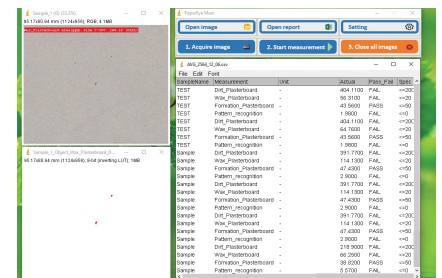


“Versatile image analyzer for paper surface analysis”

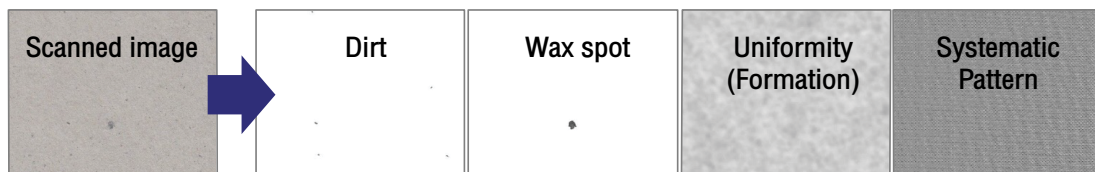
The PRECISEPRO “Versatile Image Analyzer” is a scanner-based image analysis system designed for measuring various paper surface properties i.e. visible objects/contaminants and uniformity of surface within single scan. Some of applications include measurement of dirt (according to TAPPI-T563), stickies, wax, surface uniformity, print mottle and systematic pattern. Our system is designed for effective paper quality control with flexibility to set up new measurements to meet specific needs.

Advantages

- Flexibility for customizing of measurement modules
- Multiple measurement modules (ex. dirt, formation and systematic pattern) within single scan and automatically compared with specifications for pass/fail decision
- Great flexibility to set up new measurements for your specific surface quality problems **such as surface uniformity test that matches with your visual evaluation score**
- Run-through mode to automatically measure all scanned images in specified folders



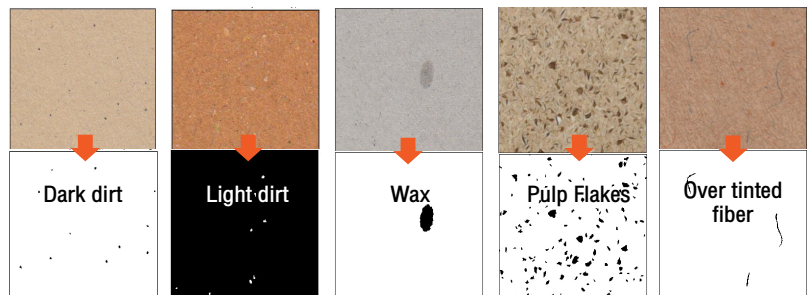
PaperJ



Multiple measurements in single scan

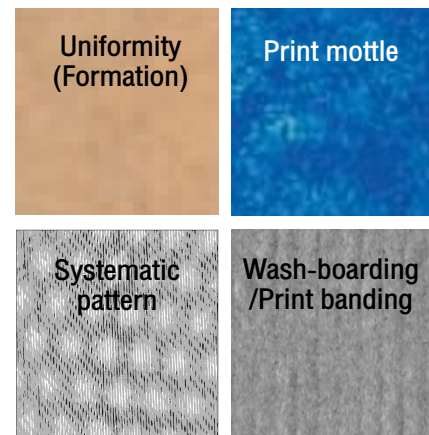
Applications

- **Object detection based on color, contrast, size and shape**
- Dirt (equivalent black area, EBA, both dark and light contaminants)
- Wax spots
- Stickies on black filter paper (according to TAPPI T237)
- Shives and flakes in pulp handsheet
- Over tinted fiber
- Print un-coverage
- Other customized measurements is available upon request



Example of object detection

- **Surface uniformity (available module)**
 - Paper surface uniformity (surface formation)
 - Coating uniformity
 - Print mottle
 - Systematic pattern such as couch and wire marking on the surface
 - Wash-boarding and print banding of corrugated board
 - Other customized measurements is available upon request



Example of surface uniformity

PRECISEPRO : Image Analysis Software

- **User friendly**
 - Easy to use for routine quality control and also great tools for problem analysis
 - Test results are saved in CSV format and can be opened in MS Excel
 - Auto generated test report in PDF format

Convenient

- Selectable measurement modules of your needs or request new measurements to match your specific quality problems
- Software is designed for easily setup new test methods for specific needs
- Multiple measurements in single scan and compared with specifications for pass/fail decision
- No need to purchase specific testers (ex. dirt and formation) separately
- Run-through mode for measuring multiple images in the folder to save measurement time

Reliable and Powerful

- T563 pre-calibrated
- Already proven installments



System and Connection

- High quality flatbed scanner with TAPPI-T563 pre-calibrated. Maximum resolution 6400 dpi.
- Scanning Speed for A4 sheet: approx. 7 sec for 150 dpi, 10 sec for 300 dpi and 25 sec for 600 dpi Runs on PC with windows 7 and up