

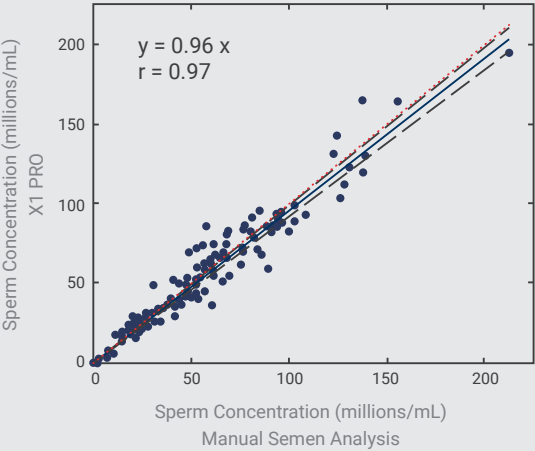
Clinic Report

Manual Method V.S LensHooke™ Semen Quality Analyzer



Concentration

Correlation analysis (Pearson's correlation coefficient)

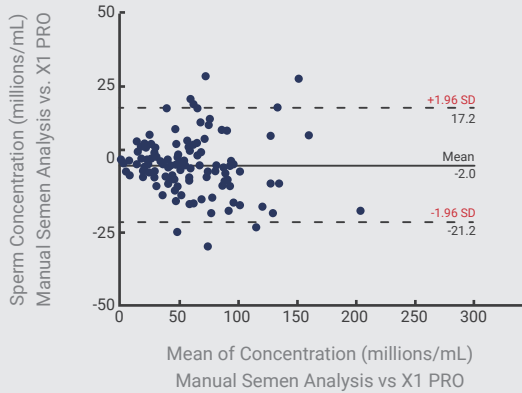


Comparison of sperm concentration correlation results between LensHooke™ Analyzer and a manual microscope method. The solid blue line represents the regression line, the red dashed line represents the diagonal line, and the black dashed line represents a confidence band (n=135).



Concentration

Deviation analysis (Bland-Altman analysis)

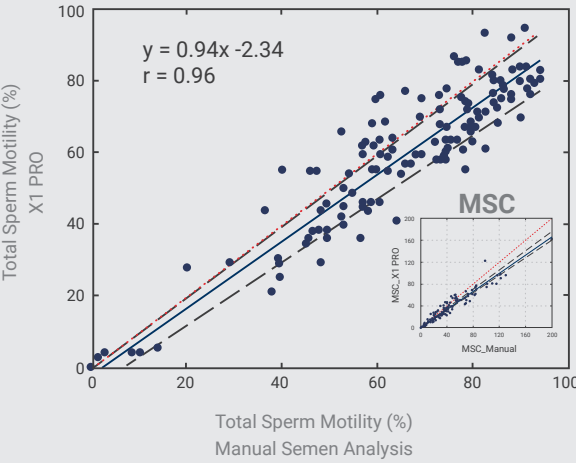


Bland-Altman analysis of the concentration deviation results between LensHooke™ Analyzer and a visual manual microscope method. The solid black line is the mean difference in the method and the black dashed lines are the 95% confidence ranges.



Motility (TM, Total Motility)

Correlation analysis (Pearson's correlation coefficient)

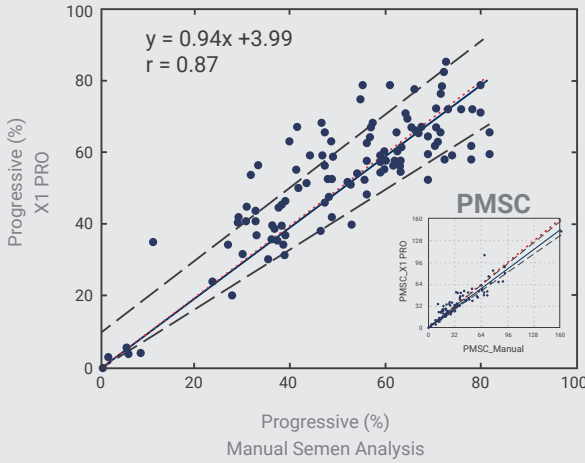


Comparison of total motility results between LensHooke™ Analyzer and a manual microscope method (n=135). As shown below, the correlation of motile sperm concentration (MSC) r = 0.97.



Motility (PR, Progressive Motility)

Correlation analysis (Pearson's correlation coefficient)



Comparison of progressive motility results between LensHooke™ Analyzer and a manual microscope method (n=100). As shown below, the correlation of progressive motile sperm concentration (PMSC) r = 0.94.

Source

- Plan No. : CS17027 | Source : Chung Shan Medical University Hospital
- Plan No. : CS17027 | Source : Lin Shin Hospital
- Plan No. : CS17027 | Source : Lee Women's Hospital
- Plan No. : MSIRB2017019 | Source : Min-Sheng General Hospital

Product Specification

[LensHooke™ X1 PRO Semen Quality Analyzer]

Control Panel	3.5-in resistive touch screen
External Power Input	AC 100-240V / 50~60 Hz; Output DC 5V/2A
Battery Durability	2500 mA (embedded re-chargeable lithium polymer battery, DC3.7V/2.5Ah)
Internal Storage Capacity	30 records including data and images
Detection Time	2~5 minutes (Depends on the sample condition)
Power Adaptor	Input: 100~240 Vac, 50~60 Hz, 0.5 A; Output: 5 Vdc, 2 A Max



[LensHooke™ Semen Test Cassette]

pH	pH 6.0~8.0 (Each Scale Range: 0.2)
Concentration	< 0.1~300 (10 ⁶ /ml)
Motility (PR+NP,Total)	< 1~100%
Normal Morphology	< 1~100%
License Dongle	1 GB

ver.1910
www.lenshooke.com



LensHooke™



Semen
Quality Analyzer
X1 PRO

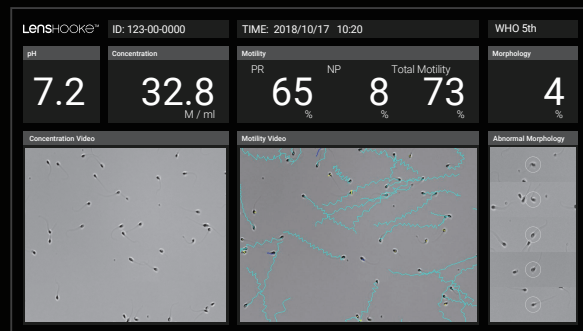
The smallest CASA in the world!

Auto Focus & Full HD	CASA Report	LAN Connection	Quality Control	Barcode Scanning



Auto Focus & Full HD

LensHooke™ X1 PRO is capable of taking 1080P Full HD dynamic images to enable immediate sperm morphology examination by medical personnel.



4 Key Data for Diagnosis



pH value



Concentration



Morphology



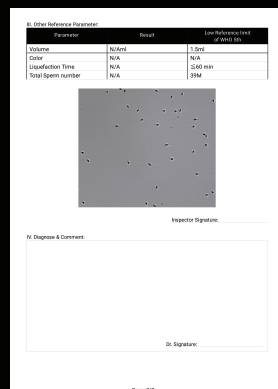
Motility
(NP, PR, Total Motility)



CASA Report

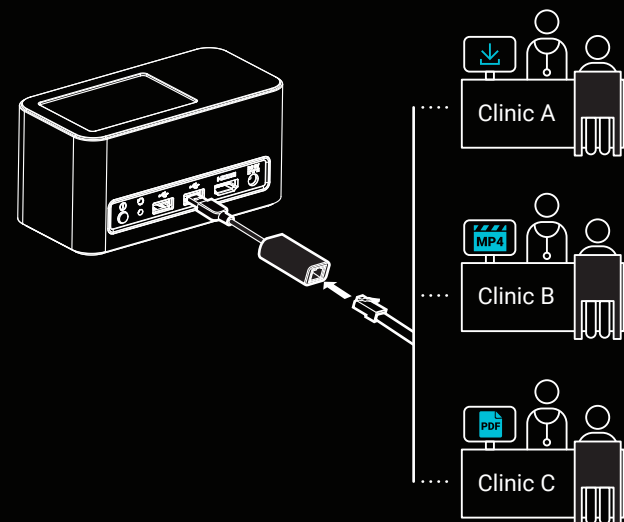
LensHooke™ X1 PRO offers more parameters from CASA assessment to further evaluate the sperm motility. (MSC, PMSC, VAP, VSL, VCL, LIN, STR, WOB, ALH, and BCF)

Patient ID: 123456789		System Version: V1.0.0.0	
Test Time: 2018/10/17 10:20		Device Name: LSHX1PRO	
Parameter		Result	
pH		7.2	
Concentration		32.8 M/ml	
Normal Morphology		4%	
Total Motility		73% (45% PMSC, 28% VAP)	
Progressive (PR)		65%	
Non-Progressive (NP)		8%	
Note:		● MSC: Motile Sperm Concentration	
● PMSC: Progressive Motile Sperm Concentration			
● VAP: Velocity of Progressive Sperm			
● VSL: Velocity of Slow Sperm			
● VCL: Velocity of Curved Sperm			
● LIN: Linearity			
● STR: Sperm Tail Ratio			
● WOB: Wobble			
● ALH: Amplitude of Head Lateral Head			
● BCF: Beat Cross Frequency			



LAN Connection

LensHooke™ X1 PRO LAN solutions can allow other computers/laptops to connect with the analyzer to preview or download the files and videos.



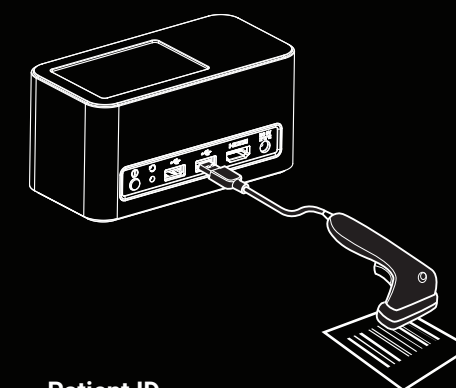
Quality Control

By using with LensHooke™ X QC Beads, LensHooke™ X1 PRO can do the Quality Control test in 3 different concentration levels.

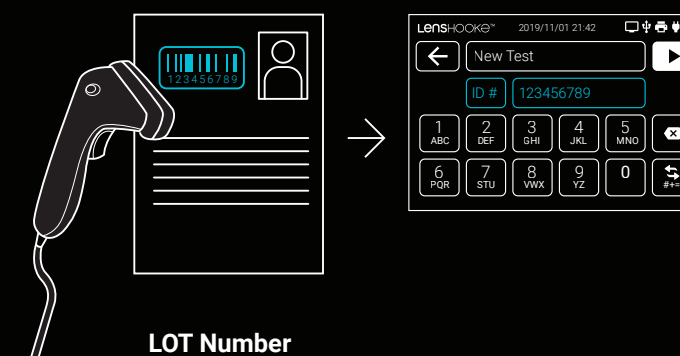


Barcode Scanning

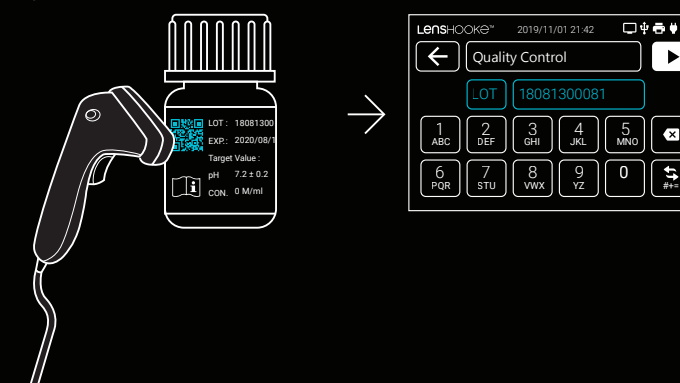
LensHooke™ X1 PRO is able to connect with the barcode scanner by USB port to scan the patient's ID or product lot number.



Patient ID



LOT Number



Only 3 Steps

and 2~5 minutes to get all of the test results!