



MAGAVISION MACHINE LEARNING

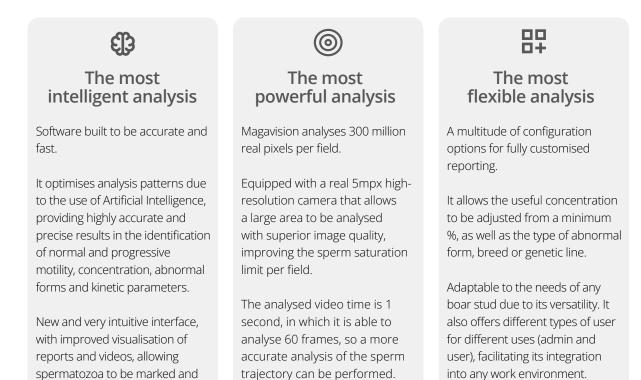




Artificial vision system

Evaluates motility, concentration and abnormal forms quickly, accurately and easily.

The 4th generation of Magavision, a CASA artificial vision system exclusively for boars. Developed entirely by our IT team with Machine Learning and Artificial Intelligence technology to optimise its accuracy and speed of analysis. Adaptable to each user thanks to the different versions available.



3 versions, maximum versatility

The most accurate artificial vision system on the market

MAGAVISIONtech

unmarked according to their

condition.

TECHNICAL VERSION Magavision TECH analyses concentration, motility and total abnormal forms with high velocity and accuracy.



PREMIUM VERSION With Magavision PREM, you also get the quality of movement and the breakdown of drops, tails and heads.



ELITE VERSION The most powerful version completes the analysis by taking into account all the kinetic parameters of the movement.



All you need in a single device

What does Magavision tech, prem & elite include?

Trinocular Microscope

- With negative phase contrast
- Heated plate
- Microscope video camera
- CPU with Magavision software
- Processor: Intel Core i7 2.10GHz
- RAM Memory: 16GB DDR5 •
- Hard disk: 2TB

Analysis accessories

- 1 box of counting chambers
- Micropipette 0,5 10 microlitres and tips
- Micropipette 100 1000 microlitres and tips
- Metal rack for heating samples
- Dilution tubes

Compatible with Smart Stage (Optional)



*A stable electrical connection is required. If this cannot be guaranteed, Magapor recommends the use of a UPS for protection.

Full connectivity to optimise information flows

Perfectly integrated with Gesipor for an integral management of the process, as well as with other management software to get the most out of the boar stud.

Calculate and maximise the number of doses according to the configured parameters. You can adjust each batch of doses according to the breed, genetic line or quality parameters you define in each case.

Configure, view and export all the reports you need to take full control of production and streamline decisionmaking.

Smart Stage, the ideal complement

Motorised, heated and auto-focusing stage.

Magavision optionally includes a motorised, heated and auto-focusing stage.

The motorised stage enables multi-tracking and multi-analyses, allowing up to 20 samples to be loaded at the same time and perform their analysis simultaneously and fully automatically.



20 samples in less than 5 minutes

C Automatic focus

Multi-tracking and multi-analyses up to 20 samples







Which Magavision best suits you?

| | MAGAVISION tech | MAGAVISION prem | MAGAVISION elite |
|---|--------------------|--------------------|---------------------|
| Individual, total and progressive motility | \bigcirc | \bigcirc | \bigcirc |
| Concentration | \bigcirc | \bigcirc | \bigcirc |
| Identifies motile and normal spermatozoa | \bigcirc | \bigcirc | \bigcirc |
| Total abnormal forms | \bigcirc | \bigcirc | |
| Classifies drops morpho-anomalies (proximal and distal) | \bigcirc | \bigcirc | \bigcirc |
| Classifies tails morpho-anomalies (Folded and Curled) | \bigcirc | \bigcirc | \bigcirc |
| Classifies head morpho-anomalies | \bigcirc | \bigcirc | \bigcirc |
| Excludes agglutinations | \bigcirc | \bigcirc | \bigcirc |
| Calculates agglutinations | \bigcirc | \bigcirc | \bigcirc |
| Classifies speeds (fast, medium, slow and static) | \bigcirc | \bigcirc | \bigcirc |
| Movement speed (VCL, VSL, VAP) | \bigcirc | \bigcirc | \bigcirc |
| Movement trajectory (STR, LIN, WOB) | \bigcirc | \bigcirc | \bigcirc |
| Displacement amplitude (ALH) | \bigcirc | \bigcirc | \bigcirc |
| Beating frequency (BCF) | \bigcirc | \bigcirc | \bigcirc |
| Distances (DCL, DSL, DAP) | \bigcirc | \bigcirc | \bigcirc |
| Mean angular displacement (MAD) | \bigcirc | \bigcirc | |
| With Smart Stage (Optional) | | | |
| Auto-focus | \bigcirc | \bigcirc | \bigcirc |
| Automatized analysis | \bigcirc | \bigcirc | |
| Multi-analysis (up to 20) | \bigcirc | \bigcirc | \bigcirc |
| Multi-tracking (up to 20) | 0 | 0 | 0 |

Counting chambers

High precision cell counting chambers.

- 5 analyses per chamber.
- 25 chamber box (125 analyses).



