

# QUALISPERM FOR ANIMALS

Qualisperm™ is a automated easy-to-use CASA system based on a high-quality upright microscope providing the most important parameters such as concentration, motility, and morphology. The microscope is equipped with an advanced but robust and cost-efficient digital camera enabling the precise acquisition and storage of digital images of sperms in a sequence.

These digitally acquired images are then in turn processed using our proprietary semen analysis algorithm based on a fundamentally new technology rendering very accurate and reproducible results clearly outperforming the current computerized semen analysis systems on the market.

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## The Qualisperm™ provides:

- Advanced robust, reliable, and top quality system components
- A state-of-the-art image recognition algorithm for accurate and reproducible measurements
- A software solution where the main objective has been to facilitate and increase the speed of acquisition in order to provide the user with the best possible data quality

We included a Digital Sperm Washing (DSW) algorithm in order to improve discrimination between sperms and other objects in the image. This feature leads to a significant reduction in acquisition time since time-consuming post-processing of images is omitted.

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## Qualisperm provides an easy-to-read-report with the following parameters:

- Total concentration (millions/ml)
- Total sperms counted
- % Progressive motile, % non-progressive motile, % immotile
- % speed classes A-D (or individually definable)
- Mean Speed (VAP)
- % cytoplasmatic droplets (boar module)
- Storage of data, images and movies
- Possible implementation and connection to existing databases and information systems