



DUAL-HOPPER UV LASER SLIDE PRINTER

Dual-Hopper UV Laser Slide Printer – ToronPath™ SP-DUV

ToronPath™ SP-DUV is a dual-hopper slide laser printer designed for laboratories with demanding, high-throughput slide printing needs. By incorporating two independent loading hoppers, the ToronPath™ SP-DUV slide printer doubles the available loading capacity compared to single-hopper models, enabling extended unattended operation and significantly reducing workflow interruptions.

Like all models in the ToronPath SP-L family, this instrument uses UV laser printing technology to deliver permanent, chemically resistant markings at 2500 dpi — with no consumables required. The fully integrated design operates without an external computer, and the printed lacquer side of each slide faces outward at output for contamination-free retrieval.

APPLICATIONS

Dual-Hopper UV Laser Slide Printer – ToronPath™ SP-DUV Applications

The ToronPath™ SP-DUV is designed for use in:

- High-volume histopathology and anatomical pathology laboratories
- Core laboratory and reference lab environments with continuous slide throughput
- Hospital pathology departments requiring extended unattended operation
- Cytology and surgical pathology units with dual-type slide workflows
- Labs integrating dual-source slide inputs for multiple specimen types



FEATURES

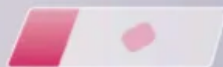
Dual-Hopper UV Laser Slide Printer - ToronPath™ SP-DUV Key Features

- Dual-hopper design: two independent loading slots (≥ 100 slides each) for a combined capacity of ≥ 200 slides, enabling high-volume, uninterrupted printing
- UV laser printing technology: non-contact, consumable-free process; no ribbons, ink, or maintenance supplies needed
- 2500 dpi print resolution: produces ultra-sharp characters, barcodes, QR codes, and alphanumeric identifiers
- Contamination-free output: the lacquer side of each printed slide faces outward upon exit, ensuring safe, clean retrieval
- Chemical resistance: printed markings withstand xylene, alcohol, and decalcifying fluid for long-term specimen integrity
- Broad slide compatibility: supports a wide variety of paint-size slides and multiple slide colors
- 10.1-inch full-color LCD touchscreen for clear, operator-friendly navigation
- Built-in barcode scanner with optional external barcode scanner for flexible system integration
- Output collection capacity ≥ 20 pcs for immediate downstream use
- High print speed: ≤ 3 seconds per slide for maximum efficiency in high-volume environments
- Integrated stand-alone system: built-in OS; no external computer required
- LIS/HIS/PIS/PACS compatible: integrates with major hospital and laboratory information systems
- Composite air treatment function for a cleaner, safer printing environment

Powerful Functionality

■ Specimen Slide Printing Function

Pre-sealed specimen slides can be printed directly



■ Reprint Function

If printing is unclear, slide can be printed again with reprint



■ Double Patients Number Printing Function

It supports two patients numbers in one slide, which meet the needs of information-based end-to-end management



Mini Thermal Printer

High-quality Printing

- Clear, high-contrast prints with 1s scan & recognition
- Supports standard & immunohistochemistry slides
- Capable of printing on various sizes of slides
- Fully compatible in printing on colored slides/tissue cassette, fully compatible



Environmentally Friendly

- Eco-friendly printing, dust & chemical odor-free
- Low noise for a comfortable working environment
- Advanced tech & materials for energy saving & emission reduction



Information Technology

■ Data Transmission

- Wi-Fi, USB, Bluetooth, Ethernet, Serial Interface, etc.

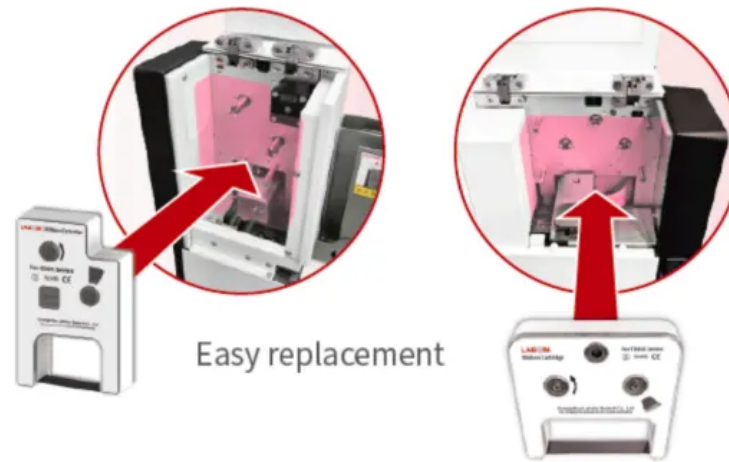
■ Diverse Information Transmission Capabilities

- Supports transmission protocols such as LIS/HIS/PIS/PACS
- Supports custom proprietary protocols



3-Second Ribbon Replacement

- Modular ribbon cartridge design
- 3-second rapid ribbon replacement



Smart & Small

- Width $\leq 110\text{mm}$



THEORY & METHOD

Theory and Method

The ToronPath™ SP-DUV employs the same proven UV laser printing principle as the ToronPath™ SP-UV and ToronPath™ SP-150UV, using a tightly focused, non-contact laser beam to permanently engrave identification data (including text, symbols, barcodes, and high-resolution QR codes) directly onto glass microscope slides at 2500 dpi. What distinguishes the ToronPath™ SP-DUV is its dual-hopper architecture: two loading slots each accommodating ≥ 100 slides, providing a

combined capacity of ≥ 200 slides per load cycle.

This design supports extended or unattended batch printing sessions. All printed markings are resistant to xylene, alcohol, and decalcifying fluid. The slide output mechanism ensures the lacquer side faces outward, keeping slides contamination-free. The built-in operating system enables fully stand-alone operation.

TECHNICAL SPECIFICATIONS

Dual-Hopper UV Laser Slide Printer - ToronPath™ SP-DUV Technical Specifications

Printing Technology	UV Laser Printing
Printing Resolution	2500 dpi
Print Speed	≤ 3 seconds per slide
Loading Configuration	Dual Hopper - 2 independent slots
Loading Capacity	≥ 100 slides $\times$ 2 slots (≥ 200 slides total)
Output Collection Capacity	≥ 20 pcs
Data Transmission	USB, Ethernet, Serial Ports
Display	10.1-inch Full-Color LCD Touchscreen
Barcode Scanner	Built-in; optional external barcode scanner
Operating System	Built-in (stand-alone, no external computer required)
System Compatibility	LIS / HIS / PIS / PACS
Chemical Resistance	Xylene, Alcohol, Decalcifying Fluid

Slide Output Orientation	Lacquer side faces outward (contamination-free retrieval)
Consumables	None (non-contact laser technology)
Air Treatment	Composite Air Treatment Function
Dimensions (W × D × H)	210 mm × 467 mm × 445 mm



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