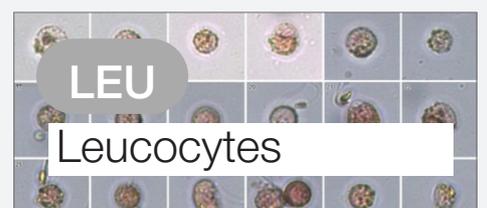


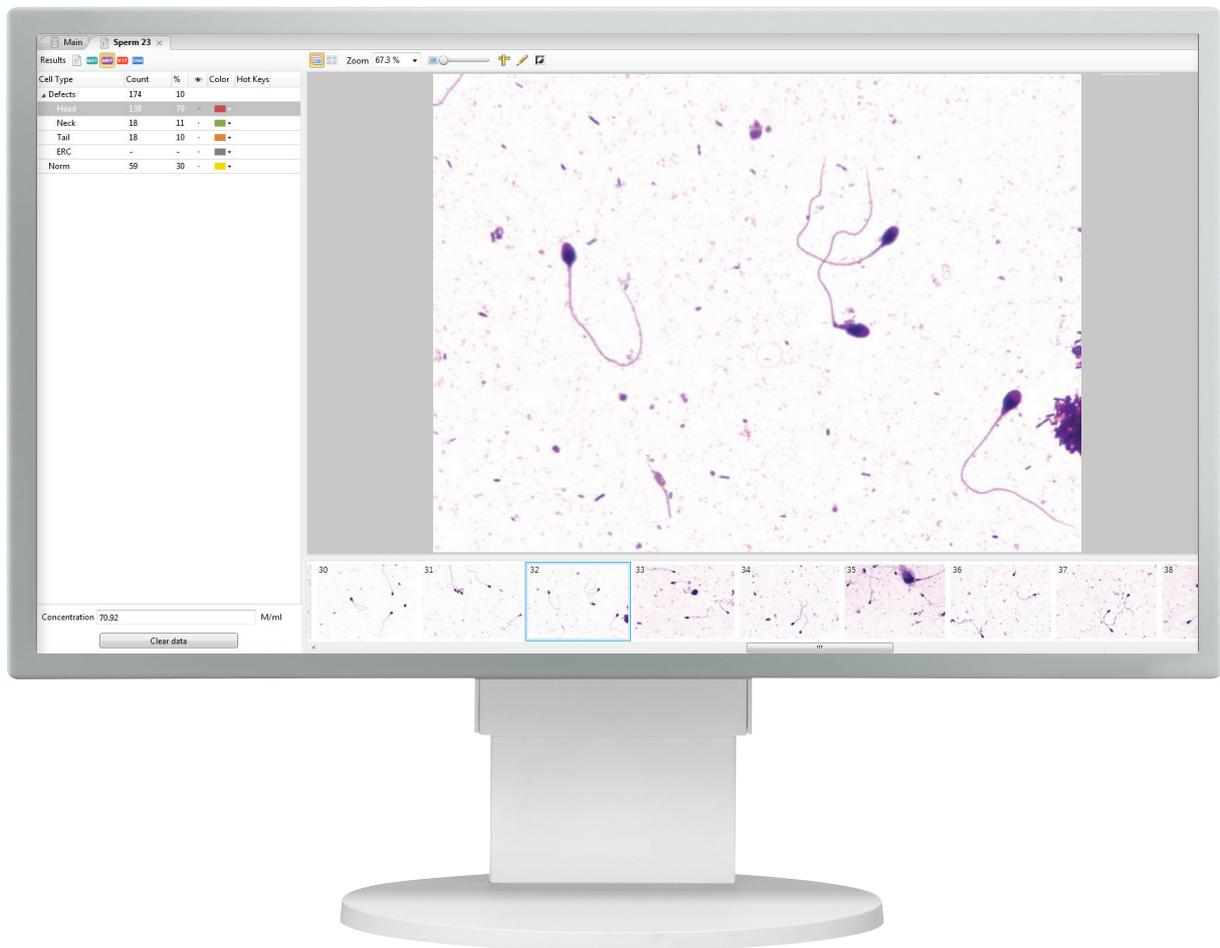
Sperm Analysis

Automatic Systems for Sperm Analysis



Vision Sperm

Automatic Systems for Sperm Analysis



Artificial intelligence



Artificial intelligence (AI) cumulates algorithms and technologies that allow computers to learn and solve intellectual tasks provided by humans.

AI speeds up processing and interpretation of data, and allows to efficiently perform the most comprehensive tasks, including medical image analysis.

Clinical applications



The latest developments of artificial intelligence provide a solution for the tasks connected with automation in digital microscopy.

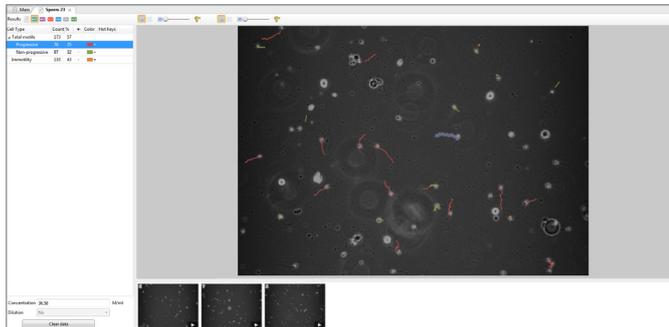
Our technologies speed up the diagnostic process, reduce analysis time and lower subjectivity of the results received.

They improve the efficiency of laboratory routine operation, bringing microscopy analyses in line with state-of-the-art standards.

Analysis of sperm parameters according to WHO requirements

MOT

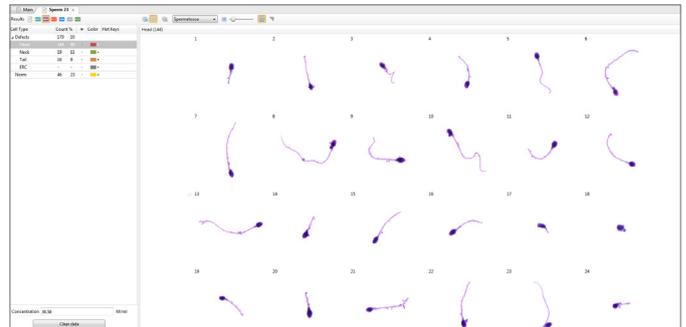
Motility / Concentration



Motility analysis and sperm concentration assessment. Motility is determined by computing the sperm cells moving path in the field of view during a set time period. Concentration is determined by calculating the total number of spermatozoa taking into account the specimen's thickness and dilution.

MRF

Morphology



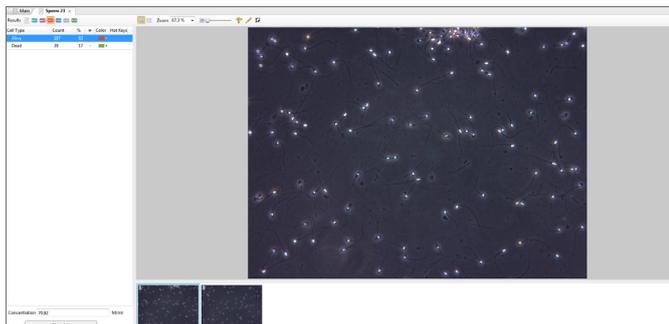
Morphology analysis of sperm, identification and pre-classification. Sperm cells are classified as "normal" and "abnormal".

Types of defects:

- Head;
- Neck;
- Tail;
- ERC.

VIT

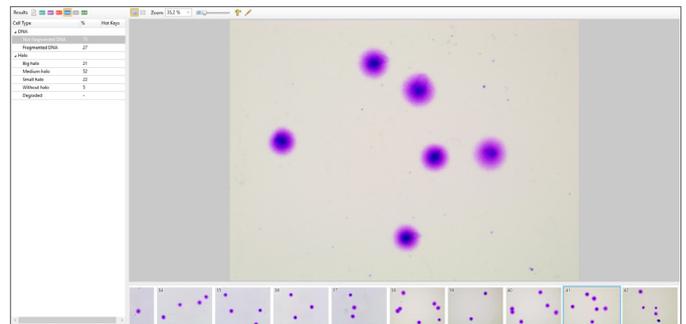
Vitality



Pre-classification of sperm vitality, calculation of live-dead ratio.

DNA

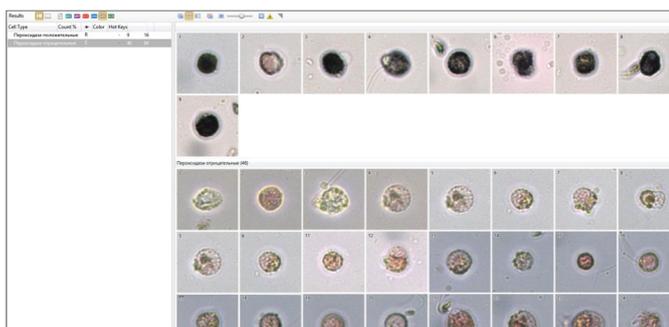
DNA fragmentation



Pre-classification by DNA fragmentation degree. Calculation of the ratio of fragmented spermatozoa to relatively healthy ones.

LEU

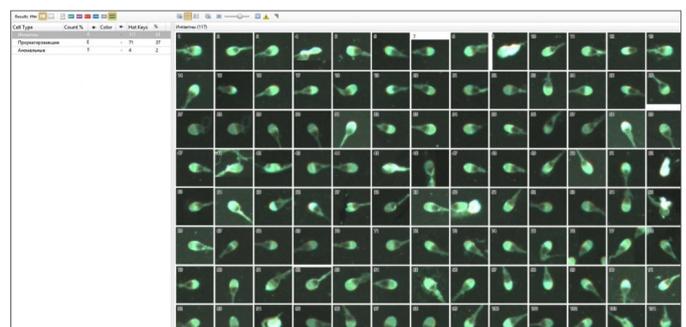
Leucocytes



Counting leucocytes in sperm

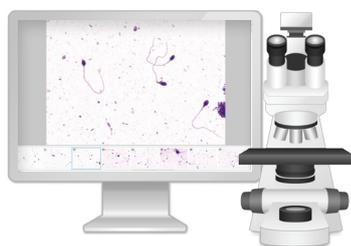
ACR

Acrosome reaction

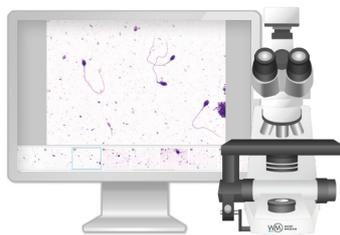


Acrosome reaction test. Only for systems with one slide.

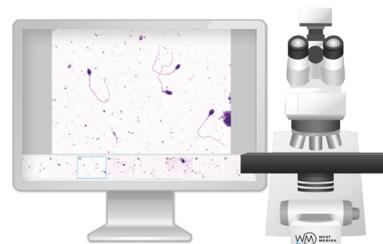
Specifications



Vision Basic
Cell Imaging Analyzer



Vision Assist
Cell Imaging Analyzer



Vision Pro
Cell Imaging Analyzer

| | | |
|--|---|--|
| Application module: Vision Sperm | Application module: Vision Sperm | Application module: Vision Sperm |
| Working modes: manual | Working modes: queue (only 4 slides version) | Working modes: queue, random access |
| Manual scanning | Automatic scanning | Automatic scanning |
| 1 slide | 1 or 4 slides | 8 slides |
| Manual slide handling | Manual slide handling | 2 cassettes with slides |
| Manual oil dispensing | Manual oil dispensing | Built-in barcode reader (optional) |
| Manual slide identification | Manual slide identification | Automatic oil dispenser (optional) |
| Microscope | Scanning Microscope | Scanning Microscope |
| Monitor | Monitor | Monitor |
| Personal computer | Personal computer | Personal computer |
| Optical system: 20x, 40x, 100x Oil | Optical system: 20x, 40x, 50x Oil, 100x Oil | Optical system: 20x, 40x, 60x Oil |
| Bright fields, phase contrast, fluorescence* | Bright fields, phase contrast, fluorescence* | Bright fields, phase contrast |
| Köhler, LED | Köhler, LED | Köhler, LED |
| Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet | Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet | Bidirectional LIS, LIS2-A2 (ASTM), HL7, Ethernet |
| Art. N.: 64030.04.006 Art. N.: 64030.04.027* | Art. N.: 71150.04.006 (1 slide) Art. N.: 71450.04.006 (4 slides) Art. N.: 71150.04.027 (1 slide)* | Art. N.: 72852.04.006 (8 slides) |

*Acrosome reaction

We reserve the right to change specification without notice.



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