J.M. Canty International Ltd.

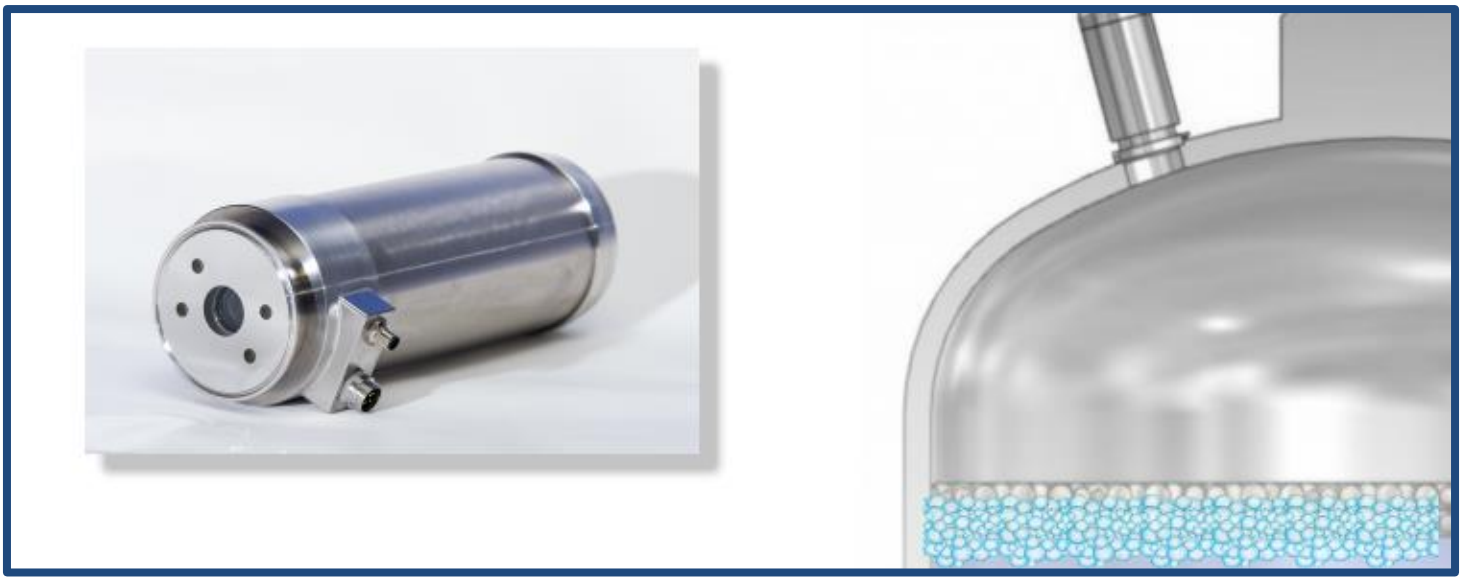
JM Canty International Ltd. is a world leader in the manufacture and supply of vision based process instrumentation. This includes vessel sight glasses & lighting, process vessel and high temperature cameras, and vision based particle sizing equipment, for a wide variety of industries, primarily pharmaceutical, chemical, biotechnological and oil & gas.

Vision Without Limits

Canty specializes in vision based equipment. The unique analytical systems for cell analysis, foam control and dissolution monitoring use integrated fused glass technology and a bespoke software suite to acheive unparalled process monitoring.

Canty Foam Control

Bioprocess foaming occurs throughout a cell culture and must be constantly monitored to prevent filter blockages, overflow and excess foam issues. The standard mitigation technique is the visual inspection and injection of antifoaming agents which necessitate further downstream processing. Operators must decide upon antifoam injection based on what is seen at these distinct timepoints.

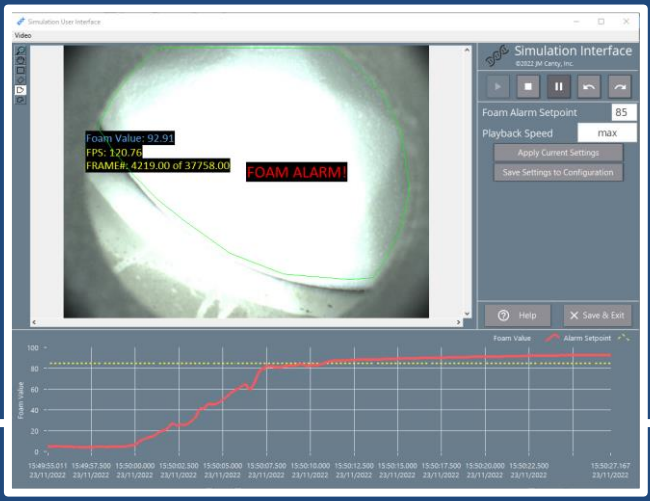


Automation of these antifoam inputs can thus reduce downstream processing and mitigate the risk of over foaming. The Canty technique replaces the visual inspection with an automated live image achieved with a camera. Canty foam control operates using a vision based principle to capture live images of the process as foam is forming. The Cantyvision software suite uses advanced image processing techniques to detect light reflection from the bubbles of the foam itself.

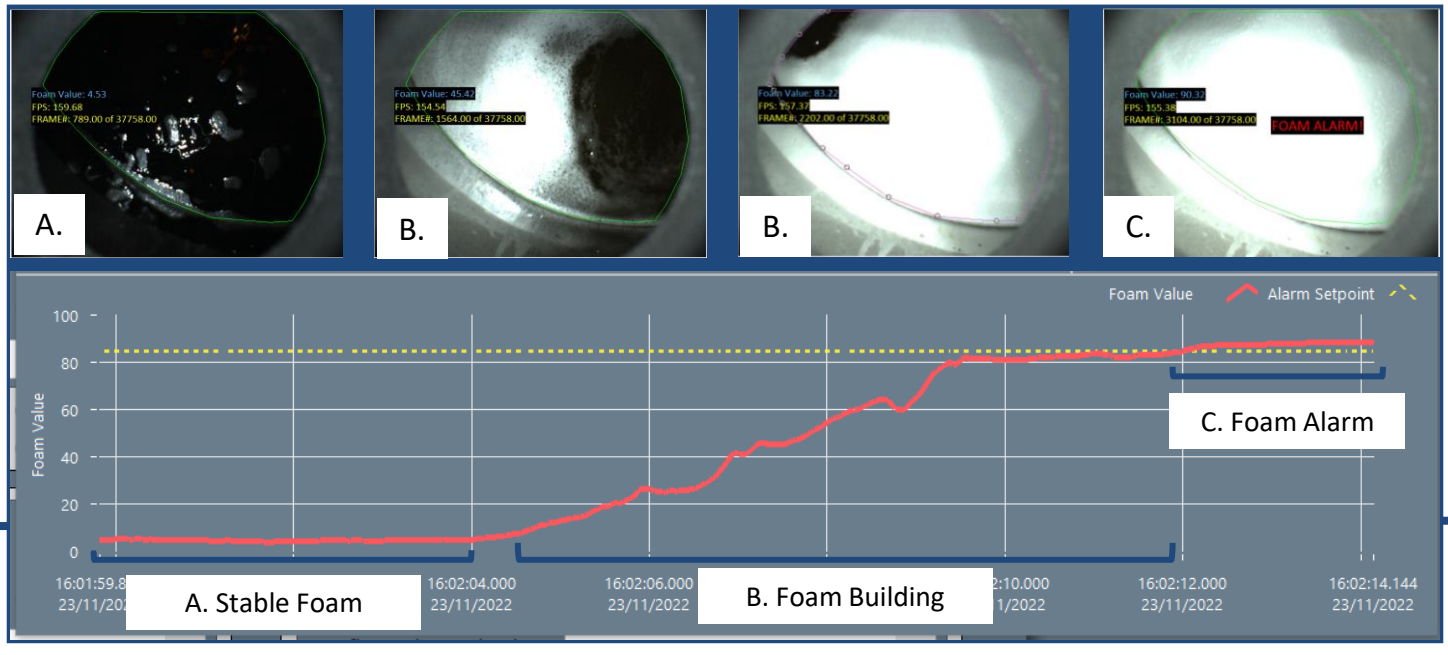
Biocam

The CANTY BioCam™ is a process camera engineered and designed for sanitary applications. The BioCam™ combines the latest in LED lighting with Ethernet camera technology in a streamlined package.

The Canty VCM computing module is equipped with the latest Cantyvsion optical analysis software, capable of running up to 6 cameras in real time.



Foam Monitoring Demo



Labcam

The CANTY LABCAM™ system incorporates a strip lighting LED setup with a smaller ethernet camera to fit in a laboratory benchtop situation. The optics facilitate live monitoring of benchtop bioreactors to prevent foam outs and investigate antifoam mitigation properties.

Foam Monitoring Demo