



Specifications

Sperm Quality Analyzer SQA-V

General characteristics

Measurement Compartment	<ul style="list-style-type: none">— sources of radiant energy — two LEDs for motility and spectrophotometry channels— detector system — two photo detectors — Motility and Optical Density
Sample type	<ul style="list-style-type: none">— fresh— washed— frozen— post-vasectomy
Specificity	concentration: 85 %, motility: 80 %, normal morphology (WHO): 65 %, high-sensitivity test: 95 % motile cells determination
Sensitivity	concentration: 90 %, motility: 85 %, normal morphology (WHO): 85 %
Visualization Compartment	<ul style="list-style-type: none">— white LED illumination system— CCD, 330 TV lines— objective: Standard, 20x— signal output: PAL standard— ZOOM system for magnification transition between 300x and 500x— focus regulator
Displays	<ul style="list-style-type: none">— operational backlight LCD (16 lines x 40 characters)— video backlight LCD (8x10 cm)
Printer	<ul style="list-style-type: none">— built-in, dot matrix— 58 mm paper, with 20 characters per line— ribbon cassette
Keypad	<ul style="list-style-type: none">— operational keys— numeric buttons— cursor buttons— video control keys
Interface	video output (RCA), RS-232 cable plug-in
Accessories for testing sample	<ul style="list-style-type: none">— measuring capillary: disposable, plastic, loaded syringe for an easy aspiration of sample— standard laboratory microscope slide: depth 20 microns, coverslip 22x22 mm
Memory	500 test results, 500 QC-measurement
Operation system	<ul style="list-style-type: none">— analysis time: normal test — 75 seconds, high-sensitivity/postvasectomy test — 9 minutes (5 minutes in version 2.45 of the SQA-V software)— software: controls all functions, provides measurement algorithm (according to WHO'99), and provides visual and automatic test performance— temperature for sample testing: calibrated for use at room temperature. Motility tests will degrade over time and will vary if the sample is heated— input signal from motility channel: analog, up to 5 V— input signal from spectrophotometer channel: modulated (1 kHz), analog, up to 5 V
Quality control	<ul style="list-style-type: none">— internal: electronic self - test and auto-calibration— external: "QwikCheck™ beads" quality control material for zero level and concentration
Dimensions, weight	40x30x15 cm (HxWxD), 5 kg
Power supply	100-250 V AC, 50/60Hz
System requirements for software	CPU 1 GHz or better, RAM 256 MB, HDD free space 200 MB, AGP-Video Board with minimum 16 MB RAM, Monitor 15" with minimum resolution 640x480 and 16-bit color, CD-ROM drive, Windows XP OS and higher, DirectX, DivX, RS-232 and two USB ports