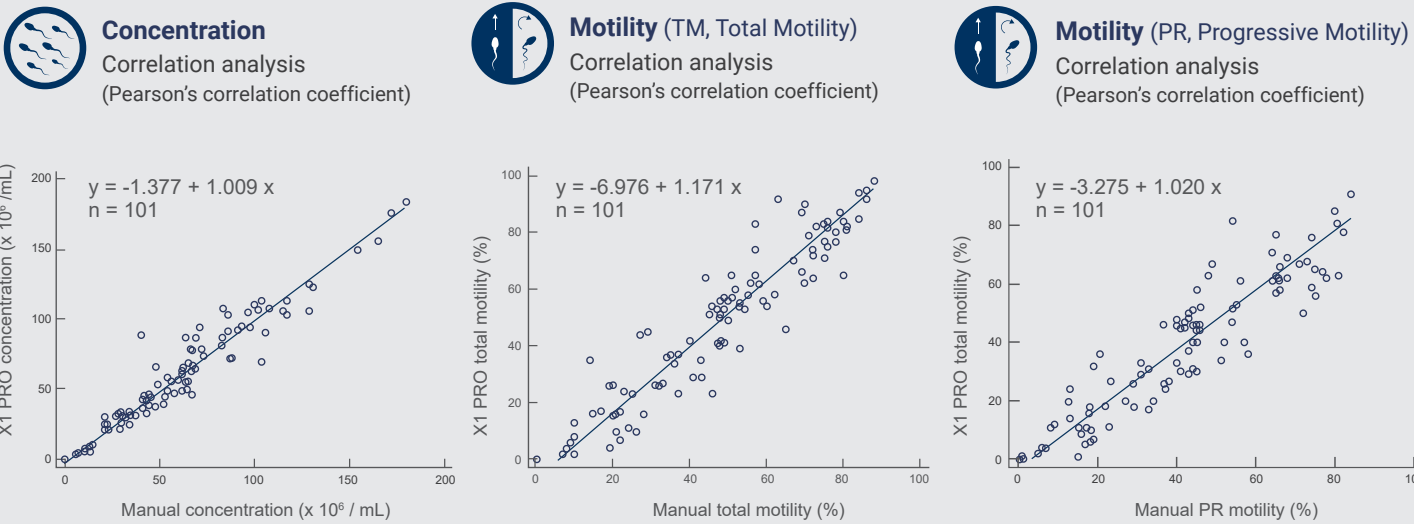


Validation Report

Manual Method V.S LensHooke® Semen Quality Analyzer

- Concentration, total motility and progressive motility measured using LensHooke® X1 PRO Semen Quality Analyzer had a very high correlation (p>0.9) with Manual Semen Analysis.



- Concentration & total motility showed correlation of inter-observer agreement (> 0.9) & CV% of intra-observer agreement (< 10%) for LensHooke® Semen Quality Analyzer.

	Correlation coefficient for the inter-observer agreement		Coefficient of variance (CV%) for the intra-observer agreement	
Parameters	Concentration	Motility	Concentration	Motility
Manual	0.9351	0.9181	8.63%	4.71%
LensHooke®	0.9485	0.9118	7.85%	9.89%

Source	Glickman Urological Institute, Cleveland Clinic, Cleveland, Ohio, USA
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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	< 2~300 (10 ⁶ /ml)
Motility (PR+NP,Total)	< 2~100%
Normal Morphology	< 2~100%



LensHooke®



Semen
Quality Analyzer
X1 PRO

 FULL HD	 CASA Report	 LAN Connection	 Quality Control	 Barcode Scanning
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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.



LAN Connection

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



Diversified Report Format

LensHooke® X1 PRO provides PDF, video reports, and CSV format data reporting to allow for easier system transfer.



4 Key Data for Diagnosis



pH value



Concentration



Morphology



Motility
(NP, PR, Total Motility)

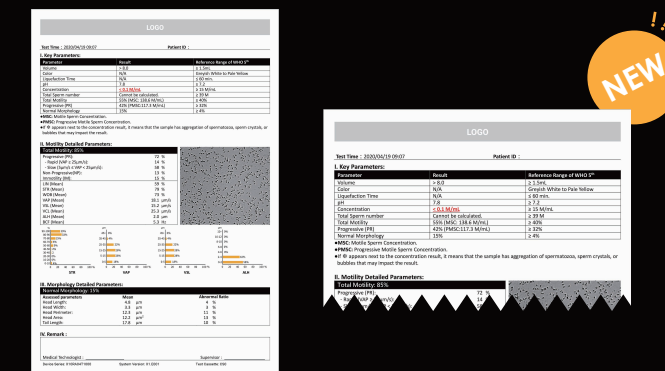


Only 3 Steps

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

Customized PDF Report

LensHooke® X1 PRO offers 4 key data for diagnosis in data format (MSC, PMSC, VAP, VSL, VCL, LIN, STR, WOB, ALH, and BCF), and allows users to choose their own logo/title and add it to the PDF report.



Barcode Scanning

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



Quality Control

By using with LensHooke® X QC Beads, X QC Reticle and X QC Video, LensHooke® X1 PRO can do the Quality Control Test in 3 different concentration levels.

