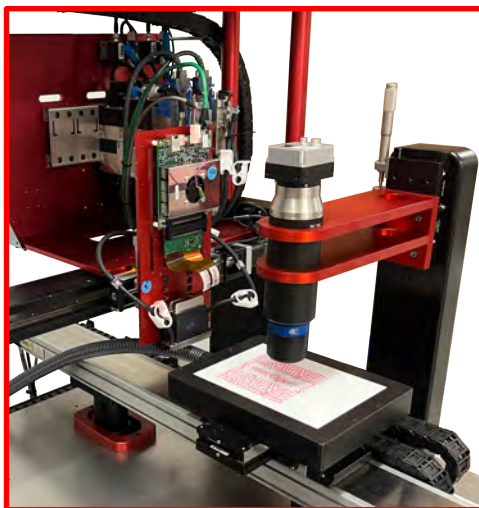# jetXpert™ Print Station

## imageXpert

**All-in-one dropwatching, printing, and print quality analysis**
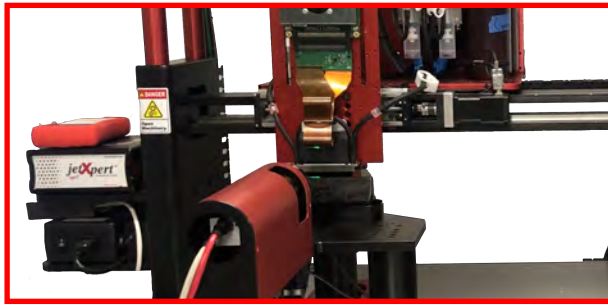


## Features and Benefits

- The JetXpert Print Station is a complete platform for inkjet R&D and pilot production

- Designed for experimenting, with drop-in-flight and print quality analysis systems

- Production-grade movement and print repeatability

- Customizable with any printhead, drive electronics, number of colors, and other options

- Modular design that can be upgraded over time as your project evolves

- The Print Station is also available as an upgrade to existing JetXpert Systems
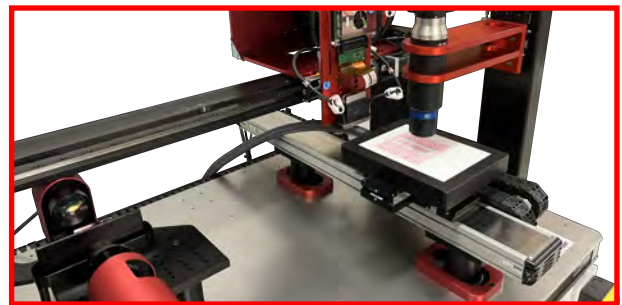


## Designed For:

- Printhead Evaluation

- Fluid Development

- Waveform Design

- Process Optimization

- Pilot Production

## imageXpert

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

## Drop Analysis Station



## Print Analysis Station



## System Components

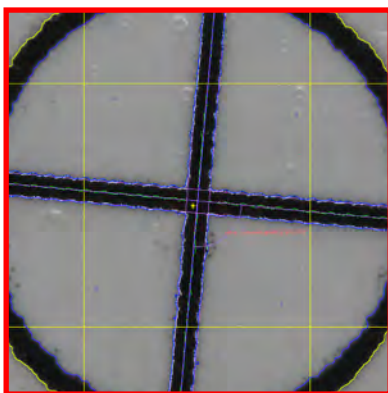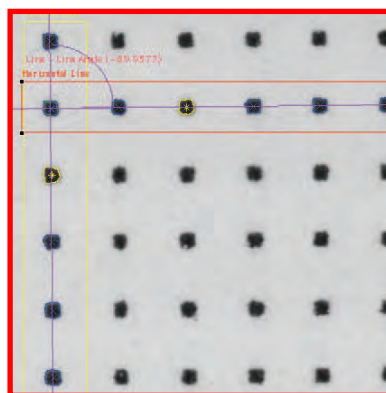| | |
|---|---|
| JetXpert | Drop visualization and analysis of drop volume, velocity, and trajectory<br>High quality optics for sharp images of drops, satellites, and misting<br>Upgradeable with aditional cameras and capabillities to automate common tests |
| Printing Stage | High speed, high resolution linear stage<br>Can be configured with X, Y,Z, and R axes<br>Vacuum, heated, or customer substrate holder |
| Printhead Mount | Custom mounts for every printhead on the market<br>Mounting for one or more printheads in any configuration |
| Drive Electronics | Compatible with drive electronics from all manufacturers<br>Can be configured and supported by ImageXpert or with your equipment |
| Ink Delivery System | Work with gravity-fed, recirculating, heating, degassing, or multiple fluids<br>Can be configured and supported by ImageXpert or with your own equipment |
| Print Quality Analysis | Allows visualization and quantitative analysis of print quality using fully integrated software<br>Highly customizable hardware and analysis for your application<br>Measurement capabilities inlcude dot, line, edge, text, bleed, etc. |
| Print Process | Camera-based substrate alignment<br>UV, LED, NIR, or other curing station<br>Plasma, corona, or another pretreatment |



Side Shooting Orientation

JetXpert Print Station

## Print Station Specs

| | |
|---|---|
| Print Repeatability | 1.5 µm |
| Max Substrate Size | 440 x 300 mm * |
| Max Substrate Thickness | 75 mm * |
| Substrate Hold | Vacuum Clamping |
| Substrate Temperature Control Max | 150 °C |
| Print Speed | Up to 2 m/s |
| Printheads | Universal Compatibility |
| Drive Electronics | Universal Compatibility |
| Number of Colors | 1 - 4 * |
| Machine Vision | Dropwatching, Substrate Alignment, Print Quality Analysis |
| Ink Types | Universal Compatibility |
| Ink Supply | Gravity, Recirculation, Heated, Degas |
| Footprint | 1.2 x 1.2 x 1.6 m |
| Weight | 450 kg |
| Ink Curing / Drying Systems | Universal Compatibility |
| Enclosure | UV Blocking, Mist Extraction, Safety Doors |

*Customizable

### Substrate Alignment

### Print Quality Analysis

### Drop Analysis