

Vision Album



Digital solution for management of digital albums in microscopy

management and image enhancement



New standards in the daily work

Applications



medicine



clinical laboratory



cytology



histology



hematology



pathology



forensics



microbiology



veterinary



life science



education



biology



botany



zoology



remote consultations



specialist training



telemedicine



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

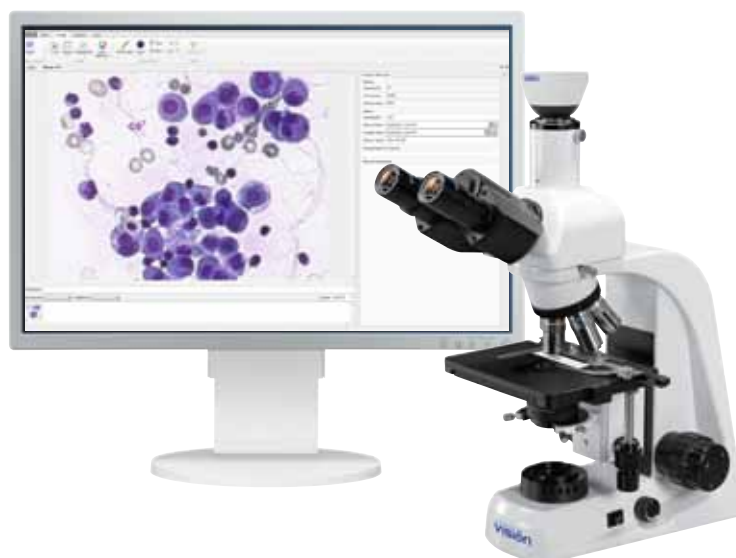
Vision digital solution is a workplace to obtain, manage, analyze and interpret digital microscopic samples. You work with a unified system where priority is given to efficiency.

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.

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

Vision solution



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.

Vision Album



The dynamic solution for organization of microscopic samples into digital albums. Professional tools for digital image enhancement.

Efficient unified system



- 1 Vision software
- 2 Personal computer
- 3 Biological microscope with Vision camera

Local network
LIS/HIS
Internet

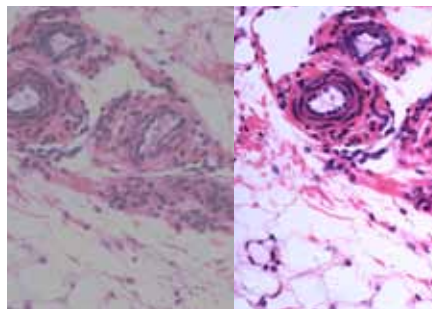
Vision Album digital solution

combines microscopy and digital imaging to create and manage superior quality digital samples

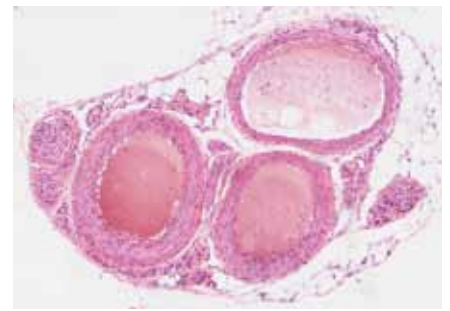
Main benefits



1 Professional microscopic examination and generation of superior quality digital samples



2 All the necessary tools for digital image enhancement



3 Reliable data management system stores all digital samples



7 Easy access to digital samples



8 Telemedicine and remote consultations with colleagues



9 Education for specialists: scientists, doctors, lab technicians and students



Workflow optimization

1



Quick and easy patient registration

Creating and managing patient records became much easier. All patient data are shown in a chart form and can individually be adjusted by selecting the necessary fields: ID, name, surname, date of birth, age, etc.

2

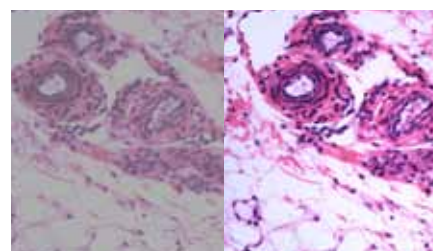


Samples are conveniently organized in digital albums

Digital album is a modern approach to create, edit, manage and classify digital samples.

To each stored album you can add marks and comments.

3



Professional tools to work with digital samples

Find a required object on the microscopy sample in video mode, and capture its perfectly crisp digital image in one quick step.

4



Comment configuration according to your own requirements

Comments about digital samples are added to your report via adjustable comment guide.

Add the required fields (text/numeric field, list box, etc.), and they will appear in your report about a digital album.

5



Secure and reliable date storage

Vision database stores all patient records and digital 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.

6



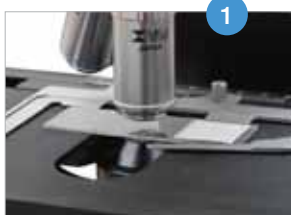
Benefits of Internet connection

Connect several workplaces to a remote server and hold video conferences with colleagues from around the world, exchange digital albums, and publish your research on specialized social networks.



Image enhancement

Image capture procedure



Find object of interest



Save captured image in the album



Edit image if necessary

Camera control tools



Camera settings

Different modes when working with color (8 or 16 bit) allow color depth adjustment. "Field alignment" function removes any image defects: uneven field illumination, dust and scratches on optical components of the system.



Color settings and exposure/brightness control

Manual or automatic color settings give the possibility of image adjustment according to illumination (LED or halogen). If its necessary to change image brightness, adjust exposure.



Histogram

Histogram explores contrast, saturation and exposure of the image, as well as estimates what is required when capturing/enhancing an image.



Preview

Live image preview. "Zoom" function lets you magnify the sample. "Resolution" function sets the size of the captured image in pixels.

Image editing tools

Crop

Select a fragment of an image and save it as a separate digital sample.

Scale

Reduce the image size for easier online operations.

Rotate

To make examination easier, turn your microscopic image at a certain angle.

Color

Select a color from a preset palette, use the 'Pipette' tool to select it from the image directly or set precise RGB values with alpha blending (transparency).

Color adjustment

To ensure the best quality of your digital image, use color adjustment tools such as brightness, contrast and saturation settings.

Edit

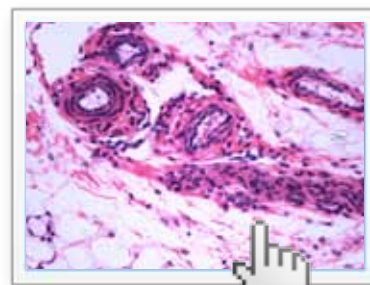
You can easily remove minor defects if they hamper your work.

Export/import

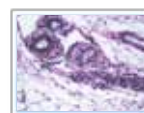
To exchange samples with your colleagues, it is easy to import and export images from your database.

Ergonomic image editing tools facilitate fast enhancement of a microscopic sample image

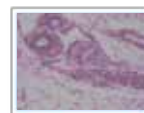
One click on a 'Color settings' button to correct an image and get a superior quality digital sample.



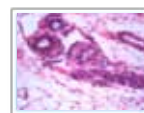
1 click



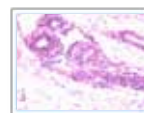
hue/saturation



brightness/contrast



sharpness



color balance

Database



*Thanks to the database
I can be sure that my
digital microscopic
samples are stored
securely*



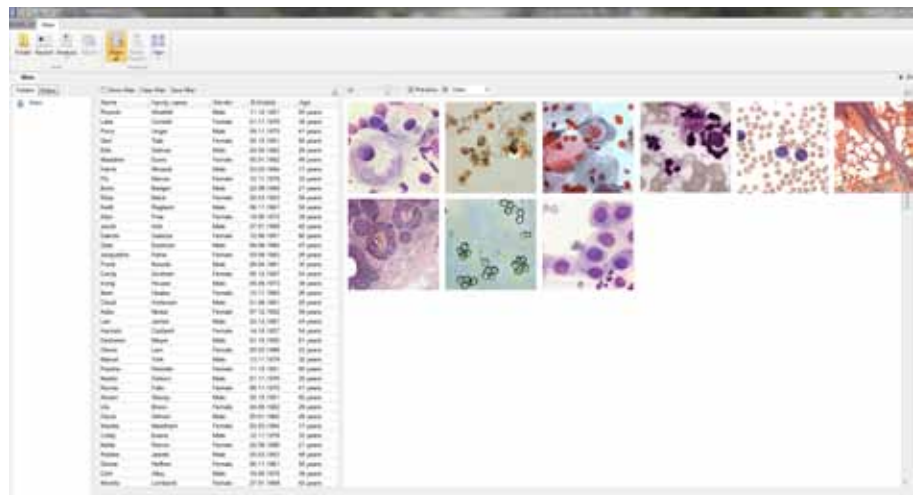
Reliable database

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.

Storage, quick search, cooperation with colleagues, remote access via Internet and integration into other information networks (LIS/HIS).

If you need additional data fields to a patient record, we can help you customize the database according to your requirements.



Report generation

ALBUM REPORT		MedLAB	
Category		Sample collection date / time	9/25/2011 8:03 PM
Sample ID	518	Analysis date / time	9/25/2011 8:03 PM
Test number	3		
Patient ID	12	Insurance	
Name	Kate Smith	Medical record	
Birthdate	7/17/1975	Institution	
Gender	Female	Institution address	
Country		Department	
City		Ward	
Zipcode		Practice	
Address		Physician name	
		Diagnosis	
Images			
			
Comments			
No comments			
Validated by			
Name	Frank Jones	Date	9/23/2011
Position	Lab technician	Time	4:43 PM
Signature _____			
		Page 1/1	

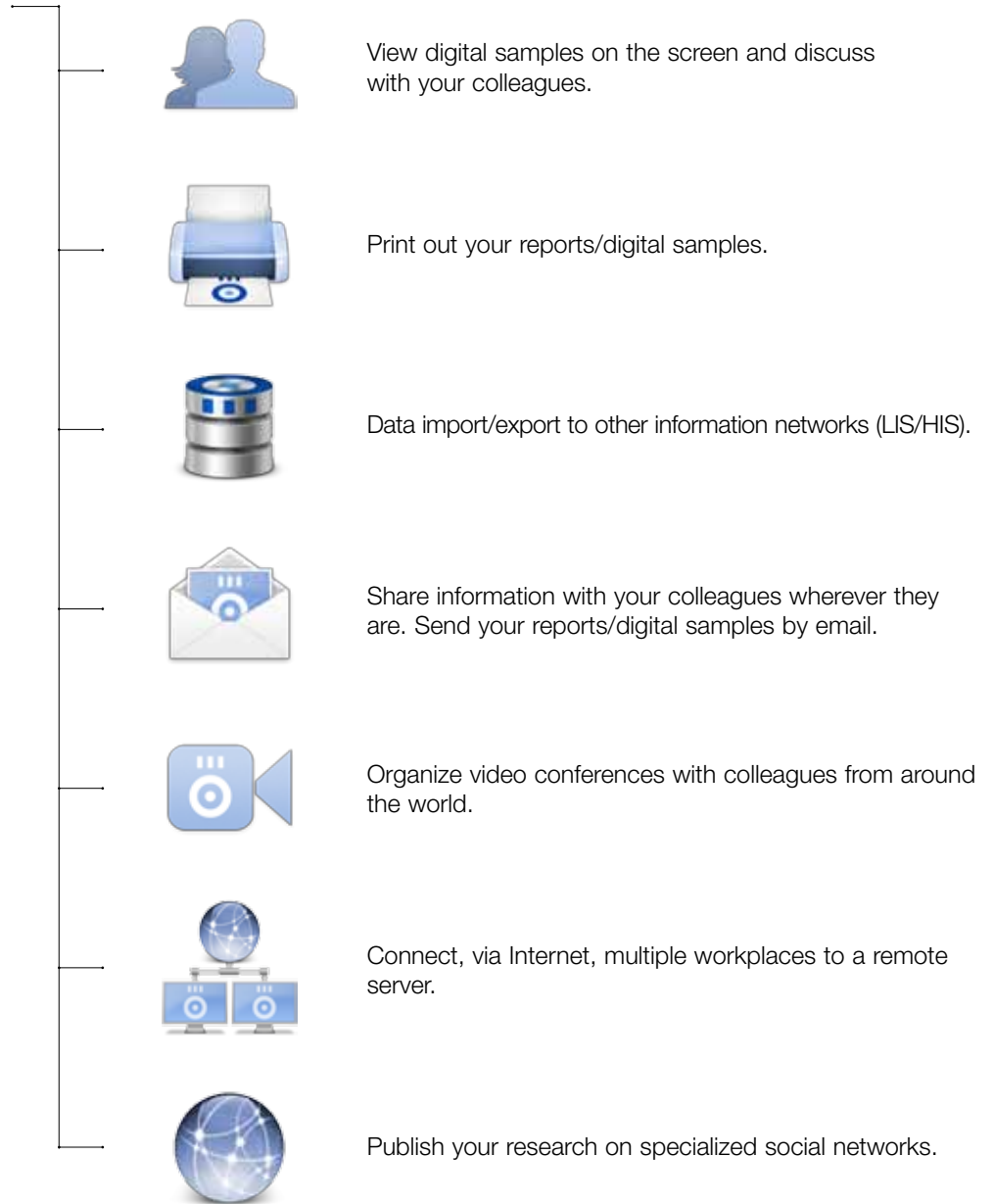
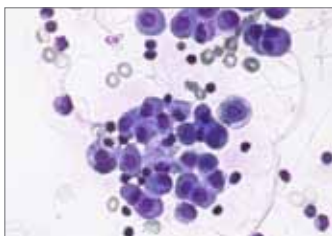
Professional report

You decide how your report will look like.











You can take into account different template requirements (form and content). Possibility to add and delete patient information fields and images.

Send your report to colleagues by e-mail, publish on a specialized social network or simply print it out.

Network capabilities



Main characteristics

Description	Vision Album	
	Biological trinocular microscope with “infinite” optics and Vision digital camera. Preview live video on a PC as well as capture a digital microscopic sample.	
	Personal computer with Vision Album software, high resolution monitor and color printer.	
	A professional set of tools to work with digital samples: create, edit, organize, classify and comment.	
	Storage, quick search, cooperation with colleagues, remote access via Internet and integration into other information networks (LIS/HIS).	
	Report operations: search, preview, edit, print, e-mail and export in popular formats: PDF, DOC, XLS, JPEG, GIF, PNG and many more.	

Ordering information



Description	Code
Vision Album system Set includes: MT4300L biological microscope, Vision CAM V500 digital camera, Vision Album software, PC, monitor, printer.	60.0001.00
Vision Album software Set includes: Vision Album software.	20.0001.01



Digital cameras for microscopy — from economic to professional with extra high resolution





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

We reserve the right to change specification without notice.

Official distributor

Rev 3.0/09.2011 EN