IAS-1000AS™

An Automated Scanning Color Measurement System Brought To You By QEA, Innovator In Image Quality Measurement

Why do we need another Color Measurement System?

Problem:

- Color management has become un-manageable.
 - In printer profiling, don't you feel that there are simply too many colors to measure, too much data to handle, always short on time, and never have enough hands around?

The QEA Solution:

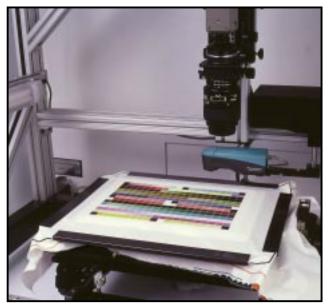
The highly automated IAS-1000AS helps you get more done quickly and reliably using a computerized scanning and reporting system.

Problem:

- Color measurement has become un-measurable.
 - Today's business opportunities go beyond printing on paper. How do you handle textiles & other flexible samples that are distorted? What about foam boards or other unconventional substrates that pushes beyond your existing profiling equipment's capabilities?

The QEA Solution:

The IAS-1000AS handles difficult samples with ease and grace: a special mount for textiles, a sophisticated fiducial algorithm to automatically handle fabric distortion, and adjustable table height for testing a broad range of sample thickness.



IAS-1000AS Automated Scanning Color Measurement System

Features at a Glance

Automation & Flexibility

• Automated high speed measurement of color charts on paper, textiles, vinyl, foam board and other substrates without human intervention

Colorimetric & Densitometric Measurements

• Measurement of spectral, colorimetric, and densitometric values with reliability and precision.

Reflection & Transmission Measurements

• Measurement in both reflection and transmission modes for opaque and transparent colors.

User Programmable Test Sequence

• Programmable test sequence for high speed scanning of various designs of color charts.

User Friendly Software

• Field-proven user-friendly software to develop measurement sequence reliably and rapidly.

Compatibility

• Output fully compatible with most popular color profiling software.

Expandability

• System fully expandable to a powerful image evaluation system with objective print quality analysis, gloss scanning, and automated document feeding.

IAS-1000AS[™] Automated Scanning Color Measurement System

Typical Applications

- Color measurement for printer color profiling
- Color measurement for printer color quality attributes: color gamut, density, and tone reproduction
- Color measurement for production color quality monitoring

System Specifications*

Spectral Measuring Head

- Spectral Analysis holographic diffraction grating
- Spectral Range 380 to 730 nm
- Physical Resolution 10nm
- Light Source gas gilled tungsten
- Measurement Aperture 4mm, standard (option: 8mm)
- Measurement Geometry 45/0 ring optic, DIN5033
- Colorimetry: CIE-XYZ, CIE-xyY, CIE-L*a*b*, CIE-L*C*h
- (Illumination types: D50, D65, A, C, F1...F12)
- Standard Observers: 2°, 10°
- Measurement Range Reflection: 380-480, 650-730 nm: 0-200% 480-520, 600-650 nm: 0-150% 520-600 nm: 0-120% Density DIN 16536: 0.0D – 2.5 D
- Short-term repeatability: 0.03 ΔE* CIELAB (D50, 2°), mean value of 10 measurements every 10s on white
 - Density Standards DIN 16536 (ISO Status E) DIN 16536 NB (ISO Status I) ANSI Status A ANSI Status T

Other System Hardware

• Instrumentation; data acquisition and control hardware; including all necessary interface electronics, cables, and connectors

Positioning Stage

- Range: Letter and A4, standard; other sizes available
- Step Size: 16 µm (0.0006 in)
- Maximum Linear Speed: 5.1 cm/sec (2 in/sec)

Vacuum Generator for Sample Hold Down

Vacuum pump included

Control Software

• Control software provides all measurement, data acquisition, and data analysis functions

Computer Configuration (customer-supplied)

- Pentium PC
- Microsoft Windows ® 95/98/ME
- Microsoft Excel ® 7.0 or higher

Electrical Requirements

• 110 VAC±10% @ 50/60 Hz or 230 VAC±10% @ 50/60 Hz

Maintenance and Operating Environment

- Requires good maintenance practices typical for laboratory equipment
 - Temperature Operating: 10° to 32° C (50° to 90° F) Storage: 0° to 35° C (32° to 95° F)
 - Relative humidity Operating: 20% to 80% Storage: 10% to 95% (non-condensing)

Dimensions and Shipping Weight

- Approximate dimensions for standard letter/A4 configuration (consult factory for A3 option)
- Main Unit: 119 cm x 94 cm x 127 cm (47"x37"x50")
- Approximate total weight, standard letter/A4 configuration (2 pieces): 200 kg (440 lbs)

Documentation

- User's Guide
- * All specifications subject to change without notice.