

## Vision Slide



Digital solution for virtual sample preparation in microscopy

virtual sample  
preparation



# New standards in the daily work

## Applications



medicine



clinical laboratory



cytology



histology



pathology



forensics



life science



education



biology



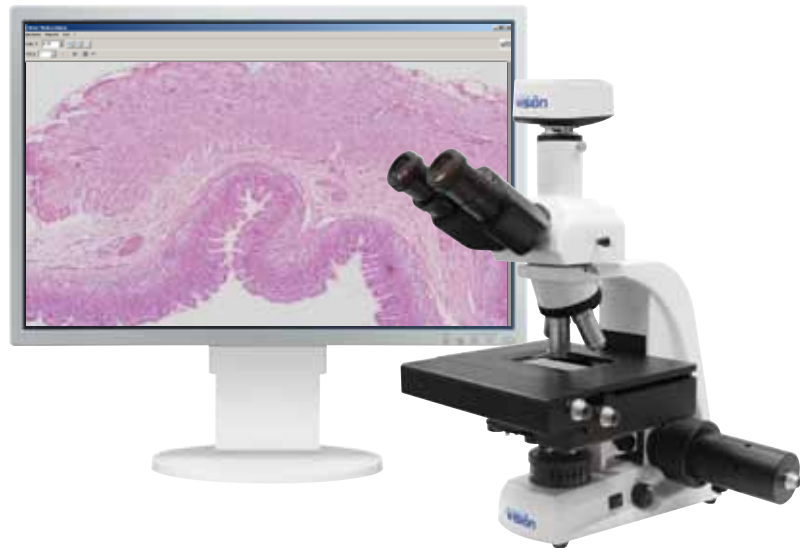
remote consultations



specialist training



telemedicine



## Digital microscopy

Digital microscopy (digital pathology) is a digital environment for managing and analyzing microscopy data, which is obtained using a microscope, a camera, software and a computer.

Digital microscopy allows you to attain qualitative and quantitative results, which are either impossible to receive by other means or cost and time consuming.

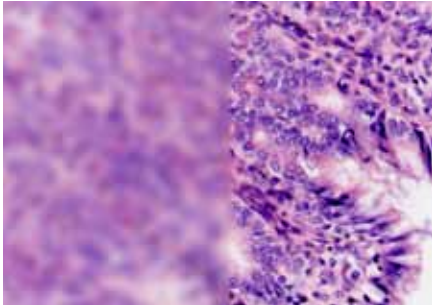
## Digital sample

Single images are 'stitched' automatically to make a complete microscopic digital sample ('virtual slide').

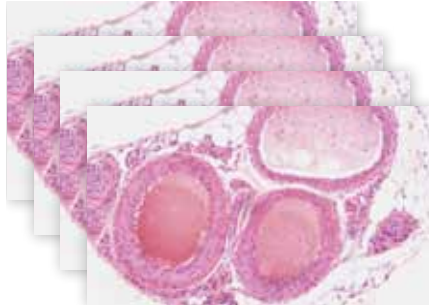
A digital microscopic sample is indispensable when you have an object that can't be seen entirely in the field of view with the required magnification — it is just not possible to see it completely without creating a "virtual sample".

Digital samples don't fade or break; there is also no risk to damage or lose the object of examination.

# Main benefits



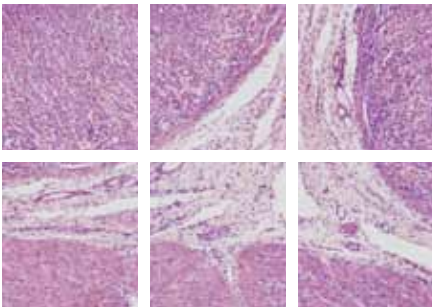
1 Autofocus — automated focus adjustment



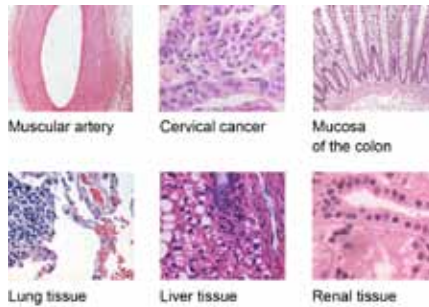
2 Z-scanning of the sample layer-by-layer



*I keep microscopic slides as digital samples on my office computer. I organize them the way I want and I always find what I am looking for easily. Digital slides never fade or get damaged like the glass. I do not worry about breaking or losing it*



3 Digital sample editor



4 Atlas of microscopic images



5 Database: storage, filters and search options



6 Motorized biological microscope and Vision digital camera





# Digital sample preparation

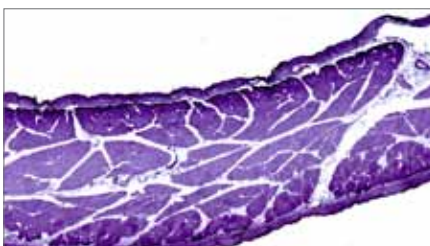
1

## Create a digital sample

Prepare a microscopic slide and place it on the stage of your motorized microscope.



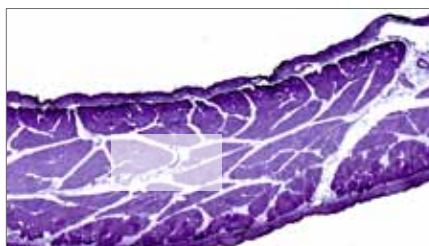
Set the required parameters: size, thickness and location of the object, and autofocus if required. After that Vision system will prepare a complete digital sample automatically.



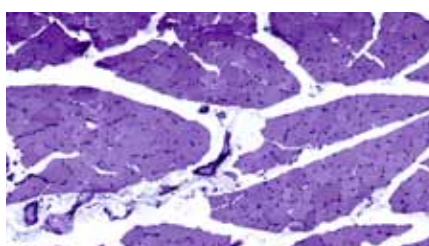
2

## Select a specific area of the digital sample

If required, you can scan the slide again with a higher magnification (40x or 100x).



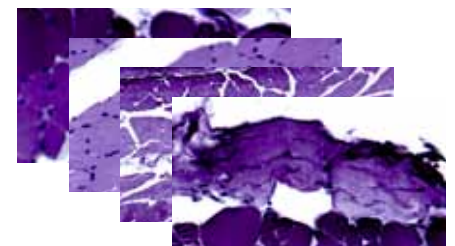
This will provide additional quantitative information, as well as significantly improve the detalization of a specific area of the primary image.



3

## Securely save it in the database

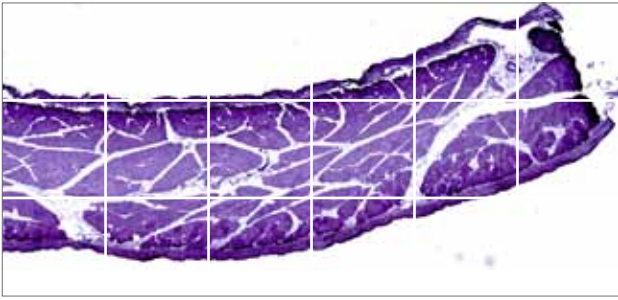
Digital microscopic samples are saved in the database.



Use the "Digital sample editor" to import, export and edit individual frames as well as complete digital samples.

Digital microscopic samples can be used for remote consultations with colleagues, video conferences, publications on specialized social networks, etc.

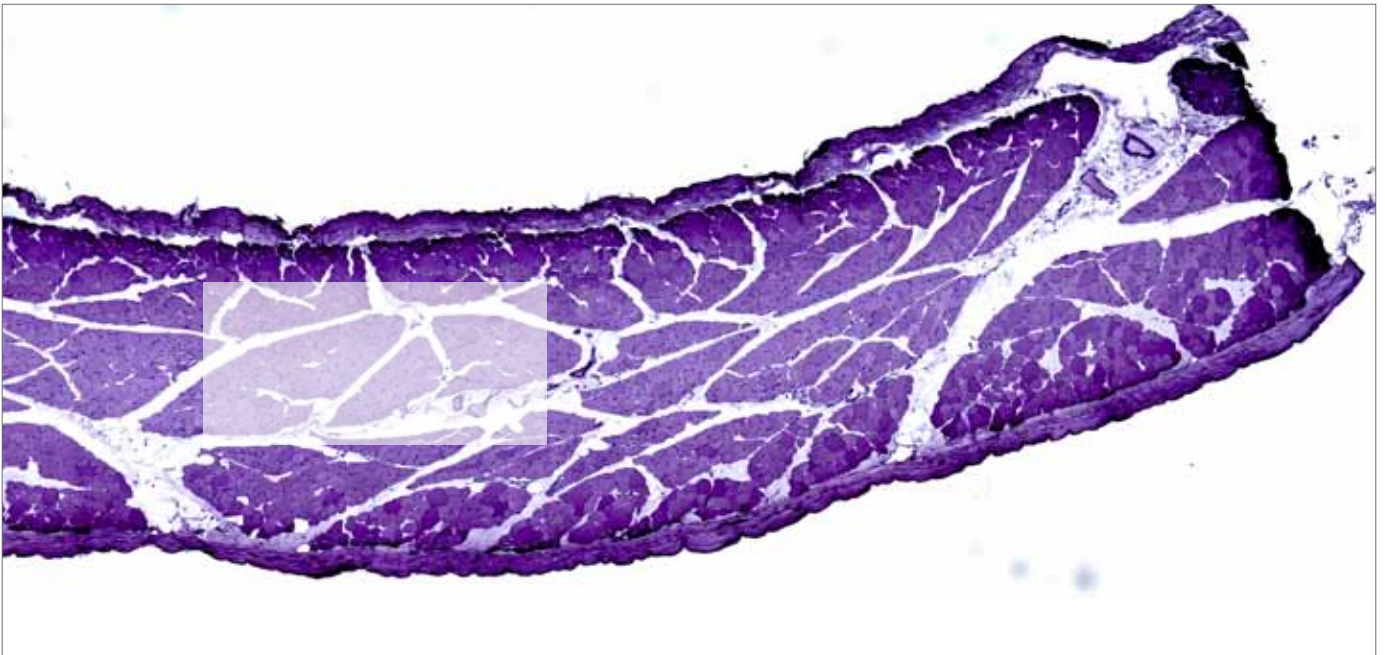
## Example 1 – Striated muscle tissue



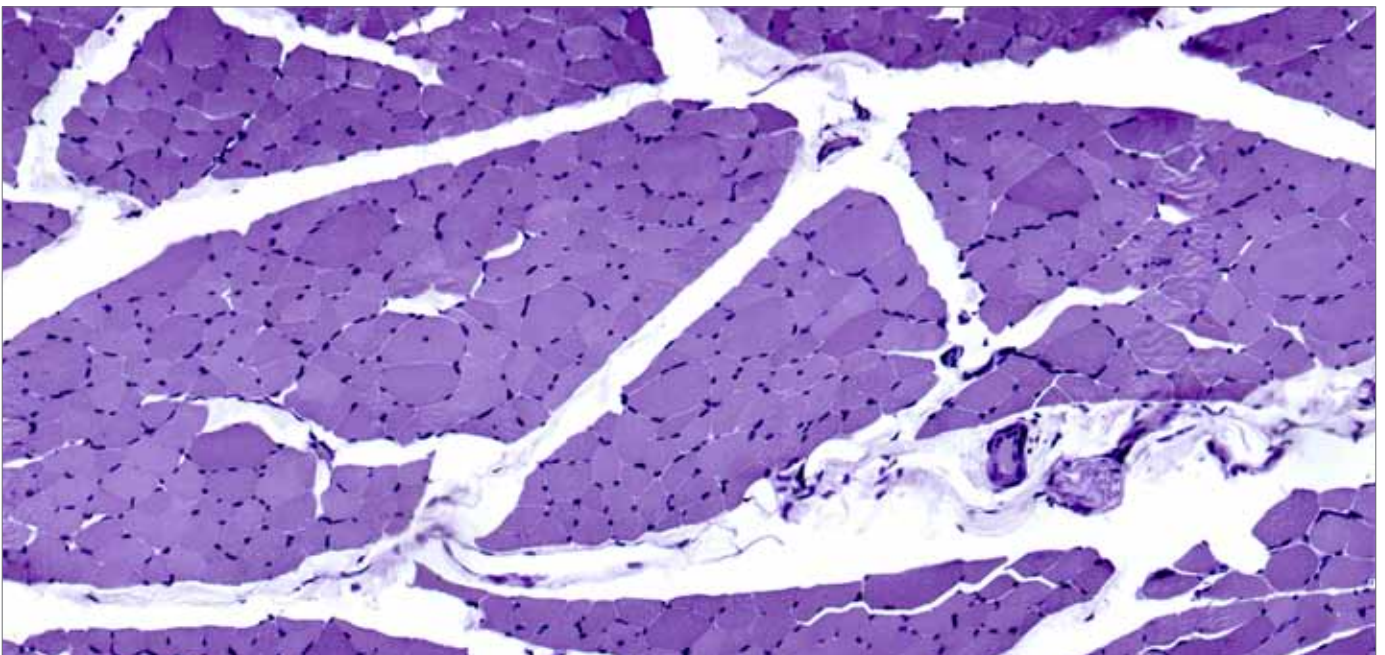
series of microscopic frames of a digital sample, 10x objective



panoramic digital sample after “stitching” the microscopic frames, 10x objective

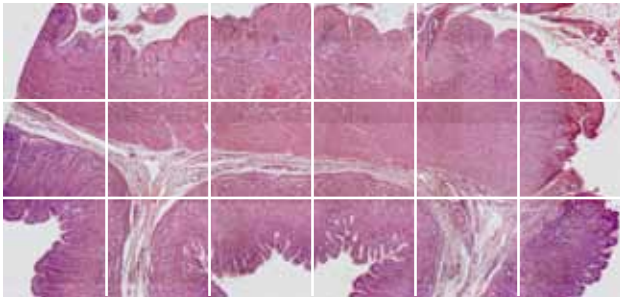


digital sample with an area selected for detailed examination, 10x objective

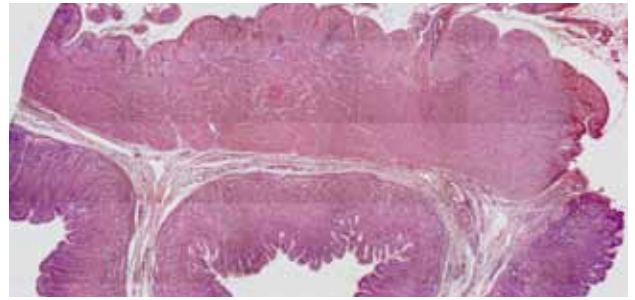


digital sample of a magnified selected area, 40x objective

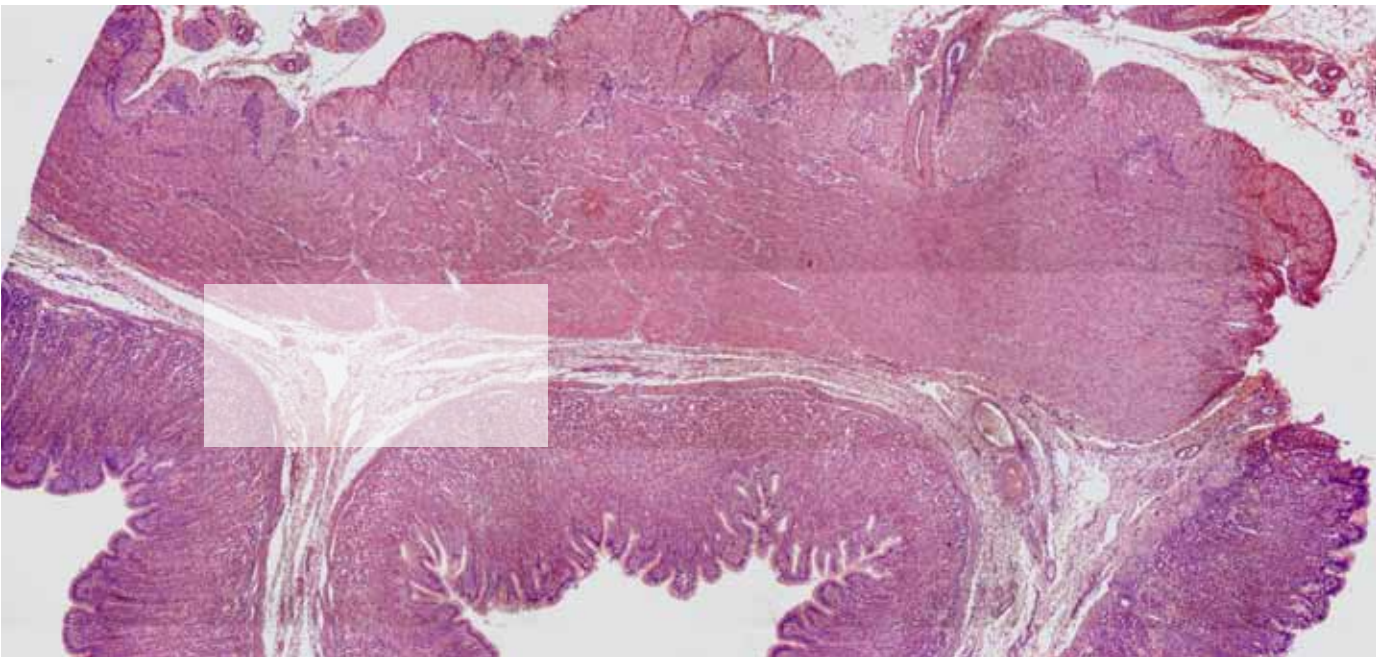
## Example 2 – Gastric tissue



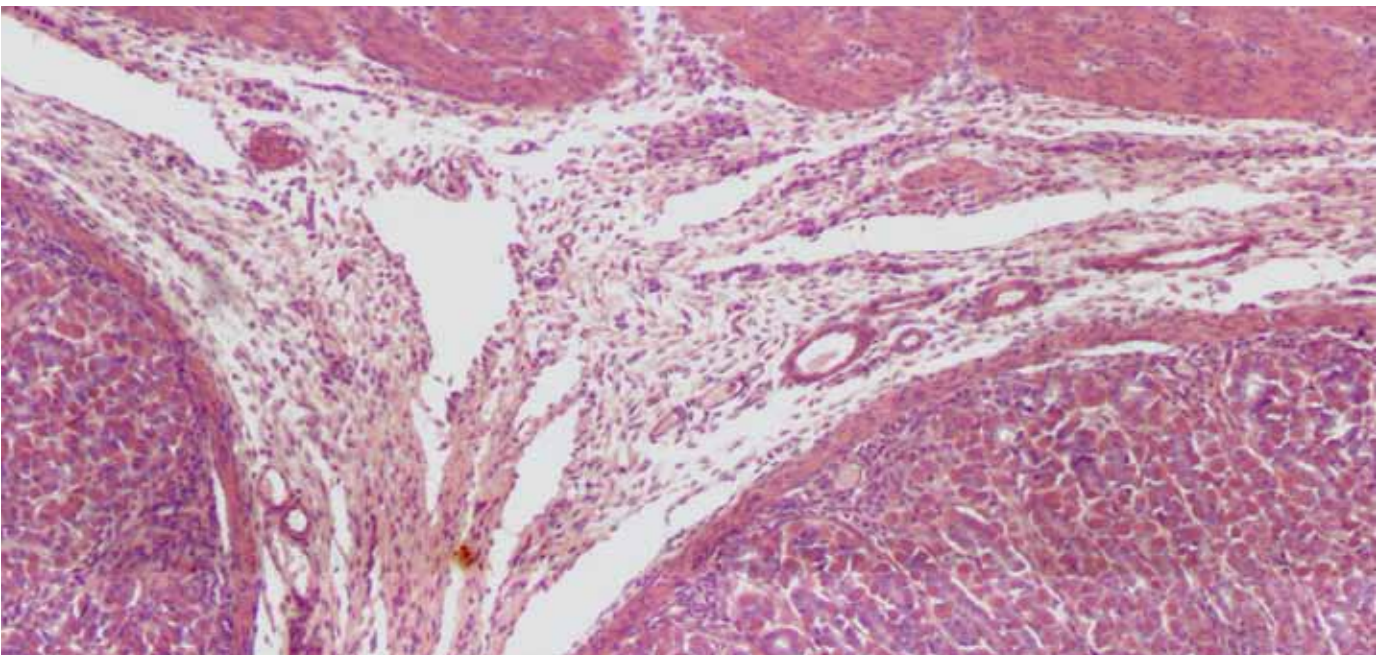
series of microscopic frames of a digital sample, 10x objective



panoramic digital sample after “stitching” the microscopic frames, 10x objective

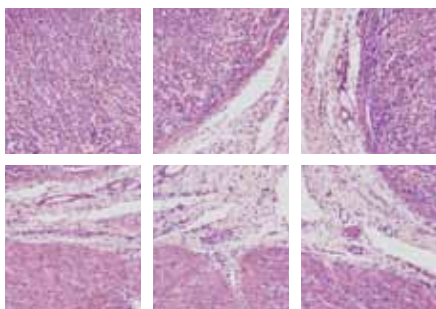


digital sample with an area selected for detailed examination, 10x objective



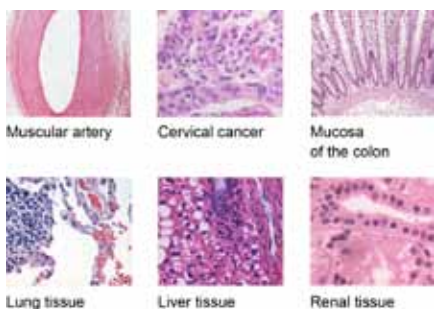
digital sample of a magnified selected area, 40x objective

## Main features



### Editor for digital samples

Image editor is used to manage and edit frames of a digital sample. There is a date, ID and name of every digital sample displayed in the editor. Select a sample in the gallery to display automatically all the its frames, that can be scaled freely.



### Atlas of digital samples

Atlas of microscopic objects is a customizable hierarchical database. Customize the atlas structure by adding required sections and text comments to microscopic images.



### Reliable database

Vision database stores all patient records and microscopic samples. Information is shown in a form of a patient record with an image attached.

The system saves all data automatically, excluding any possibility of losing valuable information. Advanced data management tools, like filtering and sorting, will help you not to waste time on searching.



### Network capabilities

- view digital samples on the screen and discuss with your colleagues
- print out your digital samples
- data import/export to other information networks (LIS/HIS)
- share information with your colleagues wherever they are. Send your digital samples by email
- organize video conferences with colleagues from around the world
- connect, via Internet, multiple workplaces to a remote server
- publish your research on specialized social networks



Improve your standards and enhance the quality of your work! Take control of the increasing amount of information in your laboratory.

## Vision concept

Vision concept is a modern approach to diagnostics, combining microscopy, digital image processing and analysis data. Specialists, that are looking for professional development and recognize new digital technologies, are presented with unlimited resources in their field.

## Vision digital solutions

Vision digital solution is a workplace to obtain, manage, analyze and interpret digital microscopic samples. You work with a unified system where priority is given to efficiency.

## Vision+ digital solutions

Vision+ digital solution combines the possibilities of digital solutions in microscopy and analytic medical devices to provide an integrated patient assay and a correct diagnosis.

## Ordering information

Description	Code
<b>Vision Slide system</b> Set includes: motorized trinocular microscope MT5300L, Vision digital camera CAM V1200, Vision Slide software, PC, monitor, printer.	<b>70.0102.00</b>

WEST MEDICA  
 Franz-Siegel-Gasse 1  
 2380 Perchtoldsdorf, Austria  
 tel.: +43 (1) 804 81 84  
 fax: +43 (1) 804 81 85  
 vienna@westmedica.com

[www.vision-at.com](http://www.vision-at.com)

We reserve the right to change specification without notice.

Official distributor

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