

More Than a Century of Testing Solutions

Spec\*Scan 2000/2001 is a grayscale image analyzer for pulp, paper and paperboard. Images are obtained using a desktop scanner and analyzed for specks, dirt, residual ink, pulp shives, printed patterns and other objects that optically contrast with the paper substrate by their size and reflectivity. The software also measures their size, location, grayscales and shape and generates reports. The measurements, of both size and reflectivity, are in accordance with TAPPI T-437 which states the estimated equivalent black area of a gray or colored speck is smaller than its actual area in inverse proportion to the intensity of its color contrast with its background.

Spec\*Scan uses a simple statistical method to quantify differences in formation quality by analyzing the frequency distribution of the gray scale value of each pixel in the specimen sample image.

## **Operation Modes**

Scan-to-Screen Mode: View the sample and study it in detail on your computer screen. This mode provides an image zoom, dynamic grayscale adjustment and a detailed display of results, speck area histograms, grayscale statistics, speck locations and sizes, sheet summaries and category listings. All set-up parameters are displayed on a single screen.

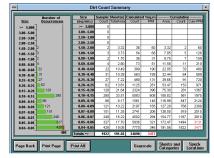
Scan-to-Printer Mode: High-speed mode oriented to scanning the samples and printing the results. By eliminating much of the operators interaction, this mode allows production analysis at the highest possible speed. It prints the same data as in other modes.

System requirements include a standard PC and a high resolution document scanner. A continuous sheet feeder is available to rapidly test a sample roll.

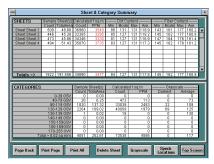
Ink Jet print quality can be evaluated by attaching a low end ink jet printer. Spec\*Scan then evaluates sheets by printing a specific multi-colored pattern and measuring wicking and bleed properties as a function of the ink migration.

Specifications subject to change without notice.

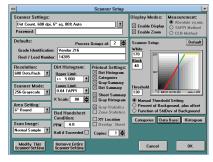
## Spec\*Scan Image Analyzer Software



▲ Speck count, total area & PPM; and reflectivity for specks and background of each sheet in group.



▲ Specks sorted by average grayscale value (reflectance) & size for EBA Calculation.



▲ One set-up screen with all image analysis & measurement parameters displayed.

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