

Technical Parameters of Digital Pathology Slide Scanner

Model
LG-S80

Slide Loading Method
Automatic Loading

Slide Capacity
80 slides (8 racks, 10 slides/rack)

Continuous Scanning
Unattended, Automatic Scanning

Objective Lens
Dual Objective Lens Electric Conversion Plan-Apo 20×/0.8 & Plan-Apo 40×/0.95, Selectable at 20× or 40× before scanning

Scanning Resolution
20× Objective: 0.27 μm/pixel
40× Objective: 0.13 μm/pixel

Z-stack
Captures images at different focal planes along the Z-axis within the scanning range

Scanning Throughput (20× Objective)
15 slides/hour (for 15×15 mm tissue, yielding clear results)

Extended Depth of Field
Extends depth of field by fusing multiple scanned images into one layer, supporting up to 99 layers

Specimen Recognition
Automatically and accurately recognizes tissue shapes, scanning only the valid tissue area

Fluorescence Scanning (Optional)
10-position electric turret, high-stability solid-state light source, enabling true immunofluorescence stained slide scanning

Scanning Types
HE staining, IHC staining, TCT, bone marrow biopsy, frozen sections, TMA sections, immunofluorescence stained sections, FISH stained sections, special stained sections, hard tissue pathology sections, plant tissue pathology sections, etc.

Slide Dimensions
75mm-76mm Width: 25mm-26mm Thickness: 0.9mm-2mm (without coverslip)

Scanning Field of View
52×25 mm

Software System
Scanning control software, image browsing software

Scanning File Format
SVS

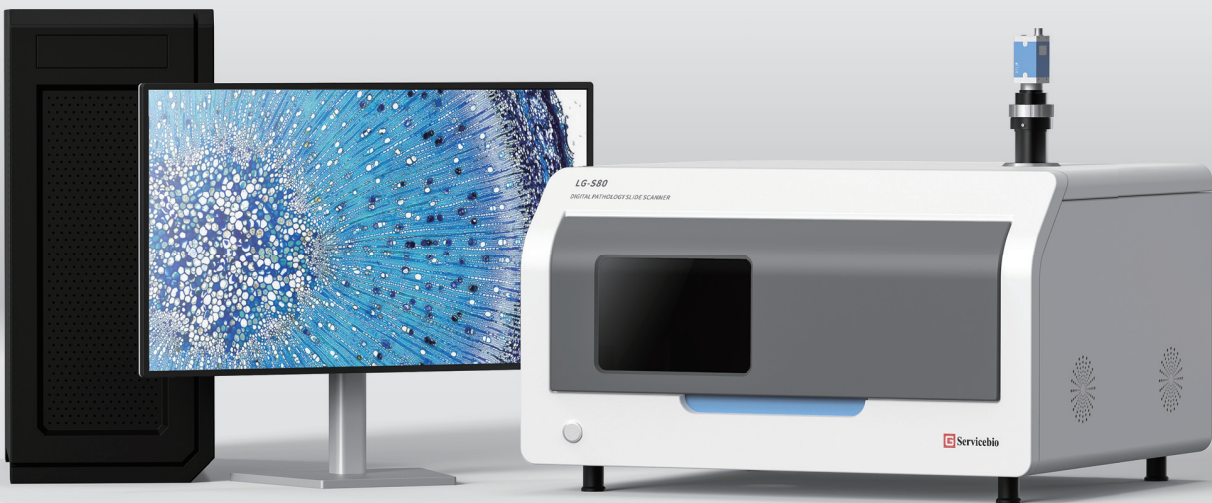
Instrument Dimensions
660×600×565 mm

Barcode Reading
Can automatically read 1D and 2D barcodes, and name slides using barcode content

Instrument Weight
55 kg

Digital Pathology Slide Scanner

LG-S80



Easily Handles Thick Slides

Supports scanning of slides with a thickness of 0.9-2mm

Easily Handles Thick Tissue

Supports 99-layer image fusion for more vivid detail imaging

High Throughput

Brightfield, 80 slides, 15 slides/hour

High Clarity

IHC positive signals are more obvious

High Efficiency

Unattended, automatic continuous scanning

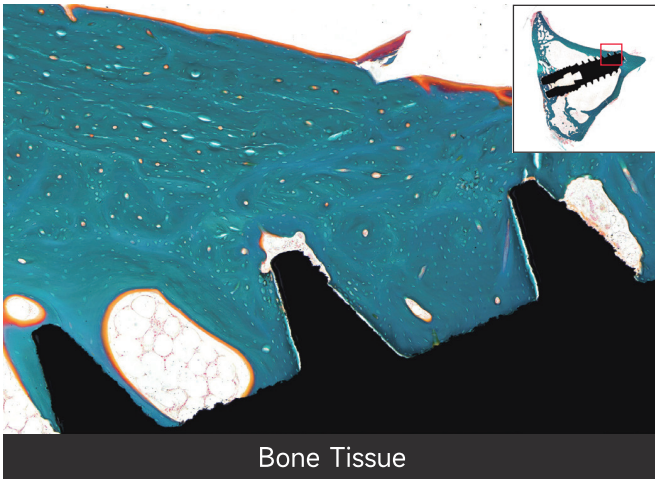
» Easily Handles Thick Slides



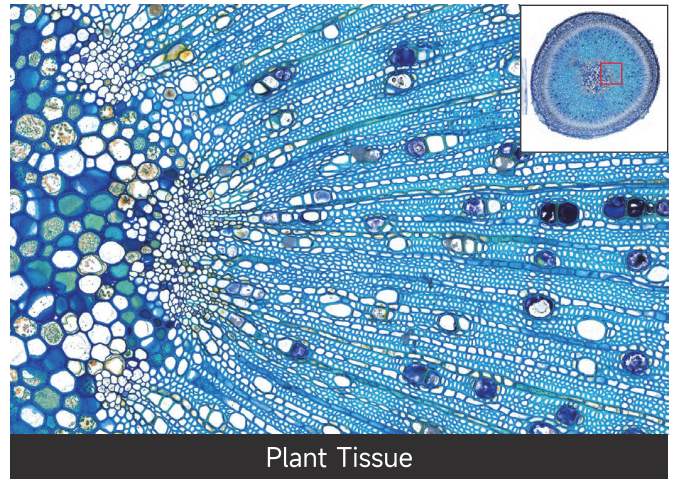
How to scan hard tissue sections with a thickness of up to 2mm?



Supports scanning of slides with a thickness of 0.9-2mm, easily handling hard tissue sections



Bone Tissue



Plant Tissue

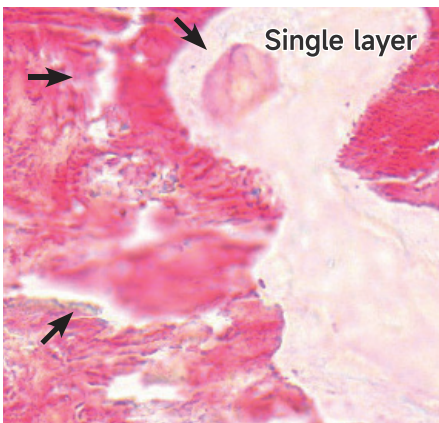
» Easily Handles Thick Tissue



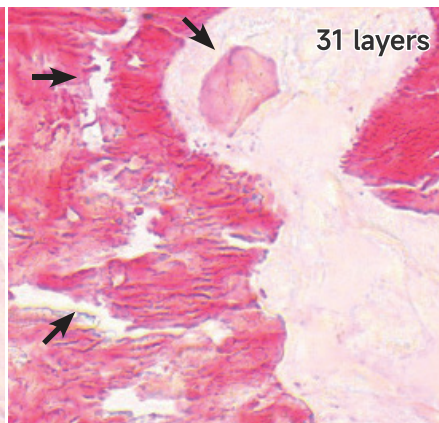
How to retain imaging detail for tissues with a thickness of up to 100µm, such as Golgi staining?



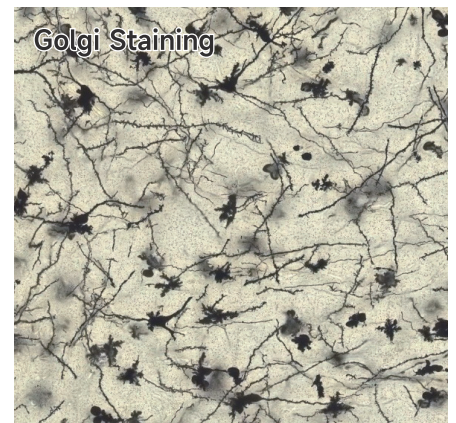
Supports 99-layer image fusion to ensure more vivid detail imaging of thick tissue!



Single layer



31 layers



Golgi Staining

Conclusion of VG staining for bone and hard tissue sections; Multi-layer scanning ensures more precise, clearer, and more vivid imaging detail of thick tissue

More Vivid Details

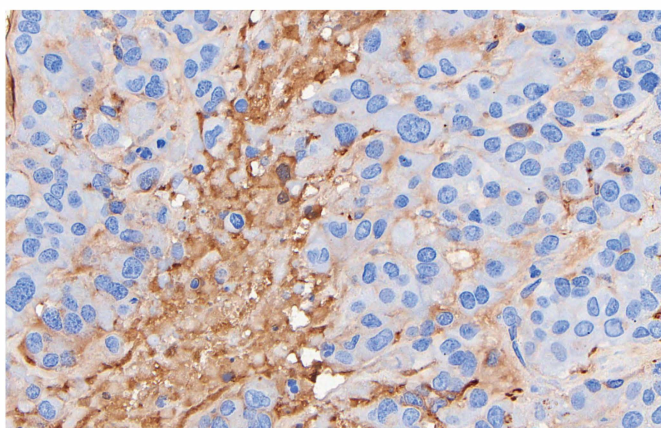
» Imaging is clearer, and positive signals are more obvious



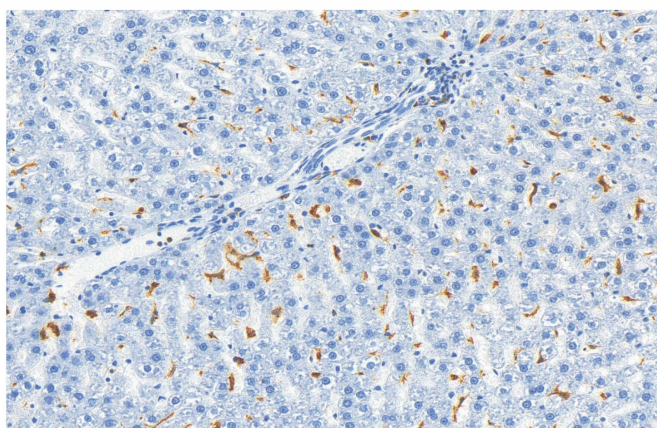
What to do if immunohistochemical scanning results are not clear and positive signals are not obvious?



Scanning produces clearer images with more obvious IHC positive signals!



Positive signals are very obvious



Positive signals are very obvious

» Unattended Operation, Improving Work Efficiency



Many samples, long scanning times, and decreased efficiency of observers due to high-intensity work?



Can operate unattended with automatic continuous scanning, with a capacity of 80 slides



 Can scan up to 300 slides per day