




# PANNORAMIC<sup>®</sup> 1000

The fastest digital slide scanner on the market for high-volume scanning tasks



- **Unprecedented** capacity
- **Superior** image quality
- **Flexibility**





For large laboratories or slide archival purposes, the sheer volume of slides require reliable and automated high-throughput slide scanning solutions while maintaining image quality and flexibility.

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PANNORAMIC® 1000, the flagship member of 3DHISTECH's PANNORAMIC® scanners family, is a high-end, extra fast and super-efficient slide digitalization system. Its up-to-1200-slide capacity, up-to-100-slides/hour throughput and robust design offers a reliable solution for high-volume whole-slide imaging.

Thanks to its unprecedented capacity and unparalleled speed, PANNORAMIC® 1000 offers the fastest scanning on the market in excellent quality for high-volume scanning tasks.



# Key Features

## Highest capacity

Up to 1200 slides

- The largest-capacity whole-slide scanner on the market: up to 1200 slides
- Fully automatic loading and scanning

## Shortest scanning time

The fastest

- The fastest whole-slide scanner on the market: up to 100 slides per hour\* throughput

## Innovative hardware design

Antivibration

- Antivibration granite base for maximum stability and image quality
- Dual slide stage
- Robust construction for heavy duty use
- Easy-maintenance robotized loading
- Configurable rack support

## Most efficient slide logistics

Mega Slide

- Double-width slide (mega slide) support with mixed-batch scanning
- Emergency magazine handling, rack prioritization
- Configurable panels for supporting Sakura and Leica racks providing compatibility with different stainer-coverslipper devices
- Rapid loading
- Flexible slide processing, scanning in arbitrary order
- Parallel operation: slide loading and preview in parallel with scanning

- Batch preview function
- Intelligent handling of problematic slides: mechanically problematic slides collected in a safety container

## Solutions for excellent image quality

Excellent image

- Fully automated objective change during scanning
- Advanced water immersion scanning (optional) with precision pipette, water quantity sensor and surplus water removal
- Multilayer (Z-stack) scanning (optional)
- Extended Focus scanning (optional)
- Focus quality check with automated rescanning
- Saving whole-slide image preview (DICOM)
- Multiple scanning profiles, auto selection
- 1D and 2D barcode reading and parsing
- Multiple image compression
- Multiple color profile and schemes
- Multiple image compensation
- Automated tissue detection and automated coverslip detection

## Advanced image processing

Advanced processing

- Deconvolution
- Multiple export options (ROI, grayscale/color, multichannel)
- Lossless image export to 3D applications

## Key Characteristics

- **Slide capacity:** up to 1200 slides depending on rack configuration (default: 840 slides: 800 standard and 40 Mega slides)
- **Supported slides:** normal and double-width slides
- **Number of rack panels:** 5 with wide configuration options - supported types:
  - » Sakura (type 4768) compatible panel (200 slides / panel)
  - » Mega slide panel (40 mega slides / panel)
  - » Leica (type 14051252473) compatible panel (240 slides / panel)
- **Image acquisition camera:** 12 MP sensor
- **Microscope objectives:**
  - » 20x, NA 0.8, Plan-Apochromat, 0.25  $\mu\text{m}$ /pixel
  - » 40x, NA 0.95, Plan-Apochromat, 0.12  $\mu\text{m}$ /pixel
  - » 40xw, NA 1.2, C-Apochromat, 0.12  $\mu\text{m}$ /pixel
- **Digital slide format:** MRXS overlapped, MRXS non-overlapped and DICOM formats
- **Scan method:** Area scanning with continuous stage movement and Flash illumination
- **Dimensions (W x D x H in centimeters):** 154 x 100 x 91 (base unit only)
- **Weight (kg):** 270 (base unit only)



Please note that the PANNORAMIC® 1000 digital slide scanner is for research use only, and cannot be used for patient diagnosis or treatment selection.

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Developed and produced by



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