



Vision Sperm+

Digital solution for sperm analysis

sperm analysis



New standards in the daily work

Applications



- clinical laboratories
- semen analysis laboratories
- urology departments
- andrology departments
- gynaecology departments
- clinics specialized
in gynaecology, urology, etc.
- private clinics treating infertility
- sperm banks
- family planning centres
- infertility consultation centres
- male contraception consultation
centres



Vision concept

Vision concept is a modern approach to diagnostics, combining microscopy, digital image processing and analysis data. Specialists, that are looking for professional development and recognize new digital technologies, are presented with unlimited resources in their field.

Vision digital solutions

Vision digital solution is a workplace to obtain, manage, analyze and interpret digital microscopic samples. You work with a unified system where priority is given to efficiency.

Vision+ digital solutions

Vision+ digital solution combines the possibilities of digital solutions in microscopy and analytic medical devices to provide an integrated patient assay and a correct diagnosis.

Improve your standards and enhance the quality of your work! Take control of the increasing amount of information in your laboratory.

Vision solution



Digital microscopy

Digital microscopy (digital pathology) is a digital environment for managing and analyzing microscopy data, which is obtained using a microscope, a camera, software and a computer.

Digital microscopy allows you to attain qualitative and quantitative results, which are either impossible to receive by other means or cost and time consuming.

Sperm fertility analysis

Sperm quality analyzers quickly and reliably test the principal WHO parameters.

Vision Sperm+



Solution that combines information obtained from sperm morphology microscopy and results received from sperm quality analyzer. Effective tool to generate reports that include text as well as digital images of the sample.

Efficient unified system



- 1 Sperm quality analyzer
- 2 Personal computer with Vision software
- 3 Biological microscope with Vision camera

Local network
LIS/HIS
Internet

Vision Sperm+ is an integrated system for conducting sperm quality analysis and managing microscopy samples, patient data and analysis results

You now store and examine digital sperm samples and analysis results

An innovative approach to sperm analysis and workflow optimization

Main benefits



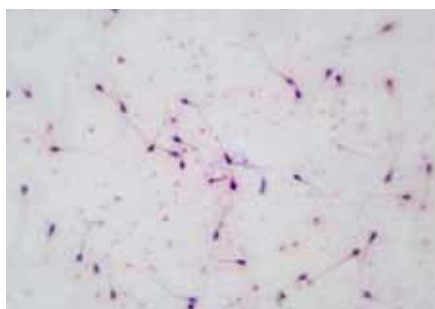
1 Quick and easy patient registration



2 Automatic sperm quality analysis



3 Microscopic examination of semen and generation of a digital sample



4 Reliable data management system stores all patient records and analysis results



5 Report generation according to individual requirements

Date	External ID	Album	Name
Thursday, August 17, 2011 8:44:51 PM			
Tuesday, August 23, 2011 8:44:30 PM	234	Semen analysis	
Tuesday, August 23, 2011 8:43:50 PM	233	Semen analysis	
Tuesday, August 23, 2011 8:41:36 PM	230	Semen analysis	
Tuesday, August 23, 2011 8:41:29 PM	219	Semen analysis	
Sunday, August 21, 2011 8:44:44 PM	215	Semen analysis	
Friday, August 19, 2011 8:42:58 PM	229	Semen analysis	
Wednesday, August 17, 2011 8:42:37 PM	227	Semen analysis	
Wednesday, August 17, 2011 8:42:27 PM	226	Semen analysis	
Tuesday, August 16, 2011 8:42:48 PM	228	Semen analysis	
Monday, August 15, 2011 8:43:00 PM	233	Semen analysis	
Friday, August 12, 2011 8:43:38 PM	232	Semen analysis	
Friday, August 12, 2011 8:43:04 PM	230	Semen analysis	

6 Automated statistical processing



7 Easy access to analysis results and digital samples



8 Telemedicine and remote consultations with colleagues



9 Education for specialists: scientists, doctors, lab technicians and students



Workflow optimization

1



Quick and easy patient registration

Creating and managing patient records became much easier. All patient data are shown in a chart form and can individually be adjusted by selecting the necessary fields: ID, name, surname, date of birth, age, etc.

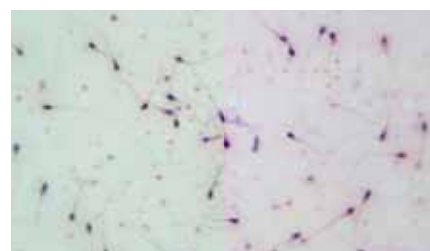
2



Saving of parameters received from sperm quality analyzer

Information from the sperm quality analyzer is entered in the database and integrated into the sperm analysis report.

3



Sperm microscopy and capture of a superior quality digital sample

Sperm microscopy and capture of a perfectly crisp digital image in one quick step. Received data and microscopic images are then integrated into a report automatically.

4



Report generation in accordance with modern requirements

Sperm analysis report template includes all the necessary parameters: physico-chemical, WHO, individual and microscopy.

Saved reports are available for search, preview, edit, print, send by e-mail and export to popular formats: PDF, DOC, XLS, JPEG, GIF, PNG and many others.

5



Secure and reliable data storage

Vision database stores all patient records, microscopic samples, analysis results, and reports. Information is shown in a form of a patient record with his/her analysis result. Possibility to assess quickly the dynamics in analysis results over a period of time.

The system saves all data automatically, excluding any possibility of losing valuable information.

6



Benefits of Internet connection

Connect several workplaces to a remote server and hold video conferences with colleagues from around the world, exchange digital albums, analysis results and reports, publish your research on specialized social networks.



Tests performed on sperm analyzer



Working with this system allows storing all patient's analysis results in the database of my office computer. At any time, I can see the analysis results, performed months or years ago, as well as observe the dynamics of change in tests over time



Sperm quality analysis



Prepare a sample for analysis using a semen collection capillary.



Place the capillary in the sperm quality analyzer, the test will start automatically. The results will be printed out in 75 seconds.

Semen analysis		
Parameters	Result	Measurement unit
Duration of abstinence	3	Days
Interval: ejaculation - analysis	30	min.
Appearance	Normal	
Liquefaction	Normal	
Consistency	Normal	
Viscosity	Normal	
Volume	3	ml/ml
pH	8	
Motility		
- (a) rapid progression	70	%
- (b) slow progression	15	%
- (c) non-progression	15	%
Motility		
- (a) rapid progression	28	MM/s

Enter results in the sperm analysis report.



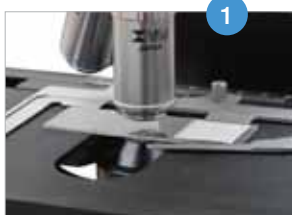
Sperm quality analyzers

Parameters tested	SQA IIC-P	QwikCheck Gold
total sperm concentration (TSC)	✓	✓
motility (a+b+c)		✓
progressive motility (a+b)	✓	
rapid progressive motility (a)		✓
slow progressive motility (b)		✓
non-progressive motility (c)		✓
immotility (d)		✓
calculated normal morphology	✓	✓
motile sperm concentration (MSC)	✓	✓
concentration (PMSC)		✓
functional sperm concentration (FSC)	✓	✓
sperm motility index (SMI)	✓	✓
average velocity		✓
total sperm	✓	✓
motile sperm	✓	✓
progressive motile sperm		✓
functional sperm	✓	✓



Image enhancement

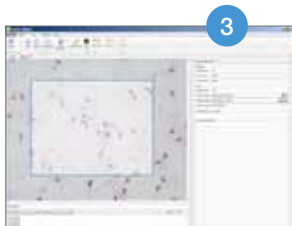
Image capture procedure



Find object of interest



Save captured image in the album



Edit image if necessary

Camera control tools



Camera settings

Different modes when working with color (8 or 16 bit) allow color depth adjustment. "Field alignment" function removes any image defects: uneven field illumination, dust and scratches on optical components of the system.



Color settings and exposure/brightness control

Manual or automatic color settings give the possibility of image adjustment according to illumination (LED or halogen). If its necessary to change image brightness, adjust exposure.



Histogram

Histogram explores contrast, saturation and exposure of the image, as well as estimates what is required when capturing/enhancing an image.



Preview

Live image preview. "Zoom" function lets you magnify the sample. "Resolution" function sets the size of the captured image in pixels.

Image editing tools

Crop

Select a fragment of an image and save it as a separate digital sample.

Scale

Reduce the image size for easier online operations.

Rotate

To make examination easier, turn your microscopic image at a certain angle.

Color

Select a color from a preset palette, use the 'Pipette' tool to select it from the image directly or set precise RGB values with alpha blending (transparency).

Color adjustment

To ensure the best quality of your digital image, use color adjustment tools such as brightness, contrast and saturation settings.

Edit

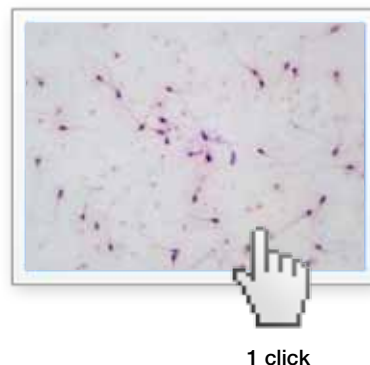
You can easily remove minor defects if they hamper your work.

Export/import

To exchange samples with your colleagues, it is easy to import and export images from your database.

Ergonomic image editing tools facilitate fast enhancement of a microscopic sample image

One click on a 'Color settings' button to correct an image and get a superior quality digital sample.



hue/saturation



brightness/contrast



sharpness



color balance



Report generation

Analysis procedure is easier than ever with a report template

Test results from the sperm quality analyzer are received and entered in the report.

Saved reports are available for search, preview, edit, print, send by e-mail and export to popular formats: PDF, DOC, XLS, JPEG, GIF, PNG and many others.



Report customization

You decide how your report will look like

You can take into account different template requirements (form and content). Add and delete analysis parameters, patient information fields and images.



Atlas

Atlas of analysis objects is an indispensable tool for object identification

Click on the "hint" button and you will see the images in the atlas, corresponding to the object of study.

Images can be added to the atlas by simply dragging and dropping them to the object field.

Report form

- 1 Report name
- 2 Laboratory logo
- 3 Analysis information
- 4 Patient information
- 5 Date and time of sample collection/delivery/report
- 6 Institution information
- 7 Comments about a patient/sample, etc.
- 8 Analysis results
- 9 Images
- 10 Interpretation of results
- 11 Recommendation
- 12 Validation
- 13 Date and time of validation
- 14 Signature
- 15 Page number

Report example on one page

1

SEMEN ANALYSIS REPORT

SpermLAB

2

3

Category

3

Sample ID 369

8

Test number 1

Sample collection date / time

6/10/2011 11:27 AM

Analysis date / time

6/10/2011 11:41 AM

8

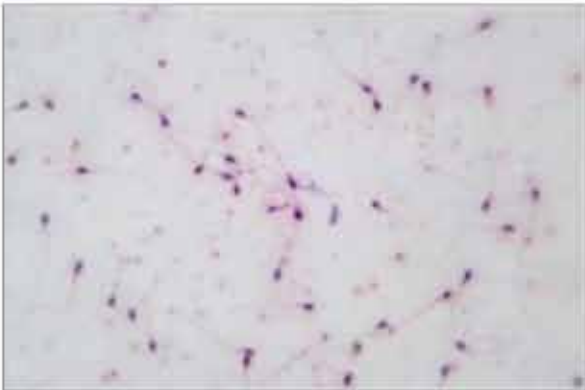
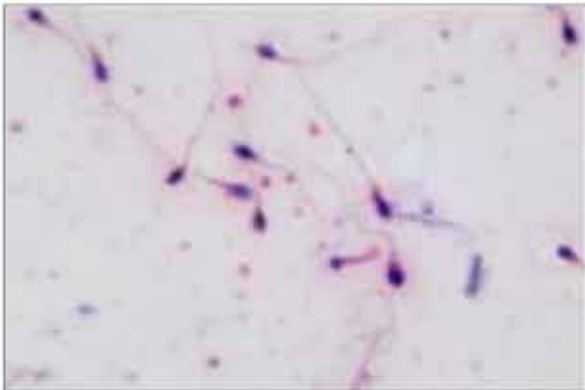
Semen analysis

5

Parameters	Result	Measurement unit	Reference range	< = >
Duration of abstinence	5	days	2-7	
Interval: ejaculation - analysis	30	min.		
Appearance	Normal		Normal	
Liquefaction	Normal		Normal	
Consistency	Normal		Normal	
Viscosity	Normal		Normal	
Volume	5	µl/sec	> 2.0	
pH	8		> 7.2	
Mobility				
(a) rapid progression	70	%		
(b) slow progression	15	%		
(c) non-progression	10	%		
Mobility				
(a) rapid progression	18	M/ml		
(b) slow progression	4	M/ml		
(c) non-progression	2	M/ml		
Agglutination	7	%		
Vitality	90	% live	> 50.0	
Concentration	25	M/ml	> 20.0	

9

Images

10

Interpretation of results

Concentration parameters are within the normal range, percentage of normal morphology is over 15

11

Recomendation

12

Name	Dr. Chris Mayers	Date	6/10/2011
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13

Signature _____

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Page 1/1

15

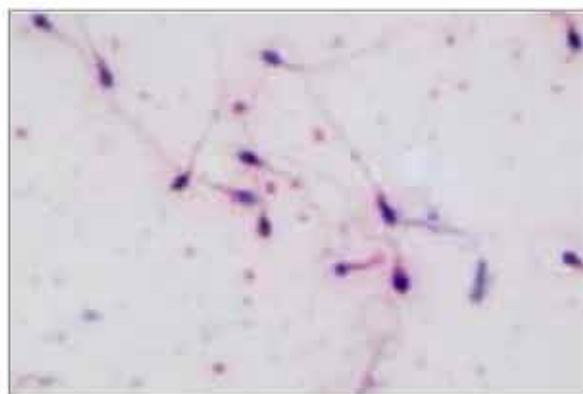
13

1 SEMEN ANALYSIS REPORT		2 SpermLAB		
3	Category		Sample collection date / time	7/22/2011 12:00 PM
	Sample ID	369	Analysis date / time	7/25/2011 12:54 AM
	Test number	1		
4	Patient ID	148	Institution	Apollo Hospital
	Name	Bob Smith	Address	25 Yongue str
	Birth date	7/16/1970	Department	
	Gender	Male	Ward	
	Address	101, Bay str	Practice	
	Insurance	Eurolife	Physician name	Dylan Freeman
	Medical record	m53250005b		
7	Comments			
8	Semen analysis			
	Parameters	Result	Measurement unit	Reference range < = >
	Duration of abstinence	5	days	2-7
	Interval: ejaculation - analysis	30	min.	
	Appearance	Normal		Normal
	Liquefaction	Normal		Normal
	Consistency	Normal		Normal
	Viscosity	Normal		Normal
	Volume	5	µm/sec	> 2.0
	pH	8		> 7.2
	Motility			
	(a) rapid progression	70	%	
	(b) slow progression	15	%	
	(c) non-progression	10	%	
	(d) immotile	5	%	
	Motility			
	(a) rapid progression	18	M/ml	
	(b) slow progression	4	M/ml	
	(c) non-progression	2	M/ml	
	(d) immotile	1	M/ml	
	Velocity	7	µm/sec	
	Sperm motility index (SMI)	82		
	Agglutination	7	%	
	Aggregation	3	%	
	Vitality	90	% live	> 50.0
	Concentration	25	M/ml	> 20.0
	Total sperm number	110		> 40.0
	Morphology			
	Normal	30	%	> 15.0
	Head defects	5	%	
	Neck or midpiece defects	3	%	
	Tail defects	20	%	
	Cytoplasmic defects	10	%	
	Functional sperm concentration (FSC)	30		
	Teratozoospermia index (TZI)	5		
	White blood cells (WBC)	1	M/ml	< 1.0 >

Red blood cell	1	M/ml		
Immature germ cells	1	M/ml		
Immunobead / MAR test	1	%	< 50.0	
MAR test	1	%	< 50.0	
Biochemistry				
Zinc	1	mmol/l	0.3–1.5	
Fructose	22	mmol/l	6.5–33.3	
α-glucosidase neutral	22	U/l	> 20	
Citric acid	0	mmol/l	> 20.0	<
Acid phosphatase	250	U/l	> 200.0	
Free L-carnitine	480	mmol/l	> 470.0	

9

Images



10

Interpretation of results

Concentration parameters are within the normal range, percentage of normal morphology is over 15

11

Recomendation

12

Validated by

Name	Chris Mayers	Date	7/25/2011
Position	Lab technician	Time	3:42 PM

13

Signature _____

14

15

Database



*Thanks to the database
I can be sure that
my analysis results
are stored securely,
and, what is the most
important, statistical
reports no longer take
so much time to prepare*



Reliable database

Vision database stores all patient records, microscopic samples, analysis results, and reports. Information is shown in a form of a patient record with his/her analysis result. Possibility to assess quickly the dynamics in analysis results over a period of time.

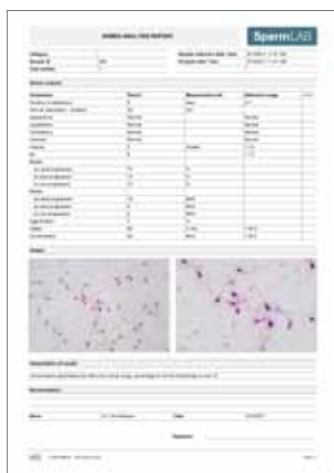
The system saves all data automatically, excluding any possibility of losing valuable information. Advanced data management tools, like filtering and sorting, will help you not to waste time on searching.

Storage, statistic handling, quick search, cooperation with colleagues, remote access via Internet and integration into other information networks (LIS/HIS).

If you need a special report template or additional data fields to a patient record, we can help you customize the database according to your requirements.

Name	Surname	Age	Analysis
John	Doe	35	Normal
Jane	Smith	28	Abnormal
Mike	Johnson	42	Normal
Sarah	Williams	31	Abnormal
David	Brown	25	Normal
Emily	Green	38	Abnormal
Chris	White	33	Normal
Alex	Black	29	Abnormal
Olivia	Grey	36	Normal
Lucas	Gold	30	Abnormal
Sophia	Silver	27	Normal
Benjamin	Copper	40	Abnormal
Mia	Iron	34	Normal
Ethan	Steel	26	Abnormal
Ava	Aluminum	32	Normal
Noah	Zinc	37	Abnormal
Isabella	Lead	30	Normal
Liam	Mercury	28	Abnormal
Morgan	Cadmium	35	Normal
Chloe	Chromium	31	Abnormal
Caleb	Manganese	29	Normal
Harper	Cobalt	33	Abnormal
Wyatt	Nickel	36	Normal
Madison	Copper	27	Abnormal
Elijah	Zinc	34	Normal
Avery	Lead	30	Abnormal
Logan	Mercury	38	Normal
Skylar	Cadmium	25	Abnormal
Jonathan	Chromium	32	Normal
Stephanie	Cobalt	28	Abnormal
Aiden	Nickel	35	Normal
Madeline	Copper	31	Abnormal
Carter	Zinc	29	Normal
Isabelle	Lead	37	Abnormal
Grayson	Mercury	33	Normal
Brooklyn	Cadmium	26	Abnormal
Isaac	Chromium	34	Normal
Chloe	Cobalt	30	Abnormal
Jack	Nickel	36	Normal
Abigail	Copper	27	Abnormal
Robert	Zinc	34	Normal
Victoria	Lead	30	Abnormal
Michael	Mercury	38	Normal
Samantha	Cadmium	25	Abnormal
Christopher	Chromium	32	Normal
Christina	Cobalt	28	Abnormal
Andrew	Nickel	35	Normal
Christine	Copper	31	Abnormal
Matthew	Zinc	29	Normal
Christina	Lead	37	Abnormal
Joseph	Mercury	33	Normal
Christina	Cadmium	26	Abnormal
Robert	Chromium	34	Normal
Christina	Cobalt	30	Abnormal
William	Nickel	36	Normal
Christina	Copper	27	Abnormal
James	Zinc	34	Normal
Christina	Lead	30	Abnormal
Richard	Mercury	38	Normal
Christina	Cadmium	25	Abnormal
Thomas	Chromium	32	Normal
Christina	Cobalt	28	Abnormal
Charles	Nickel	35	Normal
Christina	Copper	31	Abnormal
Christopher	Zinc	29	Normal
Christina	Lead	37	Abnormal
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John	Chromium	34	Normal
Christina	Cobalt	30	Abnormal
Robert	Nickel	36	Normal
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Christina	Lead	30	Abnormal
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Thomas	Chromium	32	Normal
Christina	Cobalt	28	Abnormal
Charles	Nickel	35	Normal
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Christopher	Zinc	29	Normal
Christina	Lead	37	Abnormal
George	Mercury	33	Normal
Christina	Cadmium	26	Abnormal
John	Chromium	34	Normal
Christina	Cobalt	30	Abnormal
Robert	Nickel	36	Normal
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Christina	Lead	30	Abnormal
Richard	Mercury	38	Normal
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Christopher	Zinc	29	Normal
Christina	Lead	37	Abnormal
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Christina	Cadmium	26	Abnormal
John	Chromium	34	Normal
Christina	Cobalt	30	Abnormal
Robert	Nickel	36	Normal
Christina	Copper	27	Abnormal
William	Zinc	34	Normal
Christina	Lead	30	Abnormal
Richard	Mercury	38	Normal
Christina	Cadmium	25	Abnormal
Thomas	Chromium	32	Normal
Christina	Cobalt	28	Abnormal
Charles	Nickel	35	Normal
Christina	Copper	31	Abnormal
Christopher	Zinc	29	Normal
Christina	Lead	37	Abnormal
George	Mercury	33	Normal
Christina	Cadmium	26	Abnormal
John	Chromium	34	Normal
Christina	Cobalt	30	Abnormal
Robert	Nickel	36	Normal
Christina	Copper	27	Abnormal
William	Zinc	34	Normal
Christina	Lead	30	Abnormal
Richard	Mercury	38	Normal
Christina	Cadmium	25	Abnormal
Thomas	Chromium	32	Normal
Christina	Cobalt	28	Abnormal
Charles	Nickel	35	Normal
Christina	Copper	31	Abnormal
Christopher	Zinc	29	Normal
Christina	Lead	37	Abnormal
George	Mercury	33	Normal
Christina	Cadmium	26	Abnormal
John	Chromium	34	Normal
Christina	Cobalt	30	Abnormal
Robert	Nickel	36	Normal
Christina	Copper	27	Abnormal
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William	Zinc	34	Normal
Christina	Lead	30	Abnormal
Richard	Mercury	38	Normal
Christina	Cadmium	25	Abnormal
Thomas	Chromium	32	Normal
Christina	Cobalt	28	Abnormal
Charles	Nickel	35	Normal
Christina	Copper	31	Abnormal

Network capabilities



View analysis results on the screen and discuss with your colleagues.



Print out your reports.



Data import/export to other information networks (LIS/HIS).



Share information with people wherever they are. Send your reports by email.



Organize video conferences with colleagues from around the world.












Connect, via Internet, multiple workplaces to a remote server.



Publish your research on specialized social networks.

Main characteristics

	Description	Vision Sperm+	Vision Sperm+
	Biological trinocular microscope with “infinite” optics and Vision digital camera. Preview live video on a PC as well as capture a digital microscopic sample.	✓	✓
	SQA IIC-P sperm quality analyzer tests main WHO parameters: motility, concentration and total sperm.	✓	
	QwikCheck Gold sperm quality analyzer tests main WHO parameters: motility, concentration and total sperm.		✓
	Personal computer with Vision Sperm+ software, high resolution monitor and color printer.	✓	✓
	A professional set of tools to work with digital samples: create, edit, organize, classify and comment.	✓	✓
	Storage, statistic handling, quick search, cooperation with colleagues, remote access via Internet and integration into other information networks (LIS/HIS).	✓	✓
	Sperm quality analysis report template. Customizable report reference guide to fit your personal requirements.	✓	✓
	Report contains: images, analysis parameter fields, measurement units and reference range.	✓	✓
	Report operations: search, preview, edit, print, e-mail and export in popular formats: PDF, DOC, XLS, JPEG, GIF, PNG and many more.	✓	✓

Ordering information



Description	Code
<p>Vision Sperm+ system Set includes: SQA IIC-P sperm quality analyzer, MT4300L biological microscope, Vision CAM V1200 digital camera, Vision Sperm+ software, PC, monitor, printer.</p>	60.0009.00
<p>Vision Sperm+ system Set includes: QwikCheck Gold sperm quality analyzer, MT4300L biological microscope, Vision CAM V1200 digital camera, Vision Sperm+ software, PC, monitor, printer.</p>	60.0019.00
<p>Vision Sperm+ software Set includes: Vision Sperm+ software.</p>	20.0009.01



WEST MEDICA
Franz-Siegel-Gasse 1
2380 Perchtoldsdorf, Austria
tel.: +43 (1) 804 81 84
fax: +43 (1) 804 81 85
vienna@westmedica.com

www.vision-at.com

We reserve the right to change specification without notice.

Official distributor

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