



# Your Partner in IR and UV Technology

## Speedy Ink Testing System





# Speedy Ink Testing System

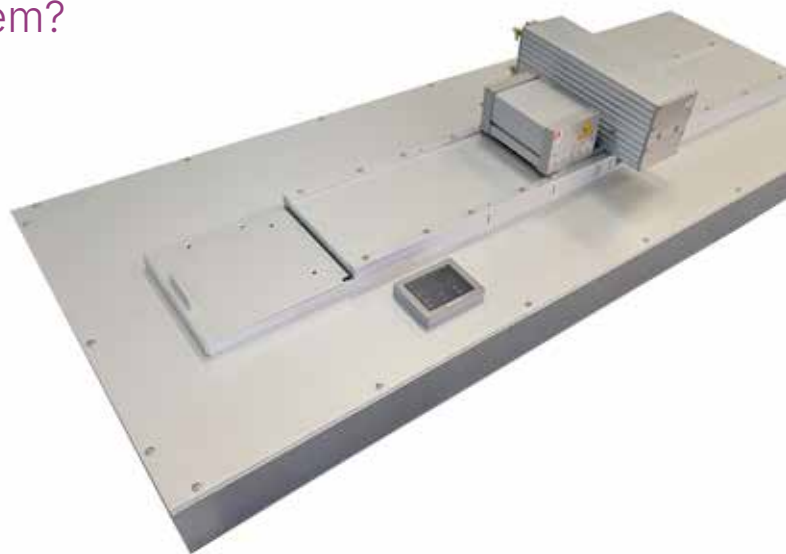
Victory's Speedy Ink Testing System provides an efficient platform for manufacturers to test inks, coatings, and paints in-house before full-scale production. Designed with flexibility and speed in mind, this unit allows users to validate UV LED or Cold UV curing performance on a variety of substrates.

Ideal for R&D departments or quality control in printing and packaging industries, the Speedy Ink Tester is compatible with Victory's UV LED and Cold UV Curing Systems.

## What is the Speedy Ink Testing System?

UV LED curing technology offers many advantages over traditional mercury UV curing. It delivers lower operating costs, instant on/off functionality with no standby time, and eliminates ozone exhaust risks.

The main challenge for LED curing lies in wavelength. Unlike mercury systems, which produce a broad "curing area" from UVB to UVA, LED curing delivers energy at a single wavelength, such as 365 nm or 395 nm. This makes it essential for customers to test their LED inks before investing in a curing system for their printing or coating machines.



## How Does the Speedy Ink Testing System Work?

The Speedy system is designed for precise, real-world ink testing. Using a linear motion track with a servo-driven sliding block, the ink sample—or a radiation meter—moves smoothly at speeds from 4 to 300 m/min.

Operators simply set the testing speed and UV energy on the touchscreen. The sliding block automatically runs at the programmed speed through the curing area, while the lamp adjusts to the exact energy required. Once cured, the sample automatically returns to the start position.

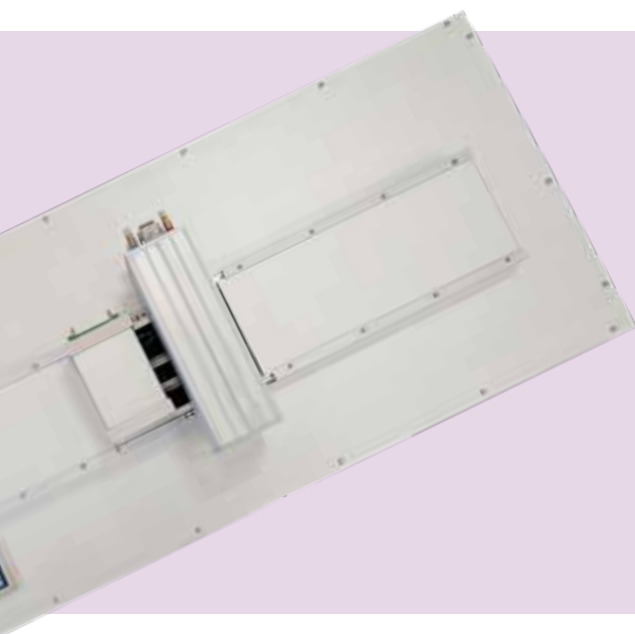
This process provides a real-time picture of curing performance—replicating the results achieved on full production printing machines.





## Why Choose the Speedy Ink Testing System?

- High testing speeds up to 300 m/min
- Quick switch between multiple light sources (UV lamp or LED lamp)
- Easy wavelength selection: 365–410 nm

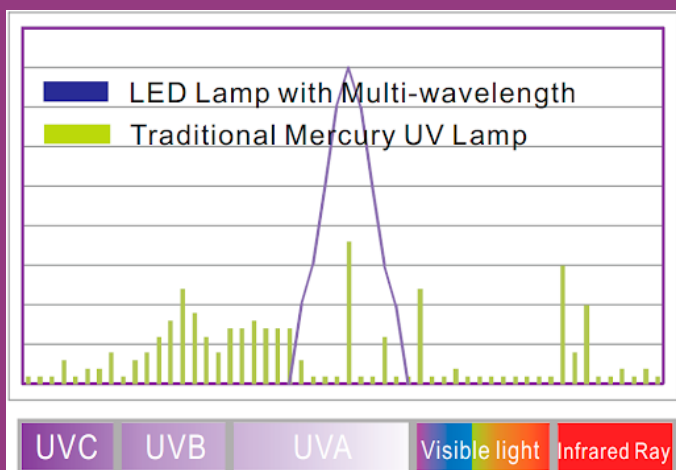


## Specifications

<b>Curing Area</b>	82 × 60 mm (custom sizes available)
<b>Peak Wavelength</b>	365, 385, 395, and 410 nm (combined or individual)
<b>Peak Energy Output</b>	up to 26 W/cm <sup>2</sup>
<b>Optional traditional UV curing</b>	100mm
<b>Speed control</b>	fully automatic, 4–300 m/min
<b>Power control</b>	0–100% with instant on/off
<b>Cooling System</b>	closed-loop water chilling with automatic flow control
<b>Certifications</b>	CE, UL, and more
<b>Optional</b>	LED or UV radiation test system (EIT LED-R)

## What is High-Speed UV LED Ink?

High-speed UV LED ink plays a critical role in achieving print quality and production efficiency. Well-formulated inks ensure consistent results, reliable uptime, and high productivity without manual adjustments.



## What is UV LED Ink?

UV LED inks are formulated differently from traditional UV inks. They are only activated by narrow wavelength ranges, typically 365–405 nm, compared to mercury lamps that operate across 200–700 nm.

This requires specially designed photoinitiators and pigments that absorb at higher wavelengths. These advanced materials are often more expensive, but they ensure compatibility with the spectral output of LED curing lamps.





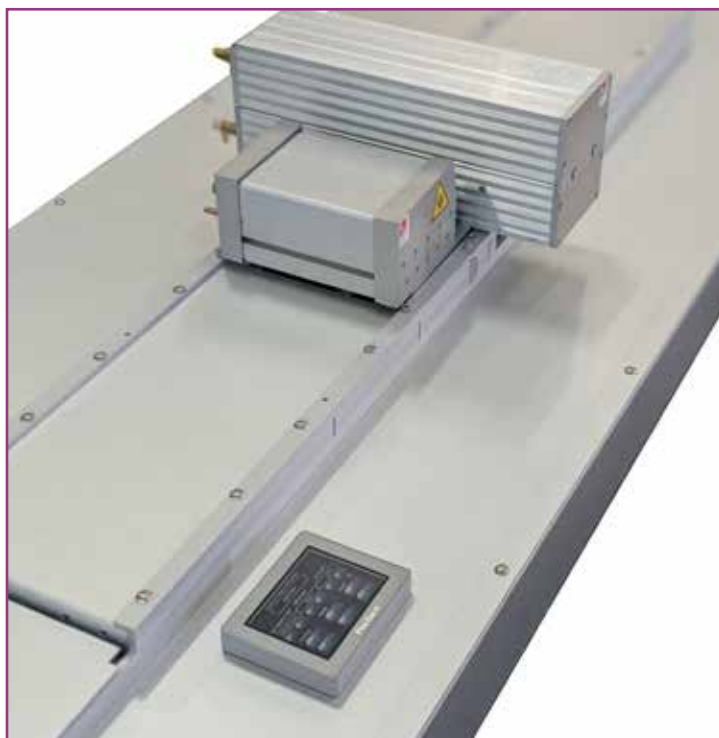
# Technical Data

## SPEEDY INK TESTING SYSTEM

### How Does High-Speed UV LED Ink Work?

Unlike mercury lamps, UV LED lamps emit light at very specific wavelengths. This does not mean UV LED inks require less energy for curing—in fact, good energy dosing is key to achieving optimal curing speed and quality.

With the Speedy Ink Testing System, inks can be cured faster and more effectively, delivering excellent results even at high production speeds.



### Key Features of Speedy Ink Testing Systems:

- Compact and easy to operate
- Compatible with Cold UV and UV LED curing systems
- Fast testing cycle times
- Environmentally friendly alternative to solvent-based curing
- Ideal for ink formulation and UV compatibility testing

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And learn more about our Ultraviolet technology solutions

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