Vector System - Particle Sizing Set-Up

CANTY features a visually verifiable particle sizing system for use in a lab or in a online environment. Systems are provided as a complete unit including a camera with manual micro zoom lens, uniform fiber optic lighting, a vibration tray to hold/move samples, and packaged together in a standard or weatherproof housing. Systems are available for particles 1 micron and above. Canty Particle Sizing Systems also permit lab personnel to characterize process material for direct online measurements.

The Components

There are three components to a CANTY particle sizing system: the Vision System, the Canty Light, and the CANTYVISIONCLIENT™ software with the Particle Sizing Software Module.

The Canty Vision System

The Vision System is used to provide a video image for sizing analysis. No lasers are needed! The Vision System actually provides a live, full video picture of your sample. With many Canty Particle Sizing Vision Systems, a user can simply choose the type of sample they wish to run analysis on and our system will move to previously calibrated set points. These set points allow for repeatable data. Canty can also analyze particles as small as 1 micron and above. The video from this Vision System is then fed to the CANTYVISIONCLIENT™ Software for analysis.

The Canty Light

In order to properly illuminate the particles, a CANTY light is integrally mounted to your Vision System, thus providing video and lighting in the same compact connection. This high yield process light supplies the illumination necessary to provide a clear, crisp view of the particles in your process.

CANTYVISIONCLIENT™ Software

The CANTYVISIONCLIENT™ Software is the key to processing the video data supplied by the Vision System. The CANTYVISIONCLIENT™ Software is installed on a microprocessor based analysis system which analyzes the images received from the CANTY Particle Sizing Vision System. Each image is dynamically analyzed to provided two dimensional information on particle size, length, width, aspect ratio, distribution, and other useful information. Once the image is analyzed and particle sizing data is established the system then can output the data as a 4-20mA signal, as a OPC Output, to a database, or saved locally as a spreadsheet.