

## SW-3703 Sperm Quality Analyzer



### 1.Apparatus Introduction

It is a high-tech intelligent product with the latest computer image processing analysis technology and advanced artificial intelligence technology used in modern reproductive medicine. It has automatic identification and automatic tracking sperm trajectory functions, which make it able to quickly and automatically complete multi parameters analysis accord with international standards WHO. It realizes the comprehensive quantitative analysis of sperm activity and static characteristics and applies to clinical semen test so as to provide an important scientific basis for inspection of male fertility.

### 2.Apparatus Features

- 1).Humanity design,superior performance and high safety.
- 2).It can filter out various impurities different from sperm to ensure the accuracy of examination.
- 3).No damage examination sample, not only ensure sperm natural movement state but also the monolayer sampling.

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- 4).Store all the data、 dynamic and static images of patients' sperm examination in digital way; For patients with all the data sperm check and dynamic and static images stored in digital way; It can undertake various query, modify, statistics and print inspection report; And it is ready for networking all the time for resources sharing
- 5).Advanced morphology analysis software, clear color locus diagram
- 6).It can be connected with the PACS to store and transfer the data,shrning the patients record sources.

### 3.Examination Items

- 1).Sperm density, Sperm activity rate, Sperm trajectory, Sperm motility distribution
- 2).Average curvilinear motion speed total sperm of curvilinear motion Total motile sperm of curve motion Motility rate of curvilinear motion;
- 3).Average linear movement speed total sperm of linear motion Total motile sperm of linear motion Motility rate of linear motion;
- 4).Average path speed total sperm of average path Total sperm of mean motion Mean motion sperm motility rate;
- 5).Sperm movement speed classification: grade a rapid forward motility rate , grade b slow forward motility rate, grade c non-forward movement rate, grade d extremely slow or immobility rate;
- 6).Sperm side swing value of sperm swing Sperm whipped frequency Linear motion rate Total sperm;
- 7).Linear speed Sperm average moving angle linear motion sperm

### 4.Technical Parameters

- 1) Maximum of the tested sperms: 1000
- 2) Range of test speed: 0-180μm/s
- 3) Number of image collection: unlimited(frame)
- 4) Grain diameter resolution( μ m): adjustable
- 5) Analysis time: 1-5 seconds or longer
- 6) Group number of collected images: unlimited
- 7) Microscope objective lens: 10x.20x.25x.40x
- 8) Displayed content of sperm test system is no less than: 1) distribution curve of static sperms, 2) the features data of semen and statistical data from analysis of all the main functions, 3) sperm dynamic trajectory curve, 4) display various sperms motion speed and energy is arrhythmic map of sperms, 5) case information for management such as patients' name;
- 9) Output content from sperms test system is no less than: 1) the main technical data of sperms, 2) sperm dynamic trajectory curve, 3) analysis and determinant histogram 4) case information for management such as patients' name

### 5.Functions and configuration of sperm quality analysis system

Function Configuration Type	Biological microscope	Sperm collector	Software system	Computer	Printer	Camera	Monitor
3702	Domestic	—	Professional software	✓	✓	✓	✓
3703	Imported	—	Professional software	✓	✓	✓	✓
3704	Imported	✓	Professional software	✓	✓	✓	✓



## 6. Standard Configuration

Main Unit;  
Computer;  
LCD Monitor;  
Printer;  
Microscope;  
English Analyzer software

## 7. Packing details

Packing size: 86\*64\*68  
Gross weight: 86KG

## 8. Others

Warranty: 18 months  
Payment term: T/T in advance  
Delivery period: 3-5 day after payment

## 9. Contact

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