and service are available around the world. At X-Rite you find the experienced experts and proven partners for your color measurement and Closed Loop Color Control!

Precise spectral color measurement

Also critical colors and demanding applications can be measured with high quality based on the excellent spectral resolution of 1 nm. The wide spectral range of the ERX145 from 330 nm to 730 nm gives excellent information.

Automatic measurement and calibration

Precise color measurement because of automatic calibration with the traverse. Absolute automatic wavelength calibration with highest precision (0.07 nm). Therefore very good long-term stability and precision.



ERX145 in Production

- ✓ Longer distance to the measurement product
- ✓ CAN Bus for faster and more secure data transfer
- ✓ Modular setup, thus even easier to service
- ✓ Rough surfaces are measured reliably
- ✓ Measurement area for good averages

Stable and accurate

- ✓ Excellent long term stable results with real spectral resolution (1 nm)
- ✓ Automatic measurement 24 hours, 365 days
- ✓ Stable against distance variations
- ✓ Long-life Xenon flash lamp
- ✓ Robust casing (IP 53)

TECHNICAL DATEN

Color Sensor **ERX145**

Geometry	45 a : 0 deg
Measurement	anular
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 reference channel)	simultaneous
Measurement time	20 ms
Measurement area	30 mm
Measurement distance (illumination head -sample)	60mm
Distance variation with error $dE^* < 0,2$	± 10 mm
Measurement interval	3 sec
Reproducibility CIELAB (standard deviation for repeated difference measurements of the white standard)	$dL^*, da^*, db^* \leq 0.03$
Interinstrument agreement between ERX145 systems Based on a white tile	$dL^*, da^*, db^* \leq 0.1$
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	13,5kg
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

Power Interface **EPX**

Input Voltage	115V/230 V AC, +25% / -15%, 45-440 Hz
Power consumption	max. 50VA, typ. 25 VA
Measurement head interface	max. 20 m cable
Size approx.	265 x 265 x 155 mm (10.4" x 10.4" x 6,1")
Weight approx.	2,3kg
Protection	IP 65, CE Mark

Computer Interface **ECX**

Input Voltage	115V/230 V AC, +25% / -15%, 45-440 Hz
Power consumption	max. 100 VA, typ. 10VA
Interface to EPX trough CAN-Bus	max. 500 m cable
USB interface to computer	typ. 1.5 m, max. 3m cable
Size approx.	265 x 265 x 135 mm (10.4" x 10.4" x 5.3")
Weight approx.	2.4 kg
Protection	IP 65, CE Mark



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