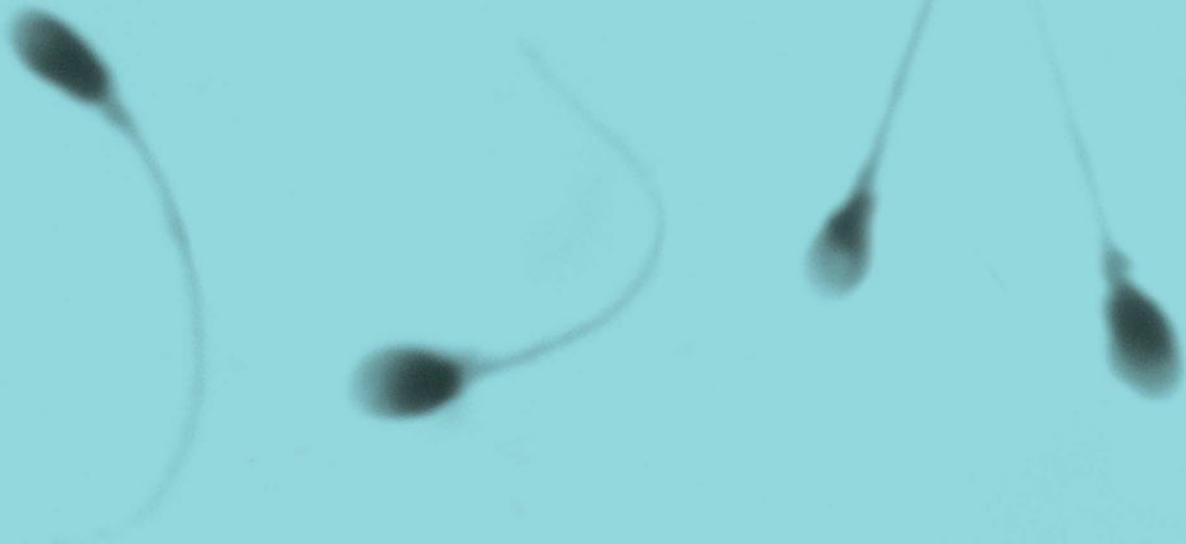




EVOLUTION

CASA SPERM CLASS ANALYZER



MICROPTIC
AUTOMATIC DIAGNOSTIC SYSTEMS

MICROPTIC, 20 YEARS SPECIALIZED IN THE SEMEN ANALYSIS



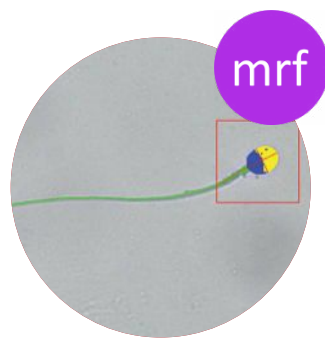
Innovator in the development of the world's most advanced CASA (Computer aided semen analysis) system. With a dynamic and highly qualified staff, we develop our products in collaboration with research centres of great impact in the sector.

SCA[®], THE MOST ADVANCED MODULAR CASA

SCA[®] is a modular automatic system for the **concentration, motility, morphology, DNA fragmentation** and **vitality** analysis of the semen samples, following WHO criteria or other defined by the user.



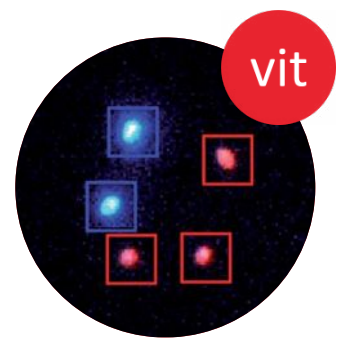
MOTILITY AND CONCENTRATION



MORPHOLOGY



DNA FRAGMENTATION



VITALITY

OBJECTIVE AND RAPID ANALYSIS

RELIABLE AND DEMONSTRABLE DIAGNOSTIC

Several scientific papers have dealt with the unreliable diagnostic in conventional analysis¹, in contrast to the homogeneous data obtained with CASA².

IMPROVE THE QUALITY OF THE SEMEN ANALYSIS

SCA[®] will help to implement the objective analysis, diagnostic reports and quality controls in your laboratory because it contains all the information needed for the norm ISO 15189:2013 compliance.

STANDARDIZATION AND TRACEABILITY

The SCA[®] improves the laboratory competitiveness, allowing the analysis standardization and results recording. It minimizes the risk of error, due to human factor, in the sperm analysis.

WIDELY VALIDATED

Several studies have shown that the SCA[®] provides reliable, linear and accurate results with less variability than manual methods, giving higher predictive value in diagnosing of the fertility problems³.

¹[Mukhopadhyay D, Varghese AC, Nandi P, Banerjee SK, Bhattacharyya AK. Andrologia, 2010]

²[Maree L., du Plessis S.S., Menkveld R., van der Horst G, Human Reproduction 2010]

³[Dearing C G , Kilburn S , Lindsay K. S. , Human Fertility, 2013]

ADAPTATION AND FLEXIBILITY



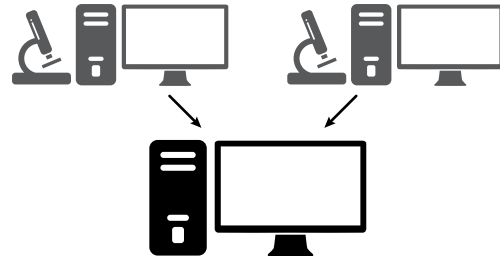
We have multiple SCA[®] configurations in order to find the optimum for your laboratory.

Following some examples of the available options:

STANDARD ANDROLOGY LABORATORY



MULTI-SITE FACILITIES (WITH A MAIN SYSTEM AND ADDITIONAL CAPTURE SYSTEMS)



RESEARCH CENTRES



BUSY LABORATORIES: FULLY AUTOMATIC SYSTEM WITH MOTORIZED STAGE.



ADVANCED ANALYSIS

SCA ® offers innovations in automatic analysis such as: **intelligent filter** for sperm detection; **fluorescence** analysis in concentration and motility and **DNA fragmentation**; very low concentration samples analysis; and **vacuoles and tails** detection in **morphology**.

INTERNAL AND EXTERNAL QUALITY CONTROLS

Our greatest aspiration is been able to offer a guarantee in the results provided and give confidence in the diagnostic. With that aim, the SCA ® has a service of internal and external quality control to validate the results obtained and the equipment reliability.

CUSTOMIZED REPORTS SERVICE

Microptic has a complete service of personalized reports available for customers.

LABORATORY INFORMATION SYSTEM (LIS) CONNECTIVITY

SCA ® is ready to connect with any existing database in your centre.

AUTOMATION

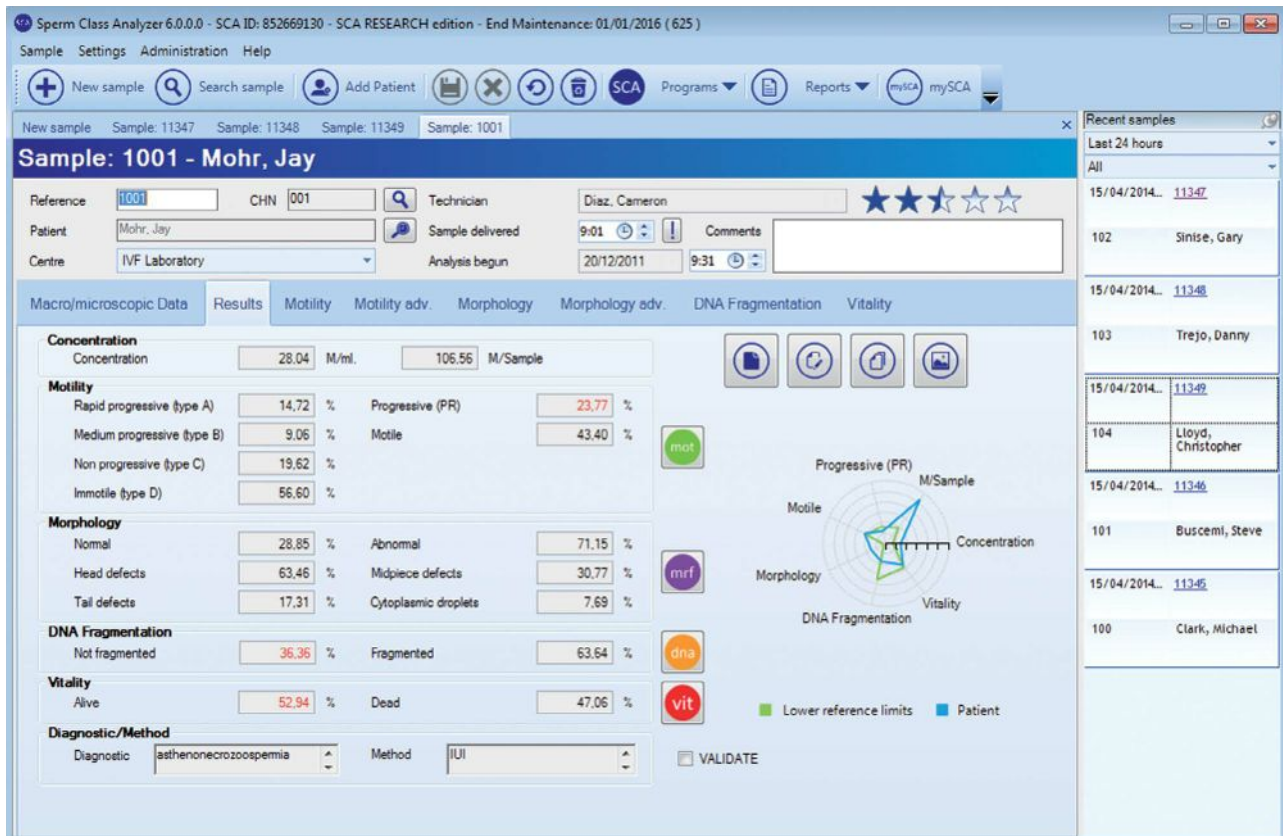
With motorized stage, the analysis process is fully automatic enabling the examination of 4 slides or counting chambers consecutively, without the presence of the technologist.

MULTI LANGUAGE

Nowadays, our system is accessible in 16 languages. If your language is not among those selected, we have a translation service to any language.

INNOVATIONS OF THE SCA® EVOLUTION

Since it was launched in 1997, the SCA® sperm analyzer has been in continuous development, improving in each version the analysis algorithms, and including the latest state-of-the-art technology and ultimate research findings. Find here some of the last innovations:



NEW INTERFACE

The design of the new application is fully customizable, making it user-friendly.

RESULTS VALIDATION

A specialist can validate all the assessments, automatically send the results to the central database (e.g.: HL7), and print the custom reports.

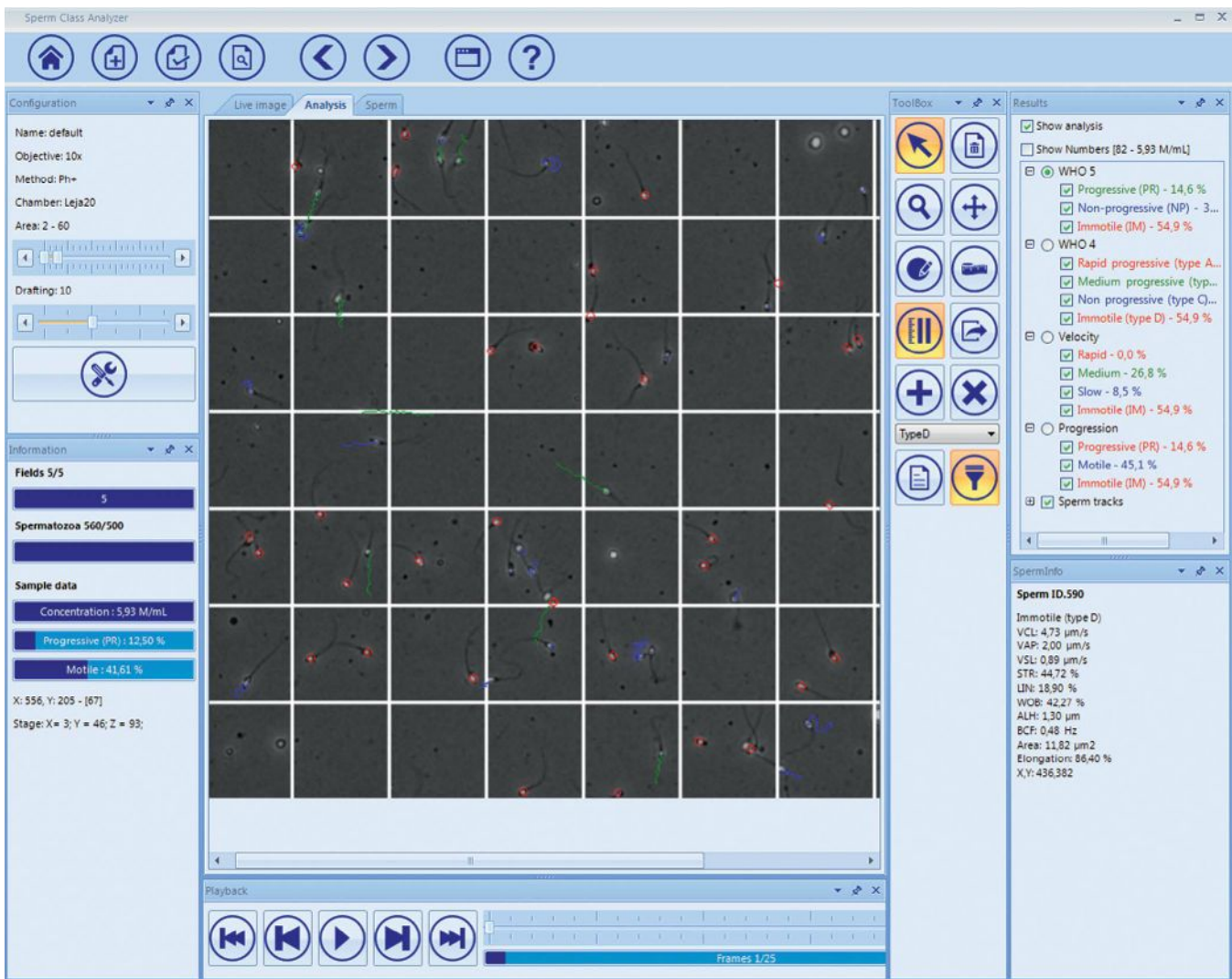
IMAGES AND GRAPHICS

New graphics to enhance the visualization of the results and comparison of the fields captured. It allows the user to select the image that appears in the report.

DIAGNOSTIC AND TREATMENT

Automatically provides a diagnosis of the analysis, it rates the sample quality and recommends the best assisted reproduction treatment to follow.

THE KEY TO SUCCESS: ALWAYS BE ONE STEP AHEAD



ADAPTED TO THE NEW TECHNOLOGIES

The visualization in several screens improves the rapidity and analysis efficacy. It works with multi-touch screen, multi-screen, leap motion¹ and portable devices. The motorized stage can be directly controlled by touching the screen or by the hands movement.

CUSTOMIZABLE DINAMIC TABLES

It enables to synthesize all the database results into subgroups and create custom statistics.

INTERACTIVE TOOLS

It allows the measurement of distances, areas and perimeters, besides modifying the analysis configuration in real time, displaying automatically the changes in the analyzed image.

INTERNAL QUALITY CONTROL

User-friendly internal quality control by Levy-Jennings detailed report.

¹www.leapmotion.com

SCA® MODULES:

AUTOMATIC ANALYSIS MODULES	
SCA® Motility and concentration	Analysis of the motility, concentration and kinematic parameters
SCA® Morphology	Analysis of the morphology and morphometry in stained sperm samples
SCA® DNA Fragmentation	Analysis of the DNA fragmentation with the chromatine dispersion test
SCA® Vitality	Analysis of the vitality under fluorescence
ADDITIONAL MODULES	
SCA® Sample Management	Management of the database and reports generator
SCA® DataShare	It enables the internal SCA® database sharing and the connection with any LIS system
SCA® Stage Controller	Fully automation using motorized stage
SCA® Manual Counter	Manual counter of any biological sample
COMPLEMENTARY SYSTEMS (To be used in combination with a main analysis system)	
SCA® Capture	Unitary module for image capture
SCA® Editor	Module for analysis modification
SCA® Viewer	Free software for image visualization

MINIMUM REQUIREMENTS:

	SCA Motility and Concentration	SCA Morphology	SCA DNA Fragmentation	SCA Vitality
COMPUTER	Desktop or laptop: Operating system Windows 7 or 8 (32 or 64 bits), Processor: Intel i3 or higher, RAM: 2GB or higher, DVD-ROM, Gigabit Ethernet or PCIE Port			
CAMERA	Basler Ace acA780-75gc or Basler Aviator avA1000-100gc			
MICROSCOPE	Nikon, Olympus, Zeiss or Leica, C-mount 1x, trinocular tube 1x, turret condenser and centering telescope			
OBJETIVE	10x	100x oil immersion /60x	20x	20x
OBSERVATION METHOD	Positive Phase contrast or fluorescence	Brightfield	Brightfield or fluorescence	Fluorescence
FILTERS	Green filter / Fluorescence: Bandpass filter (EX 330-380, EM420, DM 400)	Blue filter	Green filter / Fluorescence: Bandpass filter (EX 510-560, EM 590, DM 565)	Bandpass filter (EX 330-380, EM 420, DM 400)



DISTRIBUTOR:



MICROPTIC
AUTOMATIC DIAGNOSTIC SYSTEMS



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