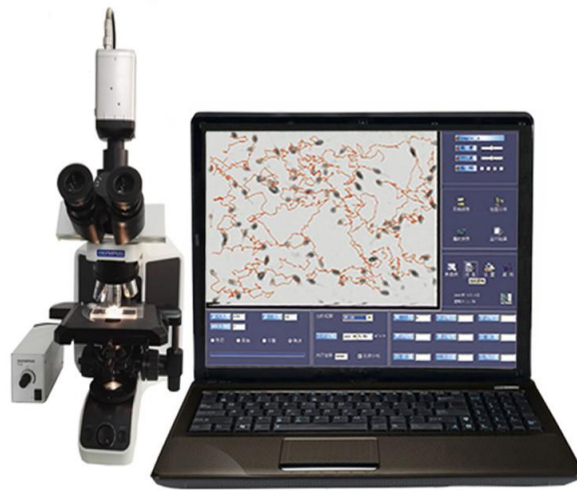


Sperm Quality Analyzer



Technical parameters:

- 1) the number of pieces of image acquisition 1-100 pieces.
- 2) the field of view of each of the collection analysis time 1-10 seconds.

- 3) range detection rate of 0-240 μ m / s.
- 4) the field of the selected field 1-30.
- 5) the measured maximum number of sperm per 1000 , error \pm 2%.
- 6) sperm density detection range of 0-300 million / ml without dilution.
- 7) for a microscope objective magnification 10X.20X.40X.100X.
- 8) sperm detection system display.

- a, sperm static distribution.
- b, sperm dynamics trajectories.
- c, semen characteristics and various data. the main performance analysis of statistical data.
- d, display a variety of sperm velocity and dynamic histogram classification figure.
- e, name of patient information , such as case management.

- 9) the printout contents sperm detection system.
 - a, the sperm of the main technical data.
 - b, sperm dynamics trajectories.
 - c, analysis, judgment histogram.
 - d, name of patient information , such as case management.

- 10) according to WHO standard test data using sperm count plate (thickness 10 μ m).
- 11) can detect the movement of sperm 26 indicators , and can track the trajectory of sperm are described,color trajectory (red , blue two tracking trajectories).
- 12) can be analyzed sperm motility overlay.
- 13) can be dynamically learn sperm statistical analysis and medical records , analysis of dynamic parameters with a, b, c, d level analysis.
- 14) can be carried out statistical analysis of sperm morphology and medical records , with the virtual grid power energy, preparing the fourth edition of WHO morphology software reference the latest standards , sperm deformity rate can be calculated.

And conduct deformity classification. Morphological analysis with a total of 26 parameters as follows :

Analysis of the target number, Morphologically normal sperm count, abnormal sperm morphology , the bulk of sperm count, sperm head count, hammer shaped sperm count , sperm count pear-shaped, amorphous sperm count, sperm count vacuolar head, headed sperm the number of defects in the neck and middle sperm count, sperm tail defects, other abnormal sperm count, sperm sub- cells, white blood cells, round cells, analyzing sperm count, sperm normal average non-average normal sperm head length (um), the head width (um), the length / width ratio (%) , head area (um²), head circumference (um), acrosome ratio (%).

- 15) microscopic observation , image acquisition and data analysis : can detect sperm density , vitality and significantly
Static maps showing the sperm , the sperm dynamic trajectories , etc., and the major data sperm analysis.
- 16) according to WHO standards using sperm count plate (thickness 10 μ m), test data accurately .

17) morphology software : its preparation of the fourth edition of the latest WHO reference standard , computable sperm deformity Malformation rate and be classified , can detect 26 targets.

18) only recognized by WHO clinical world's most advanced U.S. IVOS-CASA system related Verification .

Features:

Real-time dynamic display, digital capture, dynamic movie playback, RGB24bits true color.

Visualization of real-time image processing functions: pseudo-color, scaling, mirroring, interception.

Provide accurate measurements annotation: perimeter, area, histogram.

Wealth of diagnostic information database, providing powerful expert diagnosis thesaurus and pictures.

Professional case management system: query, statistics, delete, backup.

Professional full-screen display, diagnosis is more clear, accurate, intuitive, easy multiplayer consultation, teaching.

Support network transmission function can be set up PACS systems.

Read DICOM image format files.

Standard configuration:

Mainframe computer with 19 inch display 1set

Sperm counting chamber 1pc

English software 1set

Sperm special microscope 1set

≥ 600TVL CCD camera 1set

Medical cart 1set

English user manual 1pc.

Optional:

Temperature controller

HP inkjet color printer

Laser color printer

Olympus microscope

Ruby sperm counting chamber.

Report:



Institution

Semen And Sperm Quality Analyze Report

Number: 0000000001

Time: 2017-03-08 13:08

Name:	Age:	SampleDate: 2017-03-08	Dept.:
MedRecNo.:	AdmitNo.:	Dept.No.:	BedNo.:
Volume(ml):	Dilution: 1:1	Smell:	pH:
DaysOfRest:	FluidTime(min):		Fluid:
Viscosity:	Appearance:		Collection:
TotalDetected:		PR progressive (motility):	
Concentration(10^6 /ml):		NP non-progressive (motility):	
TotalOfMotileSperm:		IM immotility:	
PercentOfMotileSperm(%):		(Base on WHO5 new edition)	
VAP(AveragePathVelocity)(um/s):		PercentOfLineMoving(%):	
VCL(CurvilinearVelocity)(um/s):		LIN(Linearity):	
VSL(StraightlineVelocity)(um/s):		STR(Straightness):	
ALH(AmplitudeOfLateralHead)(um):		WOB(wobble):	
BCF(BeatCrossFrequency)(Hz):		MAD(MeanMoveAngleDegree):	
TotalInSample:	$\times 10^6$ Normal:	Anomaly:	RateOfAnomaly(%):
AnomalyOfHead:	AnomalyOfBody:	AnomalyOfTail:	RBC:
MixedAnomaly:	Epithelium:	Spermatoocyte:	WBC:

VCL Distribution

VSL Distribution

VAP Distribution

MotilityDistribution

SpermMotileTracks

(Reference)

Colour:Gray/LightYellow,Volume \geq 1.5ml,Normal% \geq 4%,pH \geq 7.2,FluidTime \leq 60min,Temperature:35 \pm 1 $^{\circ}$ C
PR+NP(Total) \geq 40%,PR \geq 32%,MotileRatio \geq 58%,Density \geq 15 $\times 10^6$ /ml,TotalInSample \geq 39 $\times 10^6$ /Ejaculat

Company

Applicant:

Doctor: