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VX-SpermMax

Fully Automated CASA System for Semen Analysis

Compliant with WHO 6th Edition and ISO 23162

VX-SpermMax Fully Automated CASA System

Bringing confidence and true standardization to modern fertility labs

CORE WHO 6TH EDITION COMPLIANCE

Reliable Motility

Feature: Built-in heating stage, adjustable from 35–40˚C.
Advantage: Maintains a constant 37˚C to strictly comply with WHO mandates, preventing motility decrease caused by ambient lab temperatures and enabling highly accurate kinematic measurements.



Integrated heating stage

Precise Concentration

Feature: Utilizes 10-µm fixed-depth, dual-chamber microfluidic slides.
Advantage: Eliminates Z-axis depth errors from non-fixed slides. Forces the sample into a uniform monolayer to prevent cell overlap, ensuring highly reproducible total sperm counts.



10-µm, 2-chamber, counting slide

Advanced Morphology

Feature: Proprietary optical microscope with an independent imaging sensor and motorized focusing system.
Advantage: High-resolution microscopy enables strict, objective evaluations, instantly delivering detailed and accurate sperm morphology parameters.

Multi-Field Validation

Feature: Multi-field analysis (2–6 fields) evaluates up to 1,000 sperm per field.
Advantage: Effortlessly meets the WHO requirement of counting 200 spermatozoa in replicate, minimizing statistical sampling errors and increasing overall diagnostic confidence.

Streamlined Clinical Workflow

- **Quality Control**: Includes reusable QC controls (High, Medium, Low, and Blank) and allows physicians to establish custom QC parameters to meet their specific laboratory requirements.
- **Smart User Interface**: Features a 7-inch touchscreen and bidirectional PC control for maximum ease of use and seamless operation.
- **Rapid Turnaround Time**: Delivers comprehensive results—including detailed morphology—in as little as 20 seconds (depending on sample conditions and selected fields of view).
- **Integrated Data Management**: Streamlines your workflow with barcode scanning, image capture, video playback, editable PDF reports, and a specialized PC CASA workstation.

Analysis Parameters

Concentration and Motility

- Total sperm count
- Immotile
- Motile
- Progressive
- Rapid-progressive
- Slow-progressive
- Non-progressive
- Round cells (non-sperm)

Morphology

- Normal
- Abnormal
- Head defects
- Midpiece defects
- Tail defects
- Cytoplasmic residue
- Teratozoospermia index (TZI)
- Sperm Deformity Index (SDI)

Kinematic

- VSL
- VCL
- VAP
- DCL
- DSL
- DAP
- ALH
- BCF
- LIN
- STR
- MAD
- WOB





System Features

Product Type	Fully Automated Sperm Quality Analyzer
Model Name	VX-SpermMax
Compliance Standards	WHO 6th Edition, ISO 23162
Heating Stage	Built-in, 35-40℃ adjustable
Display	7-inch high-sensitivity touchscreen
Counting Chamber	Dual-chamber, 10-μm depth, 5 μL sample volume
Fields of View	2 - 6 per slide, adjustable
Quality Control	4 levels; supports customizable QC standards
Report	PDF and Excel, customizable
Weight	4.5 kg
Dimensions	207 × 283 × 244 mm
Power Supply	100–240 V ~ 50/60 Hz
Connectivity	External mouse and keyboard to the system, barcode scanner, PC workstation, USB, LAN, LIS

ADVANCE REPRODUCTIVE SCIENCE

VX-SpermMax Medical is a pioneering medical technology company dedicated to advancing reproductive diagnostics through cutting-edge automation and artificial intelligence. Since developing China's first fully automated CASA system in 2017, we have remained at the forefront of industry innovation by integrating microfluidics, point-of-care testing
(POCT), and intelligent imaging.

Our flagship product, the VX-SpermMax addresses a critical need in the automated semen analysis market. **It is equipped with an integrated heating stage, high-performance fixed-depth counting chambers, multi-field analysis capabilities, and customizable quality control (QC). Engineered in strict compliance with WHO guidelines, it delivers an exceptional balance of cost-efficiency, precision, and reliability, making it truly outstanding in its class.**

Today, our fully automated solutions empower clinicians worldwide to perform comprehensive fertility assessments, ensuring faster, more accurate, and highly reproducible diagnostic results.





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