



HIGH-CAPACITY UV LASER SLIDE PRINTER

High-Capacity UV Laser Slide Printer - ToronPath™ SP-150UV

ToronPath™ SP-150UV is an advanced slide laser printer designed for clinical and pathology laboratories requiring precise, high-volume slide identification. Building on the proven UV laser printing platform, the ToronPath™ SP-150UV slide printer introduces enhanced output flexibility, supporting both on-demand and large-capacity batch printing modes with FIFO (First In, First Out) slide management.

The printed side of each slide faces outward upon output, preventing contamination upon retrieval. The ToronPath™ SP-150UV is a fully self-contained slide printer requiring no external computer and integrates seamlessly with LIS, HIS, PIS, and PACS systems for end-to-end laboratory traceability.

APPLICATIONS

High-Capacity UV Laser Slide Printer - ToronPath™ SP-150UV Applications

The ToronPath™ SP-150UV Standard UV Laser Slide Printer is designed for use in:

- High-throughput histopathology and surgical pathology laboratories
- Clinical laboratories with on-demand and batch slide printing requirements
- Hospital pathology departments integrated with LIS/HIS/PACS
- Cytology and research labs requiring contamination-free slide handling
- Institutions implementing barcode-based specimen tracking workflows



FEATURES

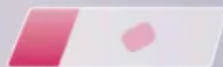
High-Capacity UV Laser Slide Printer - ToronPath™ SP-150UV Key Features

- UV laser printing technology: non-contact, zero consumables; permanent laser-engraved markings with no ongoing supply costs
- High-resolution output: 2500 dpi printing for crisp characters, barcodes, QR codes, and alphanumeric text
- Contamination-free output: the lacquer side of each printed slide faces outward upon exit, protecting slide integrity during handling
- Flexible output modes: on-demand printing (≥ 10 pcs) and high-capacity FIFO batch printing (≥ 150 pcs)
- Chemical resistance: markings withstand xylene, alcohol, and decalcifying fluid for long-term specimen preservation
- Broad slide compatibility: prints on a wide variety of paint-size slides including multiple slide colors
- 10.1-inch full-color LCD touchscreen for intuitive, operator-friendly control
- Built-in barcode scanner plus optional external barcode scanner for versatile workflow integration
- High loading capacity: ≥ 100 slides per load for uninterrupted operation
- Integrated stand-alone design: built-in OS; operates without an external computer
- LIS/HIS/PIS/PACS compatible: integrates with major hospital and laboratory information systems
- Professional slide loading/output device compatibility for full automation
- Composite air treatment function for a cleaner 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.

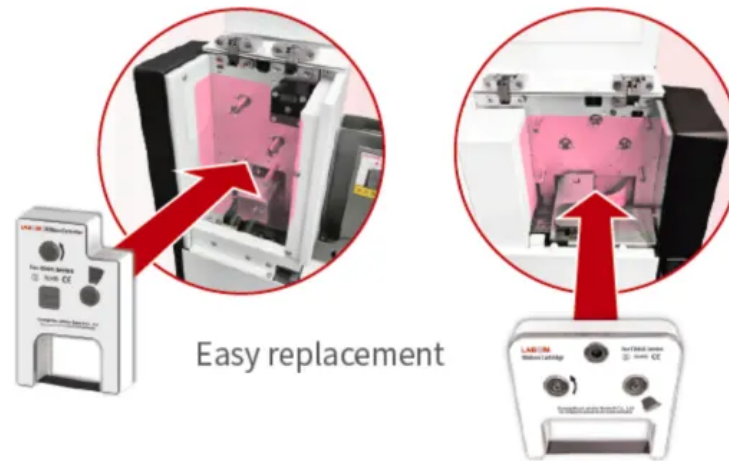
■ Diverse Information Transmission Capabilities

- 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 $\leq 110\text{mm}$

— Intelligent —



①

Printer Owns Built-in Scanning Module

Scanning module
controlky software



②

Innovative LED Strip Design

- Green** Normal operating status
- Yellow** Consumable is low supply (glass slide, carbon ribbon, etc.)
- Red** Warning

THEORY & METHOD

Theory and Method

The ToronPath™ SP-150UV employs UV laser printing technology to permanently mark microscope slides through a non-contact, consumable-free process. A highly focused laser beam engraves text, characters, symbols, barcodes, and high-resolution QR codes directly onto slide surfaces at 2500 dpi. This laser-engraving process requires no ink, ribbons, or chemical agents, resulting in markings that resist xylene, alcohol, and decalcifying fluid — essential properties for

histopathology workflows.

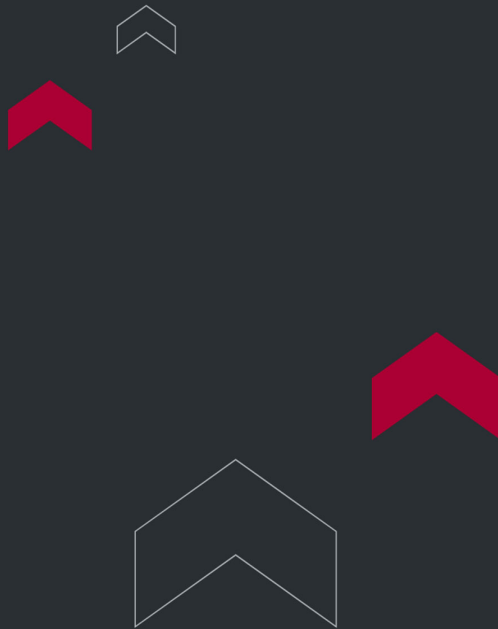
The built-in operating system enables fully autonomous operation. Slides are managed via FIFO logic in batch mode, and the lacquer side of each printed slide faces outward at output, eliminating contamination risk during collection.

TECHNICAL SPECIFICATIONS

High-Capacity UV Laser Slide Printer - ToronPath™ SP-150UV Technical Specifications

Printing Technology	UV Laser Printing
Printing Resolution	2500 dpi
Print Speed	≤ 3 seconds per slide
Loading Capacity	≥ 100 slides
Output Capacity - On Demand	≥ 10 pcs
Output Capacity - Batch Printing (FIFO)	≥ 150 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)	200 mm × 437 mm × 445 mm



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