

## 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](http://www.qea.com) or contact us at [info@qea.com](mailto: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

<b>Measurements</b>	<b>Dot % and Area %</b> (AM or FM screen) <b>Line Screen</b> (lines/cm or lines/in) <b>Screen Angle</b> (deg) <b>Dot Quality</b> Diameter                      Circularity Area                            Box Ratio Perimeter
<b>Typical Applications</b>	<b>Flexo Plate and Film</b> Quality control <b>Plate Calibration</b> Cutback curve Min dot compensation / bump curve
<b>Software Features</b>	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
<b>Data Storage &amp; Handling</b>	PC compatible data files Saving and retrieval of captured images ActiveSync file transfer with PC

## Physical Specifications

<b>Description</b>	Portable digital image analyzer with backlight
<b>Display</b>	Hyper amorphous silicon TFT 65,536-color LCD (320×240)
<b>Accessories</b>	Hard-sided carrying case AC-power adapters (100-240 V <sub>ac</sub> ) USB cable User's manual Backup software
<b>Power Requirements</b>	Rechargeable battery for analyzer One 9V battery for backlight AC-adapters included (100-240 V <sub>ac</sub> )
<b>Size</b>	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]
<b>Weight</b>	Analyzer: 0.85 kg Backlight: 1.12 kg
<b>Shipping</b>	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

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