



**ImageXpert**

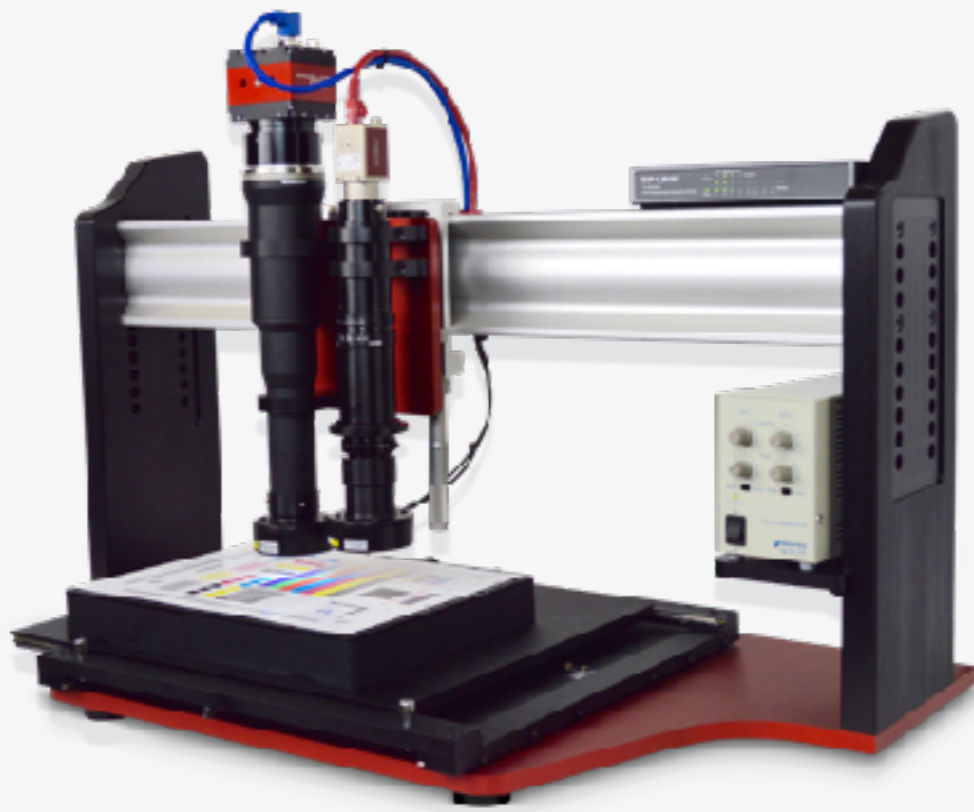
*Product Portfolio and Services*



# ImageXpert Inc

About Our Company

Turnkey solutions for inkjet development and image quality measurement





# ImageXpert Inc

About Our Company



DROPWATCHERS



INK SUPPLIES



PRINT INSPECTION



DRIVE ELECTRONICS



R&D PRINTERS



TRAINING & SUPPORT





# JetXpert

World-leading dropwatcher, used by over 400 inkjet developers



Drop Volume

Drop Velocity

Drop Trajectory

Satellites

Operating Frequency

Throw Distance



# Print Station

All-in-one inkjet development system



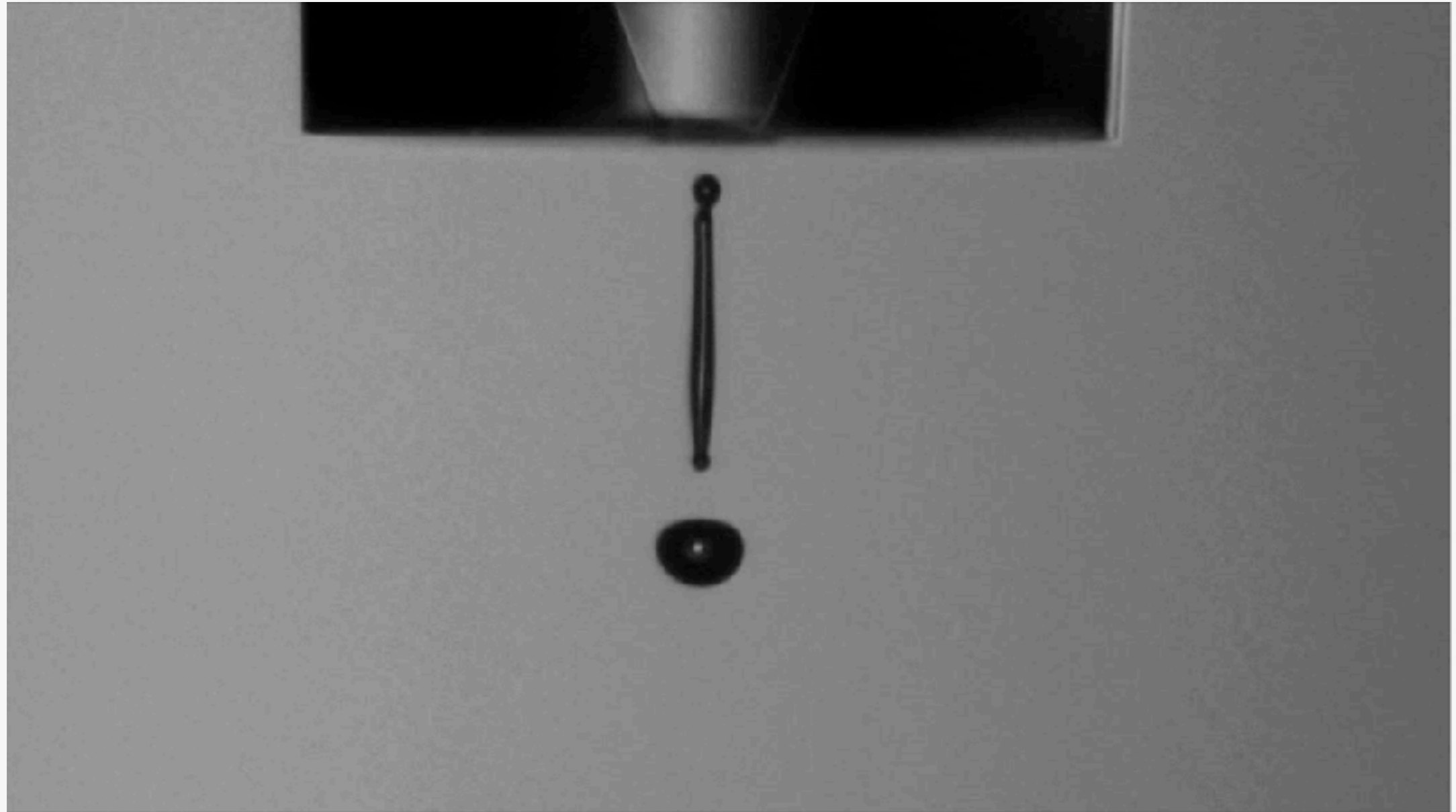
Dropwatching plus:

- Sample Printing up to 2 m/s
- Sustainability Testing
- Print Quality Measurements
- Optional Curing / Pinning / Drying



# JetXpert

Drop visualization





# JetXpert

Measuring drop volume, velocity, and trajectory

The screenshot displays the JetXpert software interface. On the left, a measurement report window titled "ImageXpert: Measurement Report" shows the following data:

| Status | Measurement Name      | Value  | Nominal | Min. Tolerance | Max. Tolerance |
|--------|-----------------------|--------|---------|----------------|----------------|
| F      | dropl: Average Radius | 0.021  | 0.000   | 0.000          | 0.000          |
| F      | dropl volume (pl)     | 39.468 | 0.000   | 0.000          | 0.000          |
| F      | trajectory            | 90.288 | 0.000   | 0.000          | 0.000          |
| F      | velocity (m/s)        | 4.672  | 0.000   | 0.000          | 0.000          |

| Fail | Measurement Name      | Mean   | Std. Deviation | Minimum | Maximum |
|------|-----------------------|--------|----------------|---------|---------|
| 1    | dropl: Average Radius | 0.021  | 0.000          | 0.021   | 0.021   |
| 1    | dropl volume (pl)     | 39.468 | 0.000          | 39.468  | 39.468  |
| 1    | trajectory            | 90.288 | 0.000          | 90.288  | 90.288  |
| 1    | velocity (m/s)        | 4.672  | 0.000          | 4.672   | 4.672   |

The main control panel on the right includes a "Stop Strobe" button, radio buttons for "Single" and "Double" (with "Double" selected), and a "Check" button with a green indicator. A timing diagram shows two red pulses with "Delay1" (554.79  $\mu$ s) and "Delay2" (20.05  $\mu$ s) between them. Other parameters include "Pulse Width" (625 ns), "Shutter Speed" (1 ms), and "Intensity" (65). The "Mode" section has "Free run" and "Triggered" (selected) options. The "Variable Delay" section includes "On", "Incremental" (selected), and "Cyclic" options, with "Start" (400.04  $\mu$ s), "End" (770.04  $\mu$ s), and "Step Size" (10.5  $\mu$ s) values. The "Analysis" section shows "Method" set to "Default Drops", "Data File Name" as "drops.xls", and "Exp ID" as "expID". Buttons for "Analyze Now", "Stop Analysis", and "Zero Statistics" are present. The "Filename Prefix for movie" is set to "movie", with "Start Recording" and "Save Image" buttons. A "Close" button is at the bottom right.



# Inline JetXpert

Angled dropwatcher for large printhead arrays



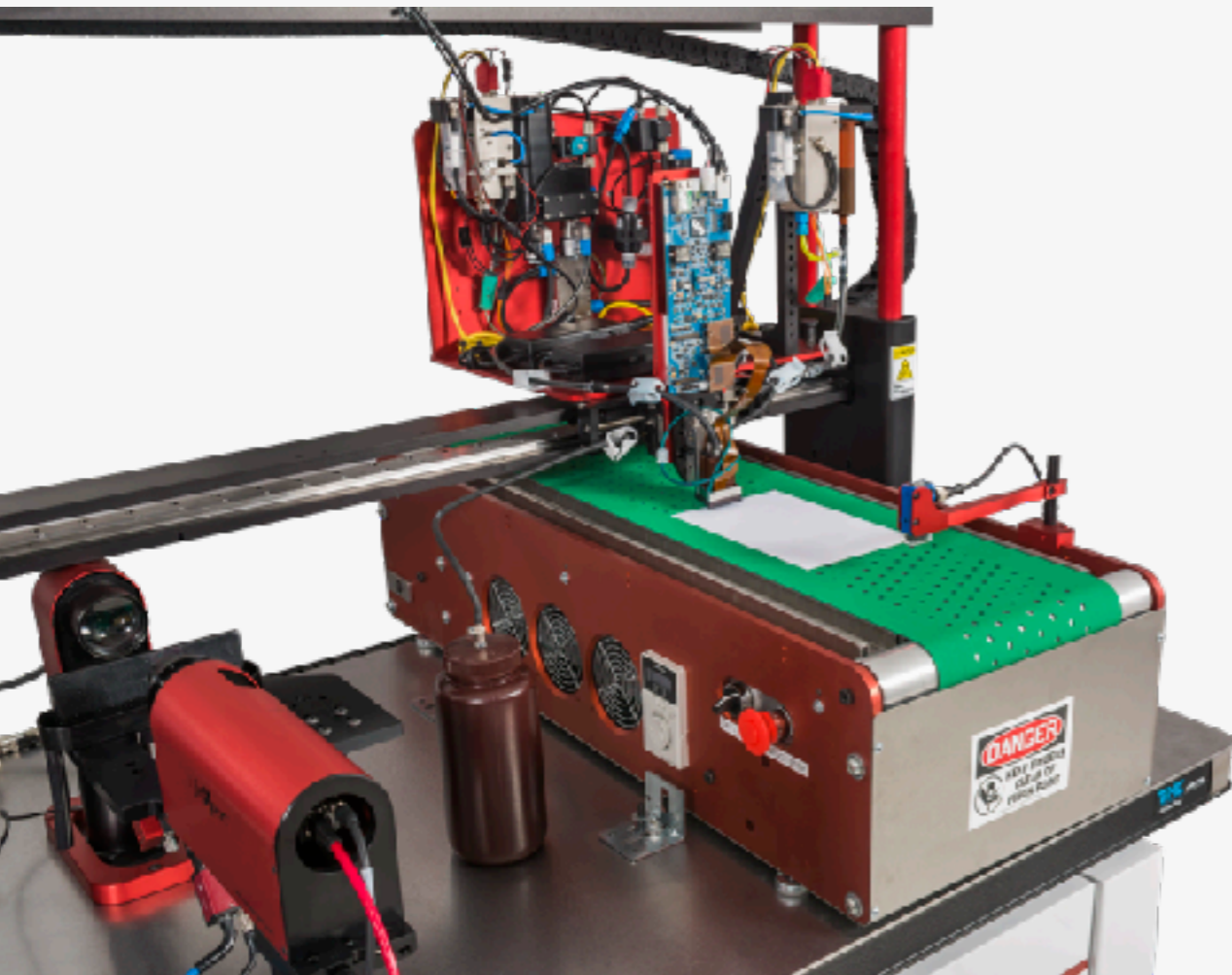




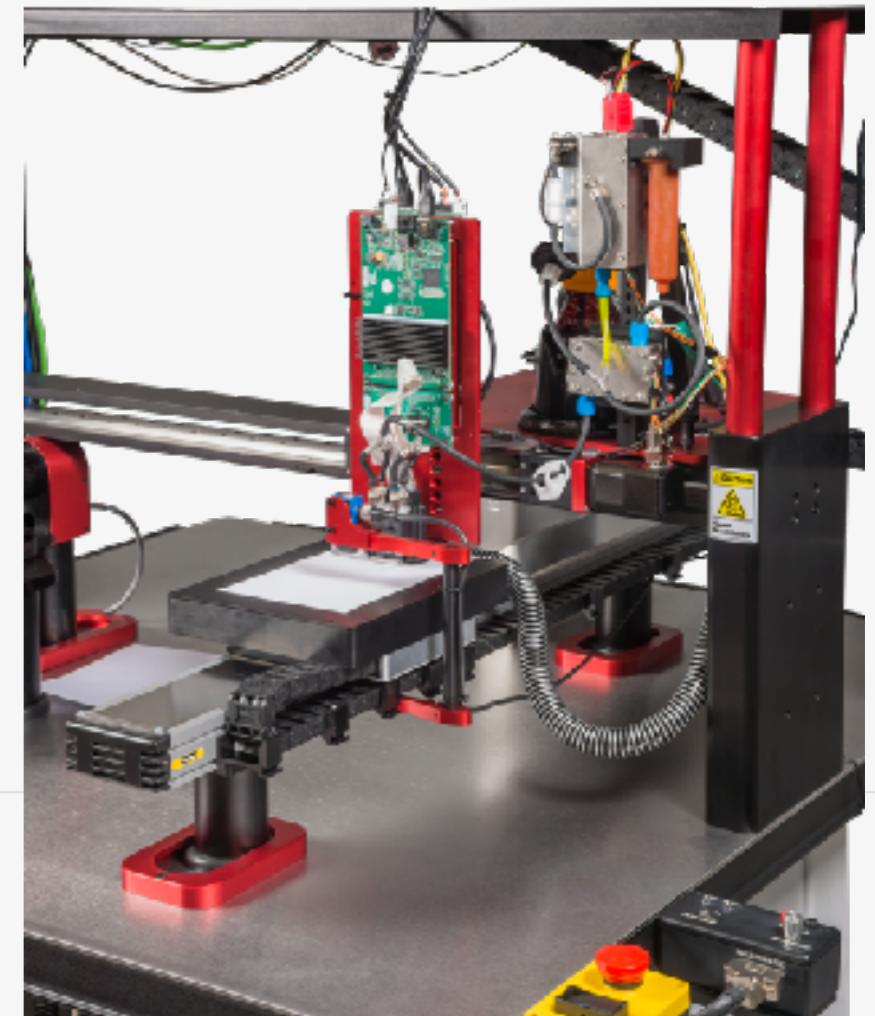
# Modular Equipment

Dropwatching does not require a lot of money, space, or manpower and the equipment is modular. You can easily evaluate different inks, printheads, ink supplies, and more all on one system

Dimatix Samba printhead printing roll to roll



Xaar 1201 printhead printing multipass





# Specifications

Compatibility and Integrations



Works With:

- All printheads and dispensers on the market (Dimatix, Ricoh, Kyocera, Konica Minolta, Seiko, Xaar, etc)
- All drive electronics on the market or your own (GIS, Meteor, DTS, AEWA, etc.)
- Any ink supply or ink delivery system

**ImageXpert can supply and support everything you need for the entire system, or you can build your own!**



# Print station

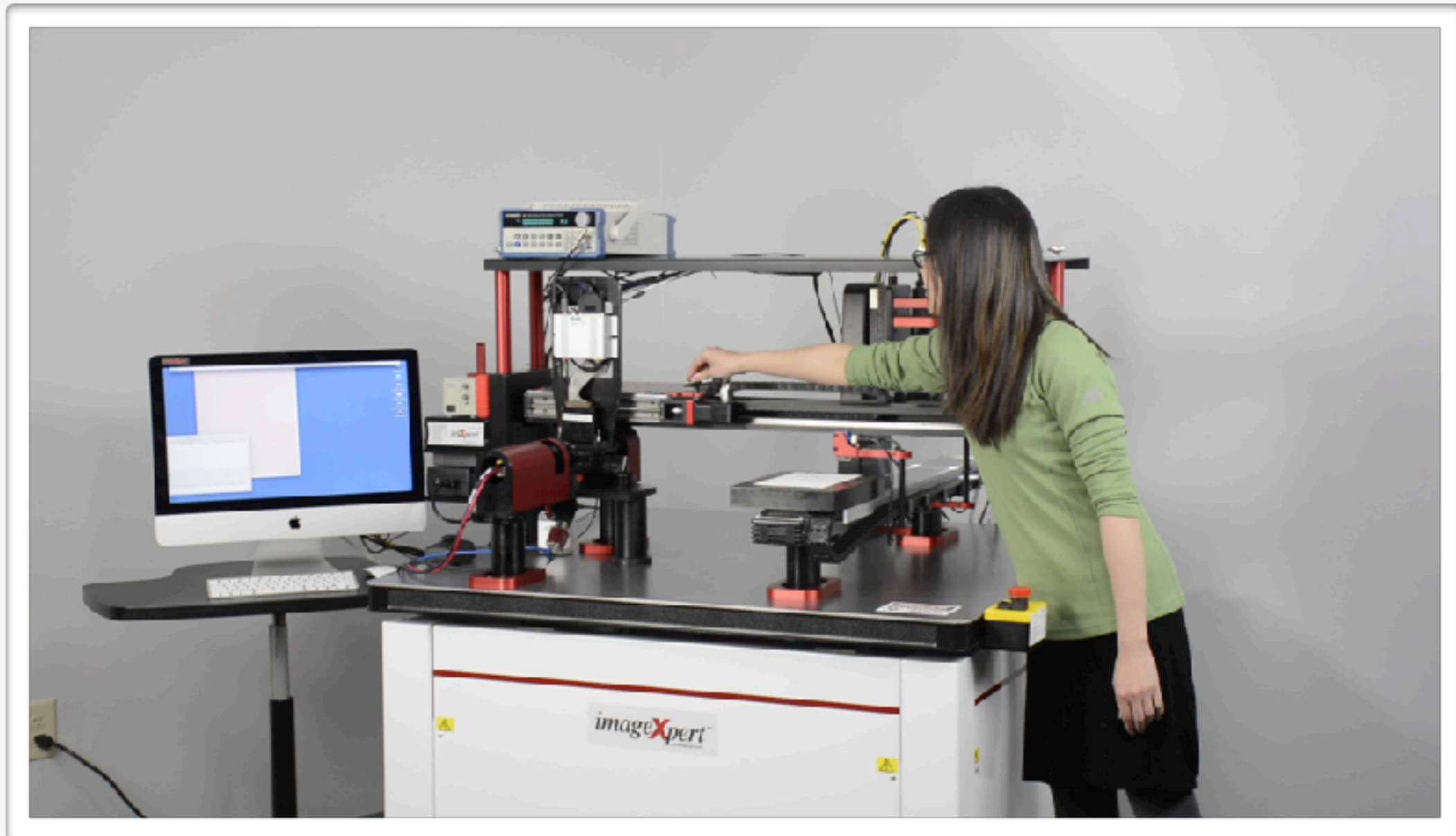
View and analyze drops using JetXpert





# Print station

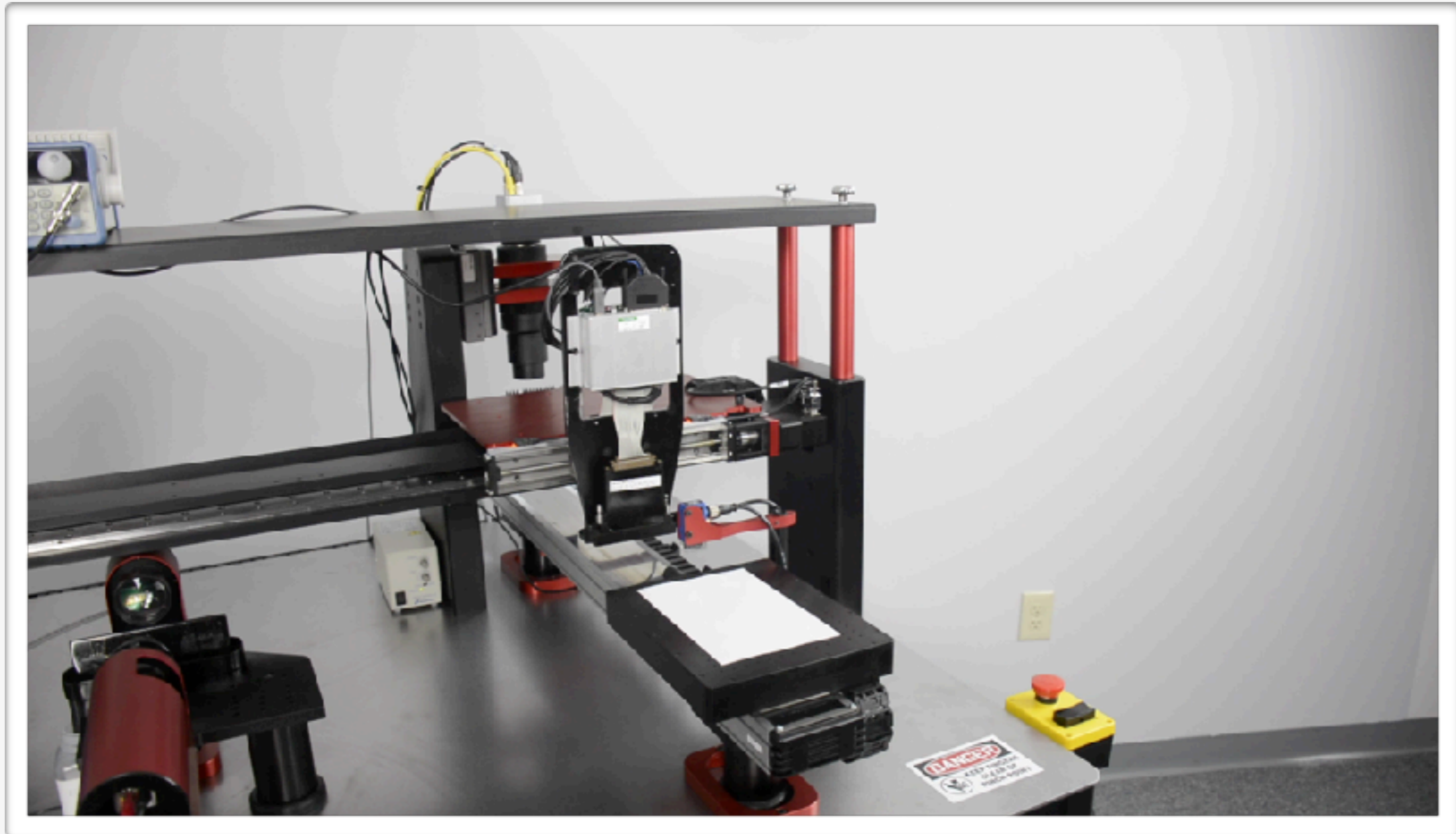
Easily move the same print head and ink between tests





# Print station

Print samples and inspect image quality





# Free Courses and Resources

Visit [jetxpert.com/blog](https://jetxpert.com/blog) for articles, videos, and other content to learn how to:

- Optimize Waveforms
- Choose a Printhead
- Fix Satellites, Latency, Wetting, and Other Jetting Failures
- Select Pretreatments and Coatings



**Thank you!**

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