



# Increased speed and color accuracy.

The EFI™ ES-3000 spectrophotometer is designed for print, design, and imaging professionals who rely on accurate color 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 optimization, and spot color readings. It also allows users to monitor calibration and profiling. The ES-3000 is X-Rite® Graphic Arts Standard (XRG) compliant. This ensures reliable and repeatable data exchange between other XRG instruments and all links in the color supply chain.

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

## 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: 0.18" (4.5 mm) 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:
  - 0.24" x 0.24" (6 x 6 mm) (width x height)
- Minimal patch size in scanning mode:
  - 0.24" x 0.28" (6 x 7 mm) (width x height) with i1iO
  - 0.28" x 0.28" (7 x 7 mm) (width x height) with sensor ruler
  - 0.40" x 0.28" (10 x 7 mm) (width x height) without sensor ruler
- Maximum scan length: 10.24" (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/m<sup>2</sup> on a typical LCD-monitor
- Short-term repeatability: x, y ±0.002 typ. (5000 K, 80 cd/m<sup>2</sup>)

## 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: 50°F (10°C) – 95°F (35°C)
- Humidity: 0% – 80% non-condensing

## Storage conditions

- Temperature: 0° to 45°C

## Physical dimensions

- ES-3000 device: 6.4" x 2.7" x 2.5" (162 x 69 x 64 mm) (length x width x height)
- ES-3000 ruler: 13.3" x 4.0" (337 x 102 mm)
- ES-3000 device backup board: 14.0" x 10.4" (355 x 265 mm) folded or 14.0" x 15.7" (355 x 400 mm) unfolded
- Weight of ES-3000 device: 285 g (10.1 oz.)

## 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 personalized 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](http://www.efi.com) or call 650-357-3500 for more information.



Nothing herein should be construed as a warranty in addition to the express warranty statement provided with EFI products and services.

The APPS logo, AutoCal, Auto-Count, Balance, BESTColor, BioVu, BioWare, ColorPASS, Colorproof, ColorWise, Command WorkStation, CopyNet, Cretachrom, Cretaprint, the Cretaprint logo, Cretaprinter, Cretaroller, Digital StoreFront, DocBuilder, DocBuilder Pro, DockNet, DocStream, DSPdesign Studio, Dynamic Wedge, EDOX, EFI, the EFI logo, Electronics For Imaging, Entrac, EPCount, EPPhoto, EPRegister, EPStatus, Estimate, ExpressPay, FabriVU, Fast-4, Fiery, the Fiery logo, Fiery Driven, the Fiery Driven logo, Fiery JobFlow, Fiery JobMaster, Fiery Link, Fiery Navigator, Fiery Prints, the Fiery Prints logo, Fiery Spark, FreeForm, Hagen, Inkintensity, Inkware, LapNet, Logic, Metrix, MicroPress, MiniNet, Monarch, OneFlow, Pace, Pecas, Pecas Vision, PhotoXposure, PressVu, Printcafe, PrinterSite, PrintFlow, PrintMe, the PrintMe logo, PrintSmith, PrintSmith Site, PrintStream, Print to Win, Prograph, PSI, PSI Flexo, Radius, Remoteproof, RIPChips, RIP-White-Print, Screenproof, SendMe, Sincolor, Splash, Spot-On, TrackNet, UltraPress, UltraTex, UltraVu, UV Series 50, VisualCal, VUTEk, the VUTEk logo, and WebTools are trademarks of Electronics For Imaging, Inc. and/or its wholly owned subsidiaries in the U.S. and/or certain other countries.

All other terms and product names may be trademarks or registered trademarks of their respective owners, and are hereby acknowledged.