

Cell Imaging Analyzers for Bone Marrow Samples



Vision Assist



Key features

- Loading 1 or 4 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- For small and medium-sized laboratories

Scanning process



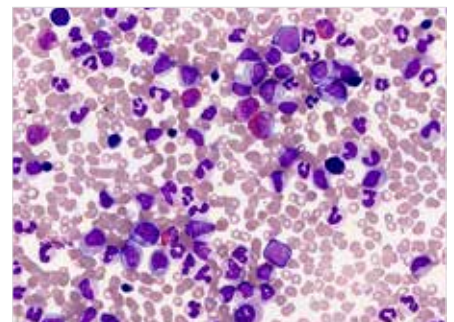
01

Place the slide to the microscope



02

Start scanning



03

Get the result!

Vision Pro



- Loading 4 or 8 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- Random access
- For medium and large laboratories

Vision Ultimate 120



- Loading 120 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- High scanning speed and image capture of the whole sample
- Random access and testing of urgent samples
- Night shift work without an operator
- For centralized and large-sized laboratories

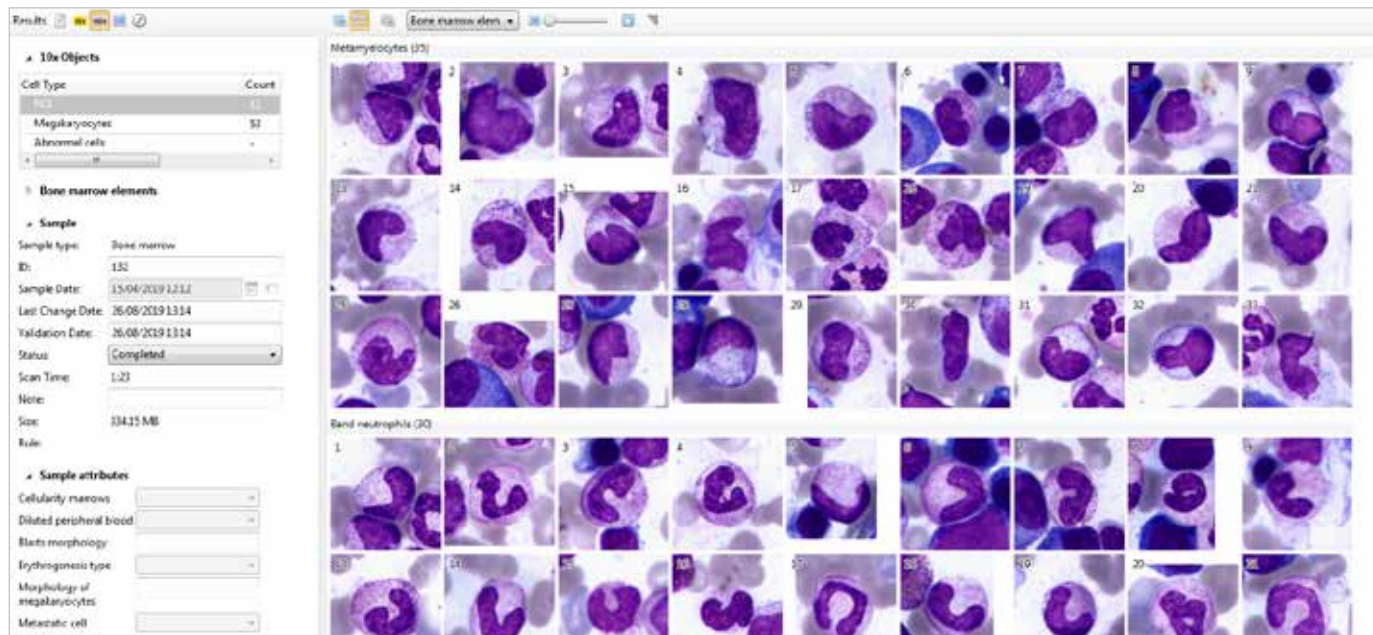
Vision Ultimate 200



- Loading 200 slides
- Automatic sample scanning
- Automatic analysis and pre-classification
- High scanning speed and image capture of the whole sample
- Random access and testing of urgent samples
- Night shift work without an operator
- For centralized and large-sized laboratories

Vision Bone Marrow

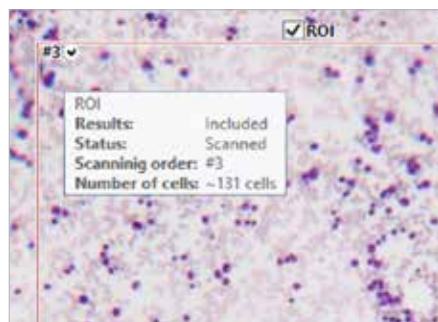
Automatic analysis of bone marrow cells



Analysis of Bone Marrow cells

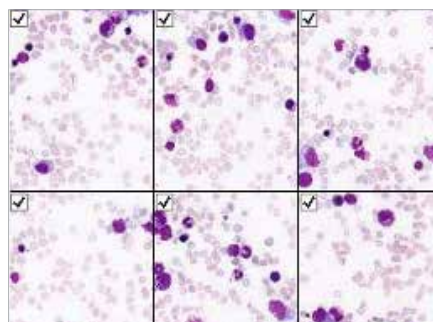
- Blasts
- Basophils
- Eosinophils
- Promyelocytes
- Myelocytes
- Metamyelocytes
- Band neutrophils
- Segmented neutrophils
- Lymphocytes
- Erythroblasts

Digital technology in Bone Marrow analysis



ROI cellularity assessment

Pre-counting of cells in ROI on a 10x digital slides



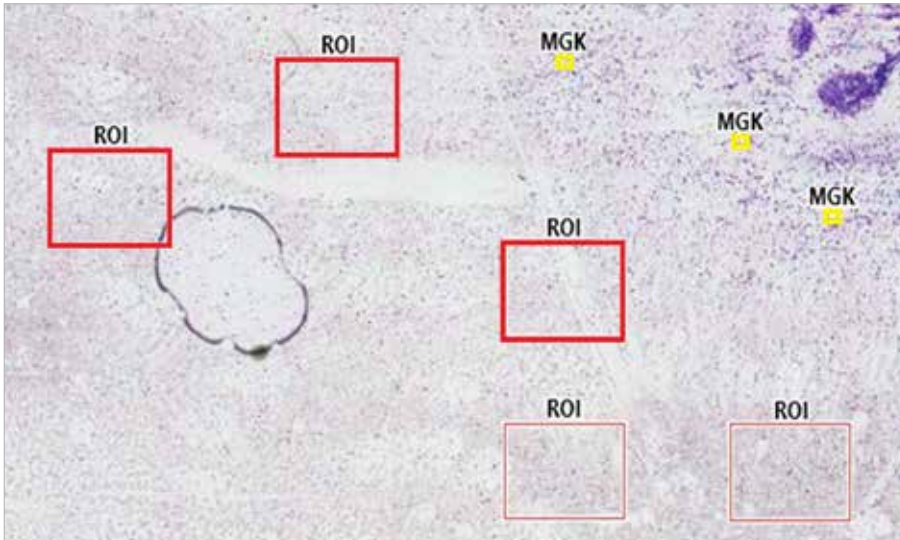
Selection of view fields for analysis

Inclusion or exclusion of visual fields from the cells counting

Object Type	ROI 1	ROI 2	ROI 3	ROI 4	Total	
	Count	%	Count	%	Count	%
Formed elements	201	100	211	100	271	100
Blasts	8	3	2	1	6	2
Granulocytes	145	51	126	50	151	56
Basophils	4	1	4	1	4	1
Eosinophils	7	3	1	0	8	3
Promyelocytes	9	3	2	1	7	3
Myelocytes	27	10	33	13	30	11
Metamyelocytes	30	11	23	9	18	7
Band neutrophils	18	6	17	7	8	4
Segmented neutrophils	36	20	47	18	77	29
Lymphocytes	26	9	43	17	32	13
Plasma cells	0	0	2	1	1	0
Atypical lymphocytes	-	-	-	-	-	-
Plasmacytoid cells	-	-	-	-	-	-
Monocytes	26	12	22	9	19	8

ROI Manager

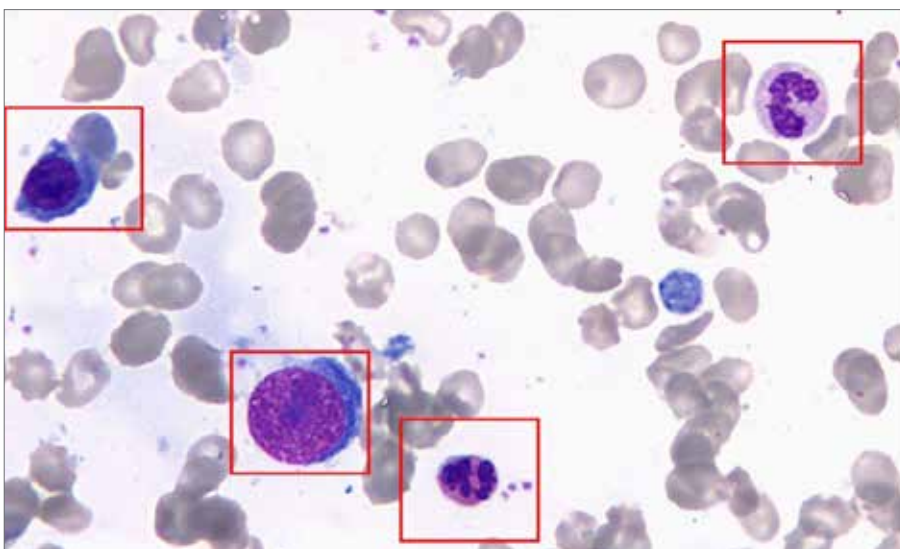
Comparison of cell counts by composition in each individual ROI



ROI¹ and megakaryocytes

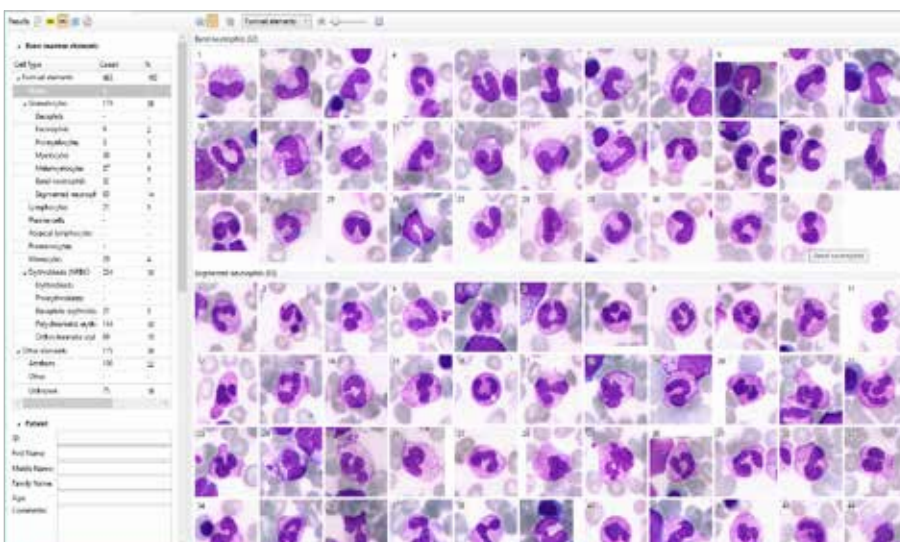
Automatic region of interest (ROI) detection and identification of megakaryocytes (MGK)

¹ ROI (Region of interest) is a region of interest with evenly distributed bone marrow cells. In these areas, cells are searched and captured at x1000 magnification.



Extended focus

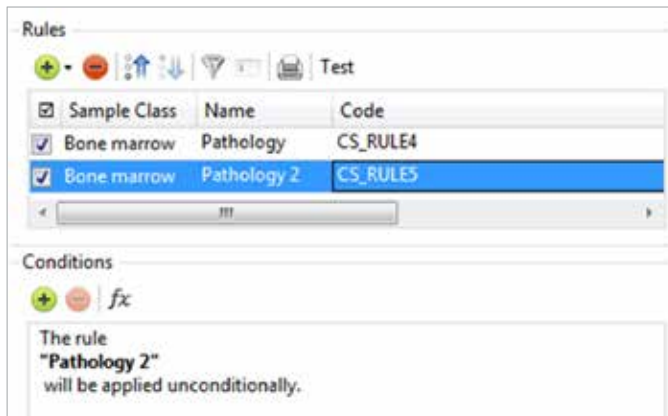
Clear image of each bone marrow cell thanks to the extended focus. Independent focus in the Z-plane on every single bone marrow cell



Bone marrow cell gallery

Displaying identified bone marrow cells as an image gallery

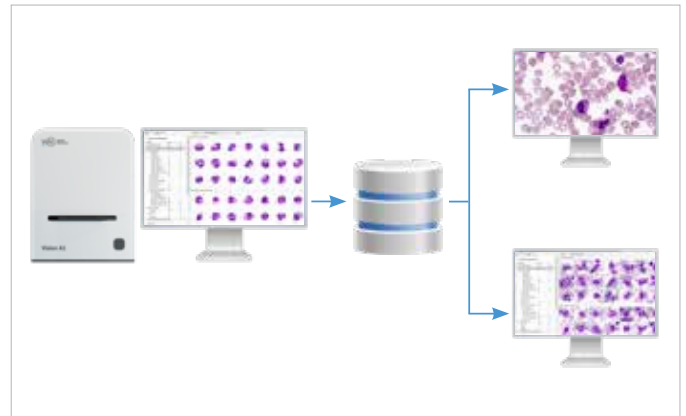
Vision Manager



www.wm-vision.com

Data processing rules for analysis procedure automation

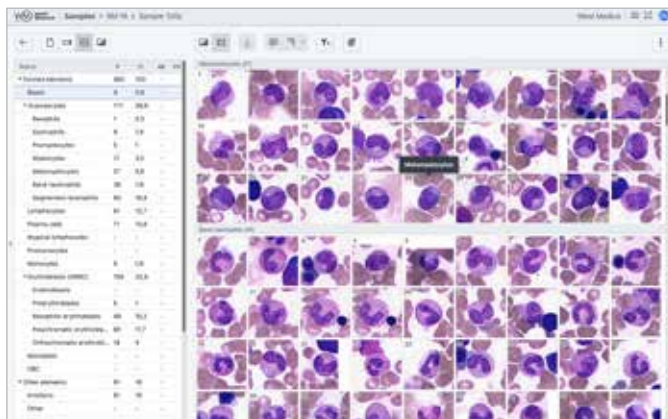
Vision Remote



www.wm-vision.com

Remote workstation

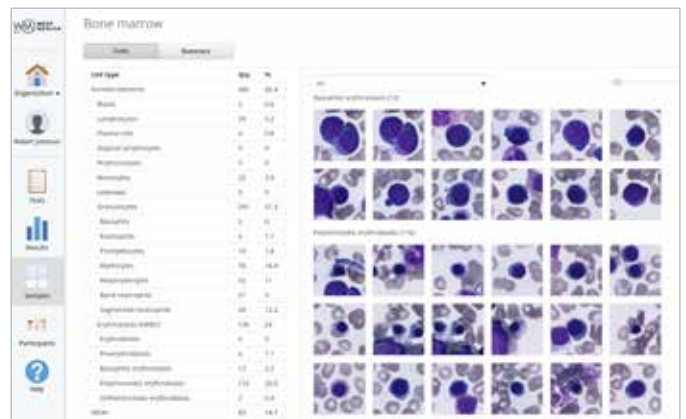
Vision Suite



www.vision-suite.com

Remote operation of Vision software via Internet browser

Vision Expertise



www.vision-expertise.com

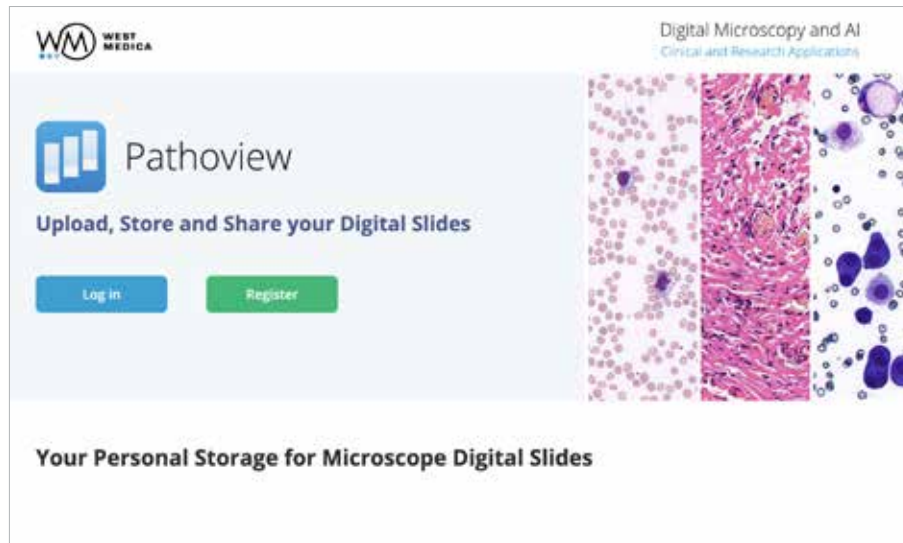
Online testing and validation of specialists' knowledge in microscopy

Artificial intelligence for digital microscopy



With artificial intelligence technologies, Vision's digital microscopy solutions optimize and standardize laboratory workflow.

Pathoview



www.pathoview.com

Working with digital slides via internet browser

Upload, view, store and share digital slides



Uploading

Upload your slides in any convenient way: via a web browser, from the Vision and Vision Slide Viewer applications, or send them using your Vision Suite organization.



Storage

Save digital slides in Pathoview, and they will always be at your fingertips wherever you are. Ensure access to digital slides from any device.



Shared access

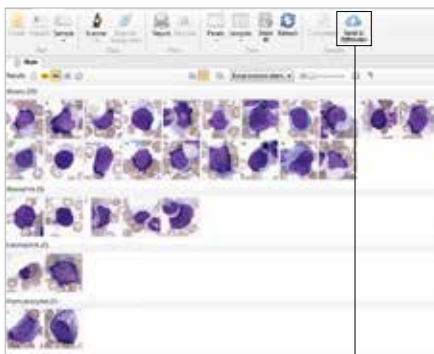
Information exchange — share and discuss clinical cases with colleagues. Quick and easy sharing of links to slides of any size.



Digital slides

Support of various digital slide formats: .mrxs, .svs, .tiff, .ndpi, .dcm.

Vision and Pathoview integration



Select a sample and click the “Share” button on the toolbar



Copy the link and send it to your colleagues for consultation



Your colleague views the digital slide on any device

Cell Imaging Analyzers

Key features	Vision Assist	Vision Pro	Vision Ultimate
Clinical modules	Vision Bone Marrow	Vision Bone Marrow	Vision Bone Marrow
Working mode	Queue (for 4 slides only)	Queue, Random access	Queue, Continuous and Random access, STAT sampling 24/7
Scanning	Automatic	Automatic	Automatic
Loading a slide	1 or 4 slides	4 or 8 slides	120 or 200 slides
Specifications	Scanning microscope Personal computer Monitor	Scanning microscope Personal computer Monitor	Scanning microscope Personal computer Monitor Control touch-monitor
Objectives	10x, 50x Oil, 100x Oil	10x, 40x/60x Oil, 100x Oil	2,5x, 10x, 50x Oil, 100x Oil
Research method	Bright field	Bright field	Bright field
Illumination	Köhler illumination, LED	Köhler illumination, LED	Köhler illumination, LED
Communications	Bidirectional connection to LIS, LIS2-A2 (ASTM), HL7	Bidirectional connection to LIS, LIS2-A2 (ASTM), HL7	Bidirectional connection to LIS, LIS2-A2 (ASTM), HL7

Pre-classification has to be validated by the specialist reviewing the galleries of cells.

Please check the intended use and the registration in your local regulation.

Depending on the regulations of the respective region, some products may be used for research purpose only.

We reserve the right to change specification without notice.



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