

FlexoLite™ Flexo Plate Analysis System



FlexoLite™ is a portable image analyzer for dot quality on flexographic plates and films. Brought together by QEA's state-of-the-art image analysis technology, this handheld instrument integrates a high-resolution microscope, a Pocket PC, a backlight, and highly sophisticated software into an easy-to-use and quantitative tool for all your flexo plate quality analysis and quality control needs.

Improve Quality, Eliminate Waste, and Do It Right the First Time

FlexoLite™ is a powerful, yet cost-effective tool for evaluating flexographic plate quality.

- **Portability**
Its compact design makes possible analysis anytime, anywhere.
- **Comprehensive plate quality metrics**
Dot%, dot size, shape, line screen, and screen angle empower you with all the critical information to control plate quality or to resolve quality problems objectively and decisively.
- **Highlight dots and stochastic screen measurements**
The intelligent software enables you to analyze these hard-to-measure areas easily and accurately.
- **Easy operation**
The benefits of a digital CCD camera, high resolution optics, and a Pocket PC offer live viewing of images and touch-screen, interactive operations – all packaged into an innovative, handheld device.
- **Seamless interface with PC**
The FlexoLite™ can be used standalone or interface via USB to your PC for seamless transfer of data and images.

FlexoLite™ is the must-have tool to put quality into your flexo plates. It is simply a joy to all flexographic professionals. No more guesswork and subjective debates!

A Rich Family of Products

FlexoLite™ is a key player in QEA's family of highly-acclaimed, state-of-the-art IAS® image analysis systems. It is a cost-effective, portable instrument for dot quality measurement on flexographic plates and films. It can also be upgraded to the comprehensive Flexo IAS® for plate, film and print quality analysis.

For more information about FlexoLite™ and other QEA products, visit www.qea.com or contact us at info@qea.com, 781-221-0080.

Other IAS® products for flexographic printing:

Personal IAS: Portable image analysis system for print quality evaluation.

Flexo IAS: An all-in-one portable analyzer that measures quality attributes on flexo plate, film, and print.

Flexo-M: For reflective read on metal-backed plate, letterpress, newsprint, laser-ablated mask, direct-engravings, and all types of ITR & sleeves.



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System Specifications*

Functional Data

Measurements	Dot % and Area % (AM or FM screen) Line Screen (lines/cm or lines/in) Screen Angle (deg) Dot Quality Diameter Circularity Area Box Ratio Perimeter
Typical Applications	Flexo Plate and Film Quality control Plate Calibration Cutback curve Min dot compensation / bump curve
Software Features	Highlight and touching dot analyses Live image viewing ROI based analysis on live or stored image Two-point distance measurement Auto dot-size filtering Auto dark/light dot detection Auto plate brightness calibration Up to 8X zoom capacity Pass/fail tolerances Statistics and graphical plots
Data Storage & Handling	PC compatible data files Saving and retrieval of captured images ActiveSync file transfer with PC

Physical Specifications

Description	Portable digital image analyzer with backlight
Display	Hyper amorphous silicon TFT 65,536-color LCD (320×240)
Accessories	Hard-sided carrying case AC-power adapters (100-240 V _{ac}) USB cable User's manual Backup software
Power Requirements	Rechargeable battery for analyzer One 9V battery for backlight AC-adapters included (100-240 V _{ac})
Size	Analyzer (cm): 23.1×9.4w×5.3h [9.1"×3.7"w×2.1"h] Backlight (cm): 24.2×19w×6.5h [9.5"×7.5"w×2.6"h]
Weight	Analyzer: 0.85 kg Backlight: 1.12 kg
Shipping	Analyzer: 46cm×38cm×23cm [18"×15"×9"] 3.6 kg [8 lbs] Backlight: 36cm×28cm×18cm [14"×11"×7"] 2.3 kg [5 lbs]

Technical Specifications

Measuring Geometry	Transmissive: Broadband collimated backlight
Detector	Color CCD (640x480 pixels)
Resolution	5 µm per pixel
Aperture Size	2.4mm×2.4mm
Screen Ruling	Range 18-236 lines/cm [45-600 lpi] cm or inch display selectable
Substrates	Flexo Plate: Digital, conventional Capped, uncapped Digital mask Film
Plate Size	Unlimited
Plate Thickness	0.45mm-6.5mm+ 0.0165"-0.25"+
Minimum Dot Size	< 1% dot at 250 lpi
Repeatability (spatial)	Better than ±2 µm
Repeatability (dot %)	Better than ±1% at 200 lpi
Calibration	Factory calibrated Automatic brightness setup
Measuring Time	6 seconds typical (depends on measurement function)