



TORONTECH

STANDARD UV LASER SLIDE PRINTER



Standard UV Laser Slide Printer - ToronPath™ SP-UV

ToronPath™ SP-UV is a high-performance slide laser printer engineered for professional histopathology and clinical laboratory environments. Utilizing advanced UV laser printing technology, this slide printer delivers precise, permanent markings directly onto standard microscope slides without the need for consumables such as ribbons or ink cartridges.

The ToronPath™ SP-UV combines a compact, self-contained design with an integrated touchscreen interface, enabling fully stand-alone operation without an external computer. Designed for high-throughput workflows, the ToronPath™ SP-UV slide printer is an ideal solution for laboratories seeking reliability, clarity, and long-term specimen traceability.

APPLICATIONS

Standard UV Laser Slide Printer - ToronPath™ SP-UV Applications

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

- Histopathology and anatomical pathology laboratories
- Clinical and hospital laboratories requiring slide identification
- Research institutions performing long-term specimen archiving
- Cytology departments needing barcode-based slide tracking
- Facilities integrated with LIS, HIS, PIS, or PACS systems



FEATURES

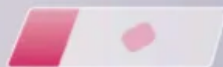
Standard UV Laser Slide Printer – ToronPath™ SP-UV Key Features

- UV laser printing technology – non-contact, no consumables required; laser-engraved markings are permanent and maintenance-free
- Exceptional print clarity – ultra-fine laser spot with 2500 dpi resolution for crisp characters, barcodes, QR codes, and symbols
- Chemical resistance – printed markings withstand exposure to xylene, alcohol, and decalcifying fluid, ensuring long-term specimen preservation
- Broad slide compatibility – prints on a wide variety of paint-size slides, compatible with multiple colored slide types
- Integrated design – fully stand-alone operation with built-in OS; no external computer required
- 10.1-inch full-color LCD touchscreen – intuitive on-screen controls for easy daily operation
- Built-in barcode scanner with optional external barcode scanner support for flexible workflow integration
- High loading capacity – accommodates ≥ 100 slides for uninterrupted batch printing
- Large output storage – Big storage box capacity: $\geq 35 / 50 / 80$ pcs (batch printing mode)
- High print speed – ≤ 3 seconds per slide for efficient, high-volume throughput
- LIS/HIS/PIS/PACS compatible – seamlessly integrates with major hospital information systems
- Composite air treatment function for a cleaner printing environment
- Compact footprint – ideal for space-constrained laboratory benchtops

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.

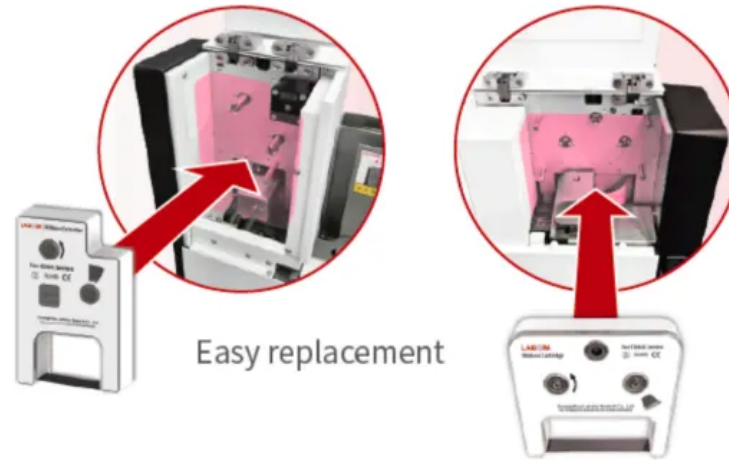
■ Diverse Information Transmission Capabilities

- 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-UV (G364) operates on UV laser printing technology, a non-contact, consumable-free method that uses a precisely focused laser beam to permanently engrave text, symbols, barcodes, and QR codes directly onto the surface of standard glass microscope slides.

The laser spot size is extremely small, enabling ultra-high-resolution output at 2500 dpi. Because the marking process is chemical-free and non-contact, the printed information is inherently resistant to xylene, alcohol, decalcifying fluid, and other harsh laboratory reagents, making it suitable for long-term preservation. The built-in operating system manages print jobs autonomously, and slide loading and output are handled by an automated mechanism compatible with professional slide loading/output devices.

TECHNICAL SPECIFICATIONS

Standard UV Laser Slide Printer - ToronPath™ SP-UV Technical Specifications

Printing Technology	UV Laser Printing
Printing Resolution	2500 dpi
Print Speed	≤ 3 seconds per slide
Loading Capacity	≥ 100 slides
Output Collection Capacity (Print & Use)	≥ 10 pcs
Output Collection Capacity (Batch Printing)	Big storage box: ≥ 35 / 50 / 80 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
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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