



Increased speed and colour accuracy.

The EFI™ ES-3000 spectrophotometer is designed for print, design, and imaging professionals who rely on accurate colour throughout their digital workflow.



Efficient and accurate measuring

Equipped with industry-leading technology, the ES-3000 delivers the highest quality measurement readings for printer calibration, ICC profile creation, output optimisation, and spot colour readings. It also allows users to monitor calibration and profiling. The ES-3000 is X-Rite® Graphic Arts Standard (XRGGA) compliant. This ensures reliable and repeatable data exchange between other XRGGA instruments and all links in the colour supply chain.

Combined with EFI Fierly® Color Profiler Suite, users get the most complete toolset for any print environment, and one that's especially suited for use with Fierly Driven™ printers.

Benefits

- Measures M0, M1, and M2 simultaneously in a single pass to account for optical brighteners
- Reads patches twice as fast as the EFI ES-2000 in M0 and M1 modes with improved accuracy
- Equipped with a full-spectrum LED light source, for single-pass scanning, plus improved device reliability and accuracy
- Reads smaller patches than the ES-2000, with improved accuracy
- Achieves correct calibration on high-brightness displays (up to 5k NITS)
- Accommodates an added Kensington Lock for increased security
- Features an ergonomic design for easy cleaning and smooth scanning for accurate measurements

EFI ES-3000 Spectrophotometer

Spectral engine

- X-Rite i1Pro 3: i1[®] technology (holographic diffraction grating with 128 pixel diode array) with built-in wavelengths check
- Spectral range: 380 - 730 nm
- Physical sampling interval: 3.5 nm
- Optical resolution: 10 nm
- Spectral reporting: 380 nm to 730 nm in 10 nm steps
- Sampling rate (Hz): 400 measurements per second

Optics

- Measurement geometry: 45°/0° ring illumination optics, ISO 13655:2017
- Measurement aperture: 4.5 mm (0.18") diameter (effective measurement aperture during scanning depends on the patch size and measurement speed)
- Light source: Full-spectrum LED light source

Reflective measurement

- Measurement conditions:
 - M0 – UV included – ISO 13655:2017
 - M1 – D50 – ISO 13655:2017
 - M2 – ISO 13655:2017
- OBC: Optical brightener compensation (OBC) with Fiery Color Profiler Suite software
- Calibration: Manual on external ceramic white reference
- Measurement background: White, ISO 13655:2017; for measurements on backup board
- Minimal patch size in spot mode:
 - 6 x 6 mm (width x height)
- Minimal patch size in scanning mode:
 - 6 x 7 mm (width x height) with i1iO
 - 7 x 7 mm (width x height) with sensor ruler
 - 10 x 7 mm (width x height) without sensor ruler
- Maximum scan length: 260mm
- Inter-instrument-agreement: 0.3 dE00 average, 0.8 dE00 maximum (deviation from X-Rite manufacturing standard at a temperature of 23°C (73.4°F) on 12 BCRA tiles (D50, 2°))
- Short-term repeatability: 0.05 dE00 on white (D50, 2°, mean of 10 measurements every 3 seconds on white)

Emissive measurement

- Measurement range: 0.2 - 5000 cd/m² on a typical LCD-monitor
- Short-term repeatability: x, y ±0.002 typ. (5000 K, 80 cd/m²)

Interface

- USB 1.1

Power supply

- Device powered by USB. No additional charger or battery required. USB 1.1 high-power device.

Operating conditions

- Temperature: 10°C – 35°C
- Humidity: 0% – 80% non-condensing

Storage conditions

- Temperature: 0° to 45°C

Physical dimensions

- ES-3000 device: 162 x 69 x 64 mm (length x width x height)
- ES-3000 ruler: 337 x 102 mm
- ES-3000 device backup board: 355 x 265 mm folded or 355 x 400 mm unfolded
- Weight of ES-3000 device: 285 g

Software compatibility

- Fiery Color Profiler Suite 5.3.1 and above
- Fiery Command WorkStation 6.5 and above
- Fiery Spot-on™ and Fiery Spot Pro
- EFI ColorGuard™
- Fiery XF 7.2 and above

EFI fuels success.

We develop breakthrough technologies for the manufacturing of signage, packaging, textiles, ceramic tiles, and personalised documents, with a wide range of printers, inks, digital front ends, and a comprehensive business and production workflow suite that transforms and streamlines the entire production process, increasing your competitiveness and boosting productivity. Visit www.efi.com or call 0808 101 3484 (UK only) or +44 (0)1246 298000 (UK), or +61 (0) 7 3625 9200 (ANZ and Asia Pacific) for more information.



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