The IAS-3000P is a print quality analysis system designed specifically for quality sampling in a production environment. At the touch of a button, the system performs objective measurements on labels, cards, or other samples up to about 4” x 6” inches, eliminating the need for subjective visual inspection and manual measurements.

Print quality is measured and analyzed; defects are detected; test data are saved; and quality statistics are generated for design verification, process control, and quality management purposes. The IAS-3000P is an ideal tool for verifying quality in a fast-paced production environment.

The compact desktop design, with a footprint about the size of a notebook PC, comprises a light source, a camera for image capture, and a positioning tray for the sample. QEA’s sophisticated IASLab® image analysis software quantifies critical image features, generates real-time pass/fail decisions, archives measurement results and statistics, and generates quality management reports.

The operator initiates the test by placing a sample in the holder and pushing a button. The IASLab software does the rest.
**IAS®-3000P**

*System Specifications*

**FUNCTIONS AND FEATURES**
- Automated analyses with IASLab®, the IAS-3000P’s advanced image quality analysis software platform
- Analysis of real-time images
- All measurements in calibrated, physical units including spatial dimensions, reflectance, optical density and color
- Numerical results saved to a Microsoft Database (MDB) file and images to bitmaps
- User-selectable results formats; zoom and color channel display

**ANALYSIS TOOLS AND ATTRIBUTES**
- Dot (blob) quality analysis (size, shape, x-y locations, dot%, and screen angle)
- Line, edge and text quality analysis (line width, bluriness, raggedness, density, contrast, fill, location, and orientation; line attributes analyzed per ISO-13660 where applicable)
- Solid area attribute measurements (density, reflectance, L*a*b*, tone reproduction, gradient, graininess, mottle and background; area attributes analyzed per ISO-13660 where applicable)
- Graphics quality (size, density, color, uniformity)
- Defect detection (void analysis)
- Barcode reading tool (available as option)
- Barcode verification (Code 128 and 39; available as option)
- OCR available as option
- Real-time pass/fail reporting (determination based on user-specified limits)

**TYPICAL APPLICATIONS**
For labels, cards, or other samples produced by digital or other printing technologies:
- Incoming inspection
- Process monitoring and development
- Quality control
- Diagnostics and problem-solving
- Quality management

**SAMPLE DIMENSIONS AND PROCESSING TIME**
- Optimized for samples up to about 4” x 6”
- Testing takes just a few seconds. Processing time varies depending on factors such as the size of the sample, the number of measurements per sample, and the complexity of the analyses performed.

**SYSTEM COMPONENTS (QEA-SUPPLIED)**
- IASLab control software
- Enclosure with sample positioning tray, camera, and light source
- Calibration targets
- All necessary cables and connectors

**MINIMUM PC REQUIREMENTS (CUSTOMER-SUPPLIED)**
- PC running Windows® 7 to 10, 64-bit (with Microsoft Office Professional® including Excel 2007 or later, recommended)
- RAM: 8GB or more
- One USB 3.0 port

**ELECTRICAL REQUIREMENTS**
- 110 Vac±10% @ 50/60 Hz or 230 Vac±10% @ 50/60 Hz

**OPERATING ENVIRONMENT**
- Temperature: 10 to 32 C (50 to 90 F)
- Relative humidity: 20% to 80% (non-condensing)

**DOCUMENTATION**
- Quick Start Guide
- User’s Guide

**NOTE ON TEST SEQUENCES**
- There is no limit to the number of test sequences that can be created for an application. However, as the IAS-3000P itself is specially designed for operator use and not for R&D, it does not contain the tools needed for sequence creation. Instead, test sequences are created by engineers using software from one of our IAS-2000-series products. The engineers provide the sequences ready-made to their production colleagues, and the sequences are plugged in to the IAS-3000P for use on the production floor.

**Specifications subject to change without notice. Rev. 160309**