



The Mikroscan™ 5-20 Series of Remotely Controlled Telepathology Systems

Rapidly review entire cases with our 20-slide capacity L5-20 and SL5-20 systems.

- *20-slide capacity mirrors traditional pathology folders*
- *With double the scanning speed, yields 420 slides per day based on 15 x 15 mm specimen*
- *Auto dock-and-lock feature that secures stage for transport*
- *With just a 33% increase in bench depth, the 5-20 systems have the smallest footprint of any system at this performance level*
- *Includes 4K-resolution monitor*
- *High-resolution main camera*

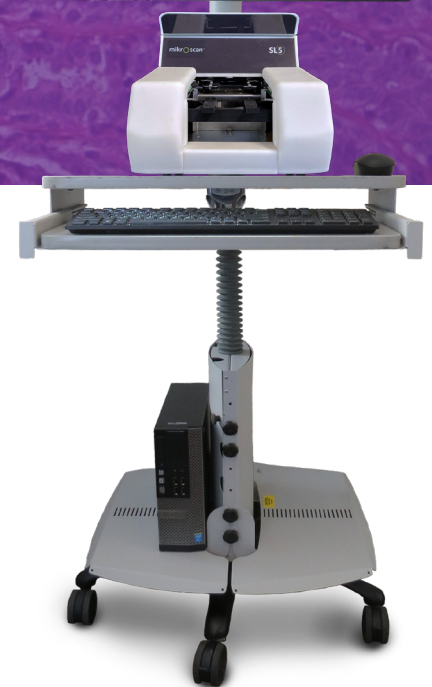
Autoloader Capabilities

The autoloader supports both existing and discretely different modes of live robotic microscopy and digital pathology whole-slide imaging*. Remotely located users have complete control of the autoloader, which can operate in fully automated or manual mode for review of challenging specimens where illumination controls are required. Sequential and random access to a specific slide is also supported, as is a pause-and-replace capability to support the time-sensitive needs of a frozen section with minimum interruption to the slide review process.

Slide Holder Design

Mikroscan's slide holder design supports the widest range of slide sizes found around the globe. Each holder accommodates two 1 x 3" slides, and the autoloader cartridge accepts 10 holders. Each autoloader is supplied with two cartridges and 50 slide holders, supporting continuous operation. The slide holder design also presents an attractive space-saving way of storing slides and minimizing slide handling.

An upcoming release of the slide holder will support 2 x 3" slides, allowing 10 2 x 3" slides or a combination of 1 x 3" and 2 x 3" slides to be loaded into the slide cartridge.






*For Research Use Only. Not for use in diagnostic procedures.

System Specifications

Environmental Conditions

Operating Environment: Indoor Use, Pollution Degree 2, Altitude up to 2000 m, Overvoltage Category II, Voltage Fluctuations up to +/- 10%

| | | |
|--|-----------|---|
|  TEMPERATURE | Operating | 41°F (5°C) to 104°F (40°C) |
| | Storage | 32°F (0°C) to 140°F (60°C) |
|  RELATIVE HUMIDITY | Operating | 30 to 80% rH for temperatures up to 31°C, decreasing linearly to 50% rH at 40°C |
| | Storage | 10 to 95% rH |
|  ATMOSPHERIC PRESSURE | Operating | 700 to 1060hPa |
| | Storage | 500 to 1060hPa |

Product Specifications

| | |
|---|---|
| AC Input Voltage: | 100-240V~, 50-60Hz, O.V. Cat II, voltage fluctuations up to ± 10% |
| Instrument Power Requirement: | 24VDC --- 100W |
| System Dimensions: | 50 x 30 x 24 cm (L x W x H), 18 kg |
| Expected Service Life of Equipment and Accessories: | 5 years |

Autoloader Cartridge and Slide Holder Specifications

Slide Holders*: 50 supplied with each autoloader system. Each slide holder can hold up to two 1 x 3" slides.

Material*: Durable nylon, resistant to various chemicals, solvents, alcohols, and other products.

Cartridges: Two supplied with each autoloader system. Each cartridge can hold up to 10 slide holders, for a total of 20 1 x 3" slides per cartridge. Additional cartridges can be purchased separately.

| Magnification (OEM)†: | 20x | 40x |
|--|---|--------------------|
| Scan Speeds: (20 slides, each with a 15 mm x 15 mm scan area) | 21 sec. per slide | 66 sec. per slide |
| Scanning Time to View: Includes 5 Focal Points (Processing and Saving Time) | 53 sec. per slide | 139 sec. per slide |
| Live Mode Throughput: Time to View 20 Slides (10 slide holders) | 3 min. for 20 slides (9 sec. per slide) | |
| Slide Sizes | 25.5 x 75.5 ± 0.5 mm (1 x 3" nominal) | |
| Slide Thickness | 1.0 ± 0.1 mm, not including coverslip | |
| Number of Slides | 20 | |

*Slide holders are intended to be replaced if they show signs of excessive wear or cracking. Additional slide holders can be purchased separately. Contact Mikrosan for availability of 2 x 3" slide holders.

†Full nylon compatibility chart available upon request.

‡Optical Equivalent Magnification is the approximate analog (optical) equivalent that would produce images with similar resolution as the listed digital magnification, which is measured in microns per pixel (µm/pixel). Reference: J Pathol Inform 2013, 1:21

To meet the needs of an increasing number of mobile telepathology applications, L5 and SL5 systems ship with an automated dock-and-lock feature that greatly simplifies use in mobile environments.

Contact our team for more information about our solutions and applications or to schedule a live demonstration.

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