

Filter Dryer Optimization

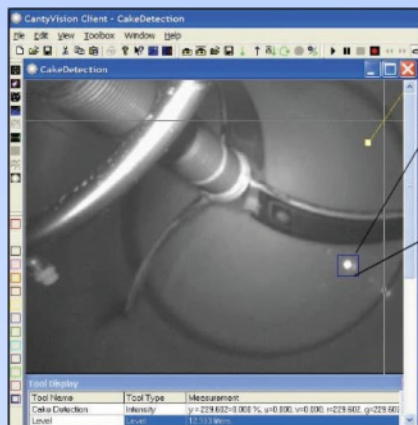
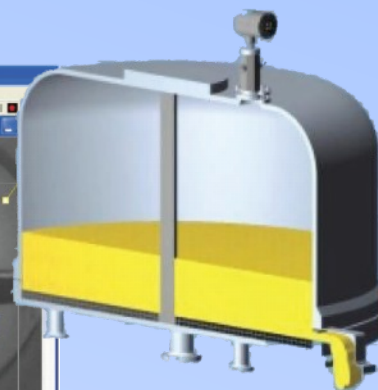
The latest in imaging camera technology, combined with high intensity LED lighting, is mounted to your filter dryer vessel to provide an unrivalled remote view from the control room into your process.

A jet spray ring system is incorporated to ensure the camera view through the fused glass process barrier is clean at all times, ensuring a continuous clear view of your process.

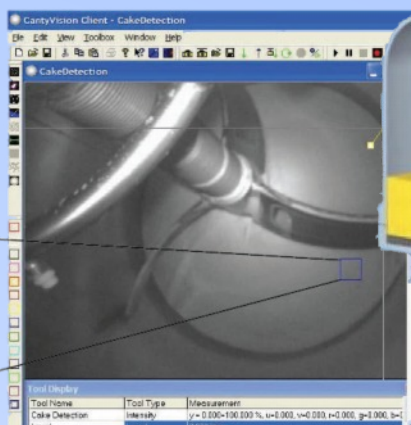
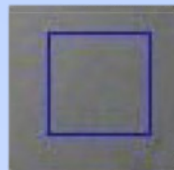
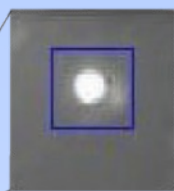
Using an intensity measurement algorithm, CautyVision™ imaging software can be configured to determine the exact filtration end point, and send a signal to the DCS via OPC or 4-20mA.

The liquid surface reflects a bright spot created by the vision system's integral light source. The wet cake surface does not, and so the exact transition point at which the cake emerges is determined.

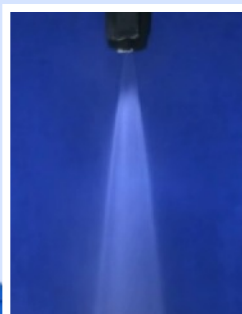
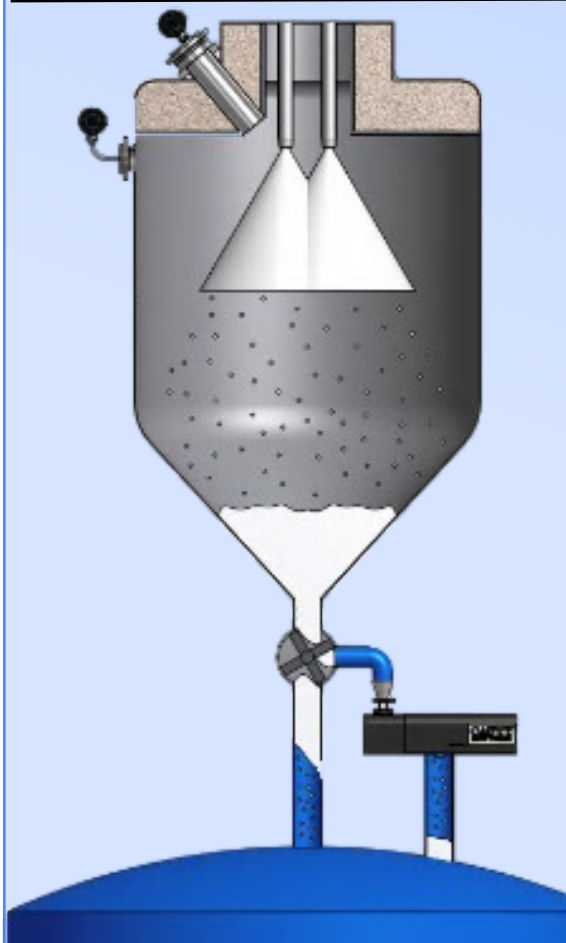
This avoids the possibility of a cracked cake surface due to drying out of the product, and also allows for a more efficient washing regime, which in turn increases throughput by reducing the number of washing cycles required.



LIQUID SURFACE



CAKE SURFACE



Spray Dryer Monitoring

CANTY Spray Dryer Monitoring Systems are vision based, industrial camera / light combinations used to view spray nozzle patterns in real time. This allows operators to see changes in the profile of the spray pattern, and detect clogging before it becomes a problem. Operators can easily view for product build-up before there is a chance for fire.

This Vision System can be automated by the Cauty Vector™ Image Processor to measure the size and shape of the spray pattern profile. Alarms can then be sent to the control system if nozzles clog or the spray pattern changes.

The CANTY SolidSizer™ and Vector™ System can be used simultaneously with the spray nozzle monitoring system to determine the final product size. Particles ranging from .002" to .24" (50 micron - 6mm) are analyzed using 2 dimension imaging software for true size and shape information.

Results can be sent to the control system, allowing pressure adjustments to be made automatically.

A full particle size distribution can be obtained or just critical measuring points. All results can be saved to a file for a historical record.

- Fiber Optic "Cold" Light Means No Product Bake-On
- Fused Glass Interface
- Multiplexing Video Inputs
- World Wide Approvals to FM, CSA, and ATEX
- Single Nozzle Viewing / Illuminating
- Remote Dimmer
- Spray Rings Available For Cleaning
- Multiple Outputs Such As 4-20mA, Or TCP/IP Interfaces Can Be Used