

iSpermMedical



iSperm Nexus-DX1

Fully Automated CASA System for Semen Analysis
Compliant with WHO 6th Edition and ISO 23162

iSperm Nexus-DX1 Fully Automatic CASA System

Strictly compliant with WHO 6th Edition standards, and delivers fast, accurate, and highly reproducible results. It brings true standardization to the lab by automating workflows and eliminating operator errors.

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.

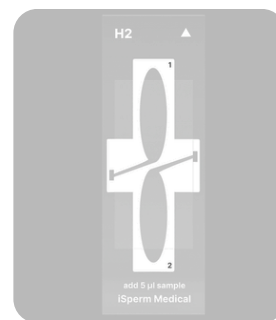


Integrated Heating Stage

Precise Concentration

Feature: Utilizes highly cost-effective 10 μm fixed-depth, dual-chamber 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 Counting Chamber

Advanced Morphology

Feature: Proprietary optical microscope with an independent imaging sensor and focus motor.

Advantage: High-resolution microscopy enables strict, objective evaluations, instantly delivering detailed and accurate sperm morphology parameters

Multi-Field Validation

Feature: 2–6 Multi-Field Scanning, analyzes up to 1,000 sperm per field to overcome natural sperm clustering.

Advantage: Easily reaches the WHO mandate of 400 counted spermatozoa, eliminating statistical sampling errors and increases overall reliability.

Streamlined Clinical Workflow

- **Intuitive System Control:** 7-inch touchscreen and bidirectional control of the system via PC for optimal user-friendliness.
- **Rapid Turnaround Time:** Comprehensive results with detailed morphology in just 0.5–2 minutes (depending on sample conditions and selected fields of view).
- **Integrated Data Management:** Barcode scanning, image capture, video replay, editable PDF report 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 | • ALH |
| • VCL | • BCF |
| • VAP | • LIN |
| • DCL | • STR |
| • DSL | • MAD |
| • DAP | • WOB |



System Features

Product Type	Fully Automated Sperm Quality Analyzer
Model Name	iSperm Nexus-DX1
Compliance Standards	WHO 6th Edition, ISO 23162
Heating Stage	Built-in, 35-40°C adjustable
Display	7-inch high-sensitivity touchscreen
Counting Chamber	10 µm fixed depth, dual-chamber
Fields of View	2 - 6, Adjustable
Weight	4.5 kg
Dimensions	207 × 283 × 244 mm
Report	PDF and Excel, customizable
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

iSperm Medical is a pioneering medical technology company dedicated to advancing reproductive diagnostics through cutting-edge automation and AI.

Since developing China's first fully automated CASA system in 2017, we have led innovation by integrating microfluidics, point-of-care testing, and intelligent imaging.

Our flagship product, the iSperm Nexus-DX1, fills a crucial gap in the automated semen analysis market. Designed in strict accordance with WHO guidelines, it delivers an unmatched balance of price, performance, and reliability. Today, our fully automated solutions empower clinicians worldwide to conduct comprehensive fertility assessments, ensuring faster, more accurate, and highly reproducible results.



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