



Fully integrated drop-in-flight analysis system





Radius(IIIII)	volume(pL)	velocity(III/S)	Trajectory(Degree)
0.02920	104.321	11.634	89.608
0.00005	0.499	0.033	0.018
0.02920	104.299	11.636	89.608
0.02909	103.100	11.533	89.554
0.02934	105.795	11.711	89.652
158.000	158.000	158.000	158.000
	Radids(IIIII) 0.02920 0.00005 0.02920 0.02909 0.02934 158.000	Radio(IIIII) Volume(pL) 0.02920 104.321 0.00005 0.499 0.02920 104.299 0.02909 103.100 0.02934 105.795 158.000 158.000	Radio(min) Volume(pL) Velocity(mys) 0.02920 104.321 11.634 0.00005 0.499 0.033 0.02920 104.299 11.636 0.02909 103.100 11.533 0.02934 105.795 11.711 158.000 158.000 158.000

Characterize performance and drive optimization of ink, printing systems, and deposition systems

- Drop watch inside of your printer due to the unique angled optic design
- Visualize drop formation, consistency, and stability
- Measure drop volume, velocity, and trajectory as well as satellites and ligament volumes
- Produce accurate statistics and capture transient effects with single event imaging of individual drops
- Automate common tests like frequency sweeping, waveform optimization, open time studies, and more
- Work with any printhead or driver in the market

www.imagexpert.com

image**X**pert

Accurate Measurements of Critical Data

- High resolution imaging of drops, satellites, and mist
- Single strobe event capability for individual drop imaging
- 100ns minimum strobe pulse width eliminates blur

Single event image of single droplet (left) vs. a 5drop aggregate droplet image (right)

Drop Watch Inside Your Printer

The JetXpert[™] In-Line is equipped with angled optics, allowing you to slide the system underneath large printhead arrays to visualize and analyze drops.

Statistical Data Collection

- Measure and record real time jetting performance
- Data archived in tab-delimited text or Microsoft Excel files
- Collect measurements over time to measure system stability

Works With Any Printhead

Fujifilm Dimatix, Xaar, Konica Minolta, Ricoh, Kyocera, Toshiba Tec, HP, Trident...

JetXpert[™] In-Line uses the firing signal of the printhead to synchronize the strobe and trigger image capture

Easy to Use

- Intuitive user interface for drop analysis and data collection
- Easy calibration procedure
- Efficient printhead alignment and mounting mechanisms



Works With Any Driver

Use JetXpert[™] In-Line with any drive electronics. Work with Global Inkjet Systems, Meteor, AEWA, OEM, or your own

Performance Characterization

- Measure drop velocity, volume, and trajectory
- Measure ligament length and volume
- Visualize drop formation
- Measure variation in jetting performance

Asses Jetting Performance Inside of your printer





www.imagexpert.com



ImageXpert software

System Configuration

Light Source	High-powered LED strobe, proprietary lens for maximum image brightness
Camera	Digital camera, 2592 x 1944 pixels, with onboard strobe control
Lens	2x Zoom Fixed magnification lens
Calibration	Factory calibrated with calibration target included to recalibrate in the field
Strobe Pulse Width	100ns to 1000ns (1µm) in increments of 50ns
Analysis	Built-in analysis for drop volume, velocity, trajectory, satellites, and statistics thereof
Sync Signal	Nominal TTL (0-5VDC) input signal via dispenser controller or external signal generator. Accepts input (low) between 0-1V, and input (high) between 2.5-5V
Frequency Range	Minimum: <1Hz Maximum: 100kHz, 50% duty cycle
Data	Includes PC based GUI with graphical feedback and automatic data reporting file
Frame Rate	Up to 10 frames per second
Dimensions	15.5" L x 2.5" W x 3" H (39.4cm L x 26.3cm W x 7.6cm H)
Operating System	Windows

Contact Us!

Email: info@imagexpert.com Phone:+1 603 598 2500

www.imagexpert.com