



TORONTECH

STANDARD TISSUE CASSETTE PRINTER



Standard Tissue Cassette Printer — ToronPath™ TC

ToronPath™ TC is a versatile, compact tissue cassette printer engineered to meet the cassette labeling needs of small-to-medium pathology and histology laboratories. Available in two technology variants — thermal printing (ToronPath™ TC) and infrared laser printing (ToronPath™ TC-i) — this cassette printer pathology solution offers laboratories the flexibility to select the printing method that best aligns with their workflow, throughput, and budget requirements.

Both variants deliver high-quality, chemically resistant cassette markings suitable for long-term archival. The ToronPath™ TC tissue cassette printer features an elegant, space-saving design with an instrument width of ≤ 110 mm — making it one of the most compact cassette printers available for bench-constrained laboratory environments. A 7-inch capacitive touchscreen, Wi-Fi connectivity, and a U-shaped deflector for easy cassette retrieval round out a feature set designed for ease of use and operational efficiency.

APPLICATIONS

Standard Tissue Cassette Printer — ToronPath™ TC Applications

The ToronPath™ TC tissue cassette printer is suited for:

- Small and medium anatomic pathology and histology laboratories with moderate cassette throughput requirements
- Point-of-care and satellite pathology locations where compact footprint and wireless connectivity are priorities
- Surgical pathology grossing stations requiring on-demand, real-time cassette labeling
- Veterinary pathology and specialty diagnostic laboratories
- Pathology training programs and academic departments requiring a reliable, easy-to-operate cassette labeling solution
- Laboratories transitioning from handwritten cassette labeling to a digital LIS/HIS-integrated cassette printer pathology workflow



FEATURES

Standard Tissue Cassette Printer — ToronPath™ TC Key Features

- Dual-technology platform: select thermal printing (300 dpi) or infrared laser printing (2,500 dpi) to match laboratory workflow and throughput requirements
- Ultra-compact design with instrument width of ≤ 110 mm — one of the narrowest footprints among tissue cassette printers available, significantly saving valuable bench space
- U-shaped deflector output design simplifies cassette retrieval after printing, reducing operator handling time and ergonomic strain
- 7-inch capacitive touchscreen interface for intuitive, responsive operation and print management
- Multi-mode data transmission via USB, Wi-Fi, Ethernet, and Serial ports, supporting both wired and wireless laboratory environments
- Free drag-and-drop print layout editor within the cassette printing area; supports multiple pre-configured templates for flexible cassette design
- Clearly prints text, alphanumeric characters, symbols, barcodes, and other identification data on tissue cassette surfaces
- Chemically resistant markings — imprints withstand exposure to xylene and alcohol, enabling long-term specimen preservation
- Output collection capacity of ≥ 5 cassettes per cycle; loading capacity of ≥ 6 slots
- Professional slide loading and output device compatibility for organized cassette processing
- Compatible with LIS, HIS, PIS, PACS, and other commonly used hospital and laboratory information systems
- Built-in operating system with standalone operation — no external computer or workstation required
- Stylish, exquisite instrument design reflecting both form and functionality in the modern pathology laboratory

Powerful Functionality

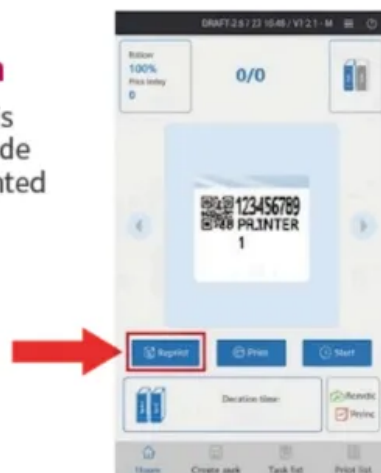
■ Specimen Slide Printing Function

Pre-sealed specimen slides can be printed directly



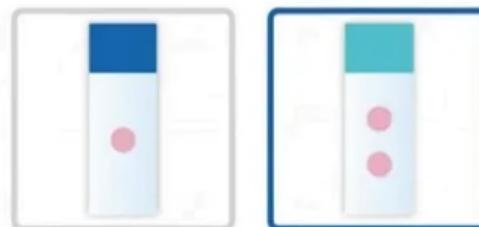
■ Reprint Function

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.

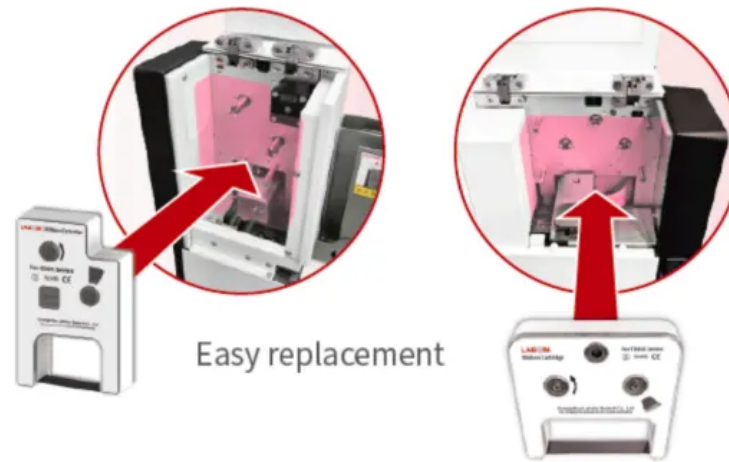
■ Diverse Information Transmission Capabilities

- 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™ TC is available in two printing technology variants, each optimized for different laboratory priorities:

Thermal Printing Variant (ToronPath™ TC): The thermal variant uses direct thermal transfer technology to produce cassette markings. A precision thermal print head applies controlled heat to transfer a thermosensitive coating onto the cassette surface, producing high-contrast, durable markings. Thermal printing offers a proven, reliable, and cost-effective solution for

standard cassette labeling needs, with a print speed of approximately 5–7 seconds per cassette and a print resolution of 300 dpi.

Infrared Laser Printing Variant (ToronPath™ TC-i): The infrared laser variant employs a focused infrared laser beam to permanently mark the cassette surface through thermal ablation. This non-contact process delivers significantly higher print resolution (2,500 dpi) with no consumable media, making it well-suited for laboratories requiring barcode and QR code clarity on cassette surfaces. Print speed is ≤ 4 seconds per cassette. Both variants support free drag-and-drop print layout editing within the print area, enabling fully customizable cassette designs. A professional slide loading and output system, combined with a U-shaped deflector, ensures smooth and safe cassette handling throughout the printing cycle.

TECHNICAL SPECIFICATIONS

Standard Tissue Cassette Printer — ToronPath™ TC Technical Specifications

Parameter	ToronPath™ TC (Thermal)	ToronPath™ TC-i (Infrared Laser)
Product Name	Tissue Cassette Printer — ToronPath™ TC	Tissue Cassette Printer — ToronPath™ TC-i
Printing Technology	Thermal printing	Infrared laser printing
Print Resolution	300 dpi	2,500 dpi
Print Speed	~5–7 s / cassette (Thermal)	≤ 4 s / cassette (Infrared laser)
Loading Capacity	≥ 6 cassette slots	
Output Collection Capacity	≥ 5 cassettes	
Display	7-inch capacitive touchscreen	
Data Transmission	USB, Wi-Fi, Ethernet, Serial ports	

Parameter	ToronPath™ TC (Thermal)	ToronPath™ TC-i (Infrared Laser)
Printable Content	Text, alphanumeric characters, symbols, barcodes, and other information	
Chemical Resistance	Resistant to xylene and alcohol, enabling long-term archival	
Template Support	Multiple templates; free drag-and-drop editing within print area	
Output Design	U-shaped deflector for easy cassette retrieval	
System Compatibility	LIS / HIS / PIS / PACS and other hospital information systems	
Operating System	Built-in (standalone, no external computer required)	
Instrument Width	≤ 110 mm (space-saving compact design)	
Dimensions (W × D × H)	110 × 380 × 353 mm	
Voltage	100-240 V AC, 50/60 Hz (international standard)	



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