# Objective Image Quality Analysis Instrumentation for "Turning Adjectives into Numbers"

- Appearance/Print Quality Quantification:
  - Tone (Grey Scale)
  - Color Reproduction
  - Sharpness & Details
  - Image Defects
  - Gloss & DOI
- Functional Analysis on Components & Systems:
  - Inkjet print head QC; flexo/offset printing plate analysis
  - Process control & failure analysis
  - Security features & print quality on security prints
  - Forensic analysis and counterfeit detection
  - Texture analysis
- Tools
  - Image analysis systems
  - Spectroscopy & spectrophotometry (visible & beyond)



#### PIAS-II, a Compact, Versatile Image Quality Analysis System





- Handheld OBJECTIVE print quality analysis, anytime, anywhere
- High resolution, quantitative
- Research, development, standards, specifications, quality control, forensic analysis communications ...

- Interchangeable optics for multispectral analysis UV-VIS-NIR
- UV fluorescence, IR absorption,
  IR fluorescence, anti-stoke
  features, OVD optical variable
  devices, OVI optical variable ink,
  ...



#### PSpec, a Family of Innovative Handheld Spectrophotometers



Color & Density Analysis on prints



UV Fluorescence spectral analysis



• Color analysis – textiles, plastics, ceramics, metals, paint, coating, ...



IR absorbance spectral analysis



### **IAS-2000 & IAS-1000 Automated Print Quality Analysis Systems**





- High speed document scanner with automatic document feeder
- High productivity quality analysis system
- Quality statistics
- Quality management

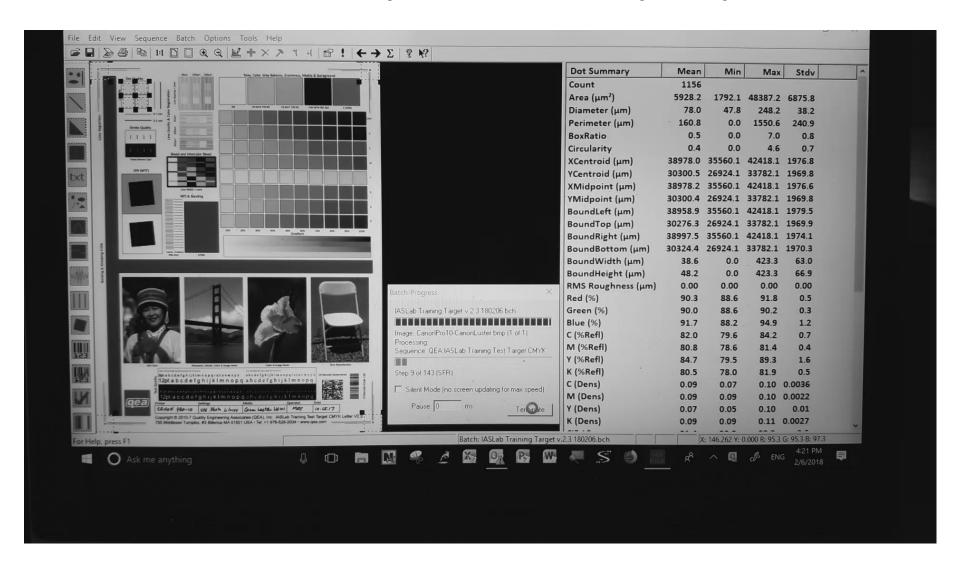


#### **IAS-1000 Family**

- Large format quality analysis system
- Integrated, comprehensive quality analysis
- Statistical process control
- Quality management

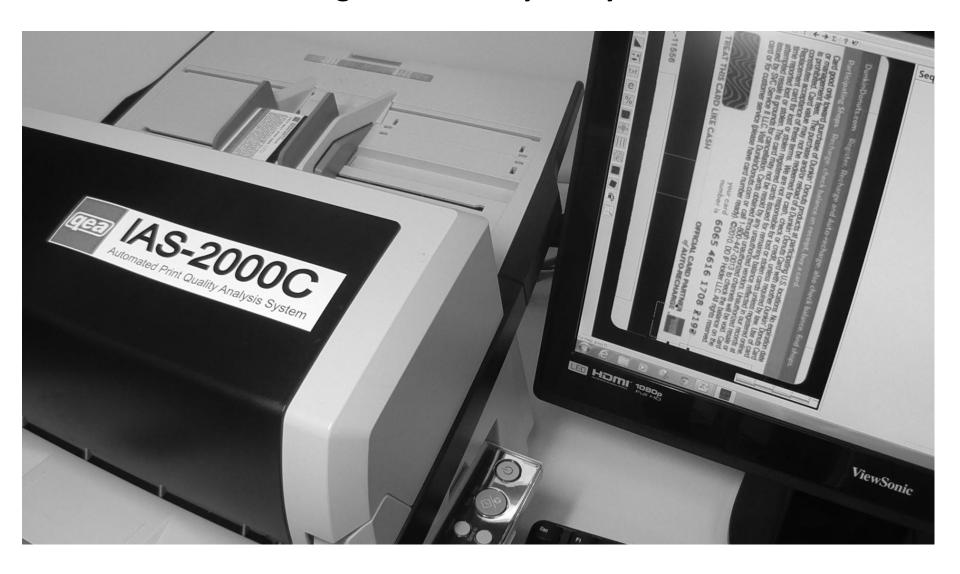


#### **Automated Objective Print Quality Analysis**





## **High Productivity Analysis**





## **Scanning Spectrophotometry (Color Measurement)**

