SemScan

Advanced CASA System for Bovine Semen

SemScan

The **latest Computer Assisted Semen Analysis (CASA) for bovine semen** with high imaging and precision measurement

- Counts, Concentration, Percentage
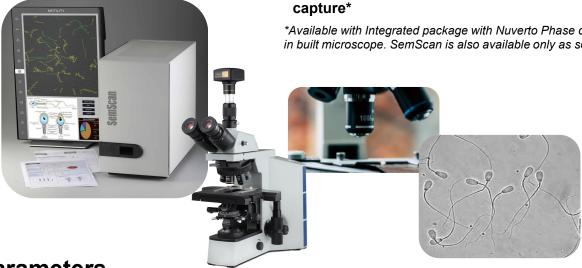- Dose calculation, Extender volume
- Morphology
- Kinematics
- Morphometry

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Software Overview

- **Quick calibration** with any Phase contrast microscope with specified specifications
- **Illumination check** for quick set up to optimize identification of sperm head and tail for consistent results
- **Live image area**
- **Thumbnail gallery** of captured video images
- **Unlimited Auto save** of captured videos
- **User options** to select number of videos/frames/view per sample

Key benefits

- **Precise sperm tracking**
- **Automated Analysis**
- **Dose calculation** – Concentration, Extender Volume, Number of Doses
- **Automated heated stage ***
- **Easy to use GUI**
- **High Speed, high resolution digicam**
- **Limitless predefined setups for fresh semen and frozen semen**
- **Customizable reports** with captured video images
- **Option of automatic or manual field capture***

*Available with Integrated package with Nuverto Phase contrast in built microscope. SemScan is also available only as software.

Parameters

Counts, concentration and percentages	• Total, static, motile, progressive, slow, immotile cells
Doses	• Dilutor/extender volume, total final volume and number of semen units
Kinematic measurements	• Individual, Average, Median values of sperms (each and every sperm analysed) • DAP, DSL, VAP, VSL, VCL, ALH, STR, LIN, BCF etc
Morphometrics	• Sperm characteristics like Head length, width, perimeter and area with tail characteristics like legth, straightness and also droplet distance
Automated morphology	• Distal and proximal droplets, midpiece reflexes, coiled and bent tails

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