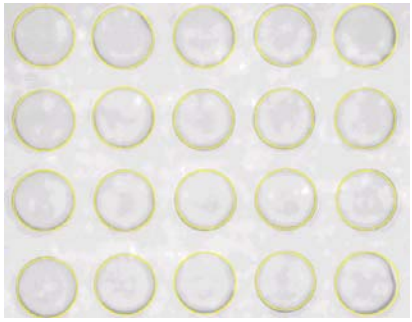
Image Analysis

Routines for Alignment, Inspection, and Drop Analysis

Product Description

Custom image analysis routines are enabled in the JetServer™ and Jetlab® control programs by adding a runtime version of the Aphelion image analysis software to a subsystem using a Jetdrive III and video capture or to a Jetlab® Printing Platform. These routines allow for:

- improved and additional calibration / alignment options;
- measurement of droplet size, velocity and trajectory polar angle from vertical direction; and
- surveying of printed spot patterns (Jetlab® Printing Platforms).



Standard Features

- Generation and display of scales over both vertical and horizontal camera images, enabling rapid, accurate manual measurements.
- Multiple selection algorithms and tuning tools for automatic edge detection.
- Automated measurement of drop parameters: diameter, velocity, trajectory angle (one plane).
- Automated measurement and location of fiducials and printed features. Used for alignment of drops to substrate features and rotation correction.

Available Options

- Aphelion developer version for standalone work on image processing/analysis.

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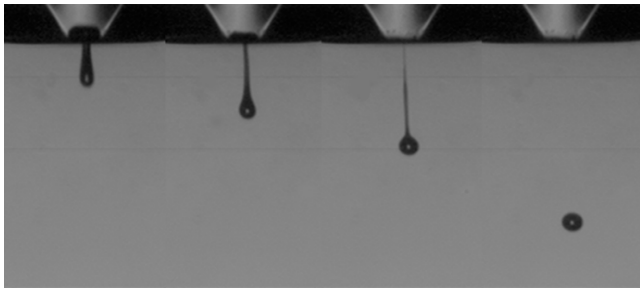
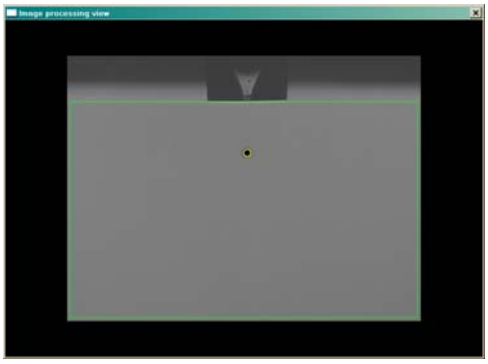
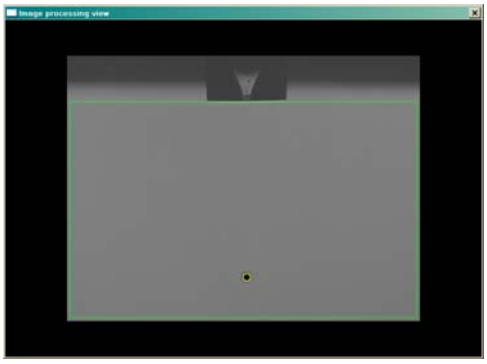
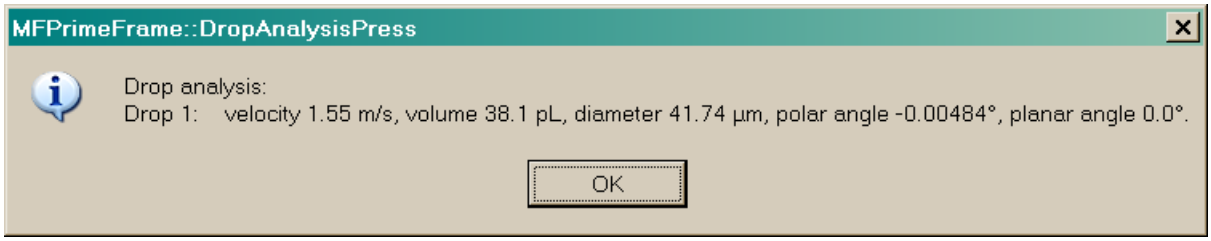
Ordering Information

CT-VC-02	Sensoray video capture board, USB.
CT-VC-01	Sensoray video capture board, PCI.
CT-VC-core	Image analysis software and custom image analysis routines.









Specifications*

Jetlab® II (observation and substrate)	2.1 µm / pixel – max zoom 21 µm / pixel – min zoom
Jetlab® 4 (substrate)	4 µm / pixel
Jetlab® 4 (observation – angled)	6.5 µm / pixel
Jetlab® 4xl-A (observation – horizontal)	6.5 µm / pixel
* note: for standard Jetlab® II and Jetlab® 4 optics and camera	

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