

# AndroScope

**CASA System To Go** 





**Compact mobile CASA system that fits in any pocket** 





### Monitor semen quality for successful breeding

AndroScope is a compact mobile CASA system that is based on **AndroVision**<sup>®</sup>. It allows to analyze semen samples anywhere and to monitor semen **motility** and **concentration** at any point in the production, transport, and insemination process.



### Sophisticated technology in the smallest of spaces

AndroScope is equipped with a professional **high-speed camera** and a **robust focus adjustment** for precise semen analysis. The **heating unit** in the analysis area of the mobile CASA reaches the optimal temperature for semen analysis within a few seconds, so that semen analysis is performed at optimal temperature conditions.



# Countless application possibilities for your daily practice

AndroScope is an excellent option for many applications, with special focus on the use in the field. Sperm motility and concentration of **various species** can be analyzed within some seconds. Standard profiles for bulls, boars, stallions, dogs, small ruminants, and poultry are stored by default, further profiles can be added in collaboration with Minitube. You can either analyze **fresh**, **chilled**, **or frozen-thawed** semen.



## Concentration and motility results at a glance

AndroScope provides reliable, objective analysis results without the services of a stationary semen lab. You can follow the analysis **live on the screen** and generate a **PDF report** with the most important parameters clearly mapped. Analysis reports can be saved and shared with others.



# Flexible and easy use, no matter where you are

AndroScope works with every **PC**, **laptop**, **or tablet** where MS Windows 10 or newer is installed. An **USB-3.0 plug** is necessary to connect the AndroScope. You do not need internet or electricity to run AndroScope. It is powered by the connected device. The analysis unit is designed for the use with disposable Minitube **counting chambers**. Other counting chambers of the same dimensions, (e.g.) Leja chambers or a standard microscope **slide with cover glass\*** can also be used.

AndroScope is quick and easy to set up, use, and clean. Due to its **user-oriented design**, it only requires little training to perform an accurate analysis.

\*If only sperm motility is to be analyzed.

# Device and accessories compactly stowed in one case

A practical, robust carry case provides optimal protection for the transport of the AndroScope and contains everything you need to perform a semen analysis: the AndroScope unit, Minitube counting chambers, test and capillary tubes. Test tubes are used to prewarm the sample. With the capillary tubes you can fill a counting chamber or place a droplet of a sample on a microscope slide.



AndroScope transport case: safe and practical

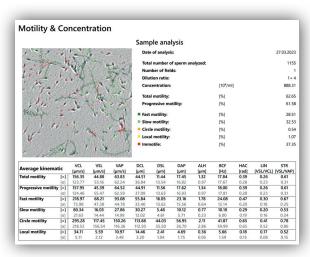






### Precise semen analysis: verified accuracy

AndroScope analyses provide accurate data on sperm motility and concentration, as trials verified. Figure 1 shows the linear correlation of total and progressive motility measured with AndroVision® and AndroScope. An R<sup>2</sup> (coefficient of determination) of 1.0 means that there is a complete correlation between the methods. For the comparison of AndroVision® and AndroScope, R<sup>2</sup>=0.94 for total motility and R<sup>2</sup>=0.97 for progressive motility (*figure 1*) indicate high correlation between the measurement methods. This also applies to the measured sperm concentration, for which an R<sup>2</sup> of 0.93 was obtained (*figure 2*).



PDF analysis report: all important parameters at a glance

#### **Motility AndroVision® - AndroScope**

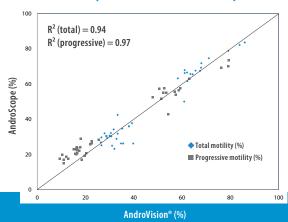


Figure 1: Linear regression to evaluate the accordance of total and progressive motility analyzed by AndroVision® and AndroScope

### Sperm concentration AndroVision® - AndroScope

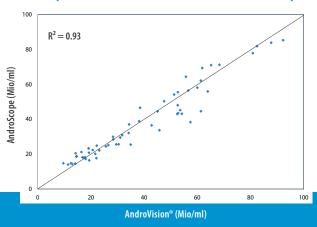


Figure 2: Linear regression to evaluate the accordance of sperm concentration analyzed by AndroVision® and AndroScope

### Semen analysis with AndroScope in 6 easy steps

- 1. Prewarm semen sample and slide, we recommend to use the mobile warming unit (see accessories)
- 2. Connect AndroScope to laptop/tablet and start software, live image flashes until optimal analysis temperature is reached
- 3. Fill prewarmed semen sample into counting chamber
- 4. Check/adjust focus
- 5. Perform analysis
- 6. Create and save report if necessary









- 1x AndroScope
- 1x transport case
- 1x USB-stick with software
- 1x cable for connecting AndroScope to Windows® device
- 25x disposable counting chambers Minitube, 20 μm
- 25x test tubes 2 ml with cap
- 100x disposable capillary tubes for filling the counting chamber

AndroScope REF.: 12500/3000

#### **Accessories**

(1) Disposable counting chamber Minitube,

20 μm, 4 chambers, 25/box REF.: 12050/0220

(2) Test tube 2 ml with cap, 250/bag REF.: 14602/0904

(3) Disposable capillary tube, 100/bag REF.: 15404/0100

### Recommended for sample preparation:

(4) Mobile warming unit,

for 6 test tubes and 1 slide REF.: 12057/6000

The software is available in 6 languages: English, German, Spanish, Portuguese, Russian, and Chinese







The mobile warming unit can be ordered optionally. It finds place in the AndroScope case, so that all equipment is compactly packed together.



Watch our product video to learn how easy and precise semen analysis with AndroScope works.

