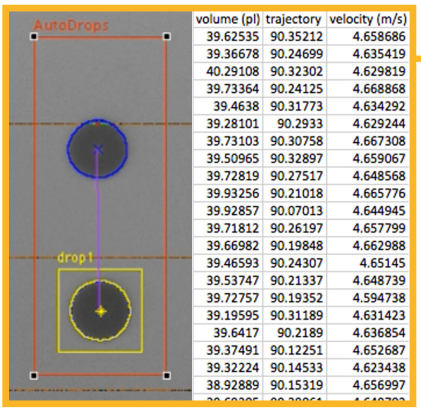
JetXpert Inkjet Development System

JetXpert with fully-integrated print station



volume (pl)	trajectory	velocity (m/s)
39.62535	90.35212	4.658686
39.36678	90.24699	4.635419
40.29108	90.32302	4.629819
39.73364	90.24125	4.668868
39.4638	90.31773	4.634292
39.28101	90.2933	4.629244
39.73103	90.30758	4.667308
39.50965	90.32897	4.659067
39.72819	90.27517	4.648568
39.93256	90.21018	4.665776
39.92857	90.07013	4.644945
39.71812	90.26197	4.657799
39.66982	90.19848	4.662988
39.46593	90.24307	4.65145
39.53747	90.21337	4.648739
39.72757	90.19352	4.594738
39.19595	90.31189	4.631423
39.6417	90.2189	4.636854
39.37491	90.12251	4.652687
39.32224	90.14533	4.623438
38.92889	90.15319	4.656997

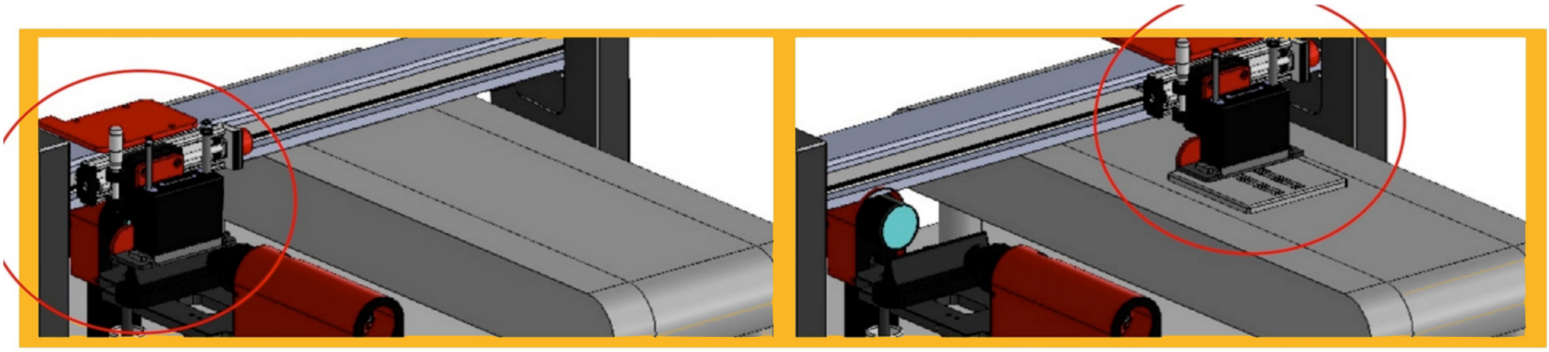
Includes:

- JetXpert
- Linear stage for printing
- Gantry for ease of use
- Print controller (optional)
- Printhead (optional)
- Ink Supply (optional)
- Vaccuum Chuck (optional)
- Print Quality Analysis (optional)
- and more

FEATURES AND BENEFITS

- The JeXpert Inkjet Development System is a complete platform for inkjet R&D. It provides a full suite of flexible, integrated analysis tools to ink developers, OEMs, and manufactureres.
- JetXpert provides world class visualization and analysis of drops-in-flight for rapid optimization of drop formation.
- Multiple locking head positions with quick release allow easy movement between stations.
- Print samples quickly and easily with fully integrated linear stage or belt with encoder
- Accomadates any printhead on the market

Print station capability is also available as an upgrade to existing JetXpert systems



Print head in JetXpert position

Print head in print position

Complete solution including drop watching, drop analysis, print testing, print quality analysis, and drop mass measurement in one economical test fixture

System Components	
JetXpert	- Visualization of drop formation and analysis of drops in flight, including measurements of volume, velocity, and trajectory, empowering the user to optimize ink formulations and jetting parameters - Single drop imaging with minimum 125ns strobe pulse width - Automatically save data, statistics, images, and movies - Optional Wetting camera for direct imaging of nozzles, allowing the user to identify many causes of poor jetting performance or jet-out, including wetting, damaged nozzles, debris in nozzle, etc - Optional frequency sweep capability, allowing automated measurement of jetting performance over a range of user-defined jetting frequencies - Optional first drop capability, and latency testing
Print Station	- Belt or linear stage with integrated encoder for synchronization with printhead and controller - Optical sensor to detect start of print - Customizable speed (Belt: 0.5-2 m/s, Linear Stage 0-2 m/s)
Printhead Mount	- Custom mounts available for every printhead on the market, including Xaar, Kyocera, Konica Minolta, Dimatix, Trident, Ricoh, Xerox M Class, HP, and SII Printek
Downward Facing Camera (Optional)	- Allows visualization and quantitative analysis of print quality, using fully integrated ImageXpert analysis software - Highly customizable analysis to match particular needs of development or QA team - Measurement capabilities include dot, line, edge, text quality, bleed, etc - Zoom lens included for further flexibility
Drop Weigh Station (Optional)	- Adds capability to measure average mass of dispensed drops
Ventilation Hood (Optional)	- Hood for JetXpert, with duct fitting for ventilation system
Ink Supply System (Optional)	- Supplies ink to a variety of printheads (does not work for recirculating heads) - Ink level sensor with automatic subtank refill - Adjustable meniscus pressure
Workstation	- Workstation preloaded with JetXpert software for drop analysis and full ImageXpert software for print quality analysis

imageXpert
www.jetxpert.com
Email: info@imagexpert.com
Tel: 603-598-2500
Fax: 603-598-2687