

SMAS

Sperm Motility and Morphology Analysis System

Requirements

- ◆ **Analysis Software**
- ◆ **High Speed Camera**
- ◆ Microscope (see below for more details)
- ◆ PC
(Windows 7 or 10. 64bit OS. Intel Core i7 or above)
- ◆ Counting Chamber (10-12 µm)
(Makler Chamber or Disposable chamber)

Analysis software and High speed camera are included in the price.
You can add a counting chamber to your order.
It is required to prepare for Microscope and PC locally.

Microscope

Phase-contrast microscope

Recommended model: **Nikon Eclipse E200 (LED)**

Compatible microscope models:

Olympus BX53, Leica DM750, Carl Zeiss Axio Scope A1

Motic BA310E (goat sperm)

*We have experienced with these models.

Other than those above, it is not guaranteed if SMAS can work properly.

Compared to other sperm analysis in the market, the price for SMAS should be competitive.
When you use Makler Chamber (reusable chamber), it will pay off soon enough depending on how many testings conducted.

Makler Chamber

Reusable sperm counting chamber (10µm)



Required items to set up microscope for each analysis

Motility

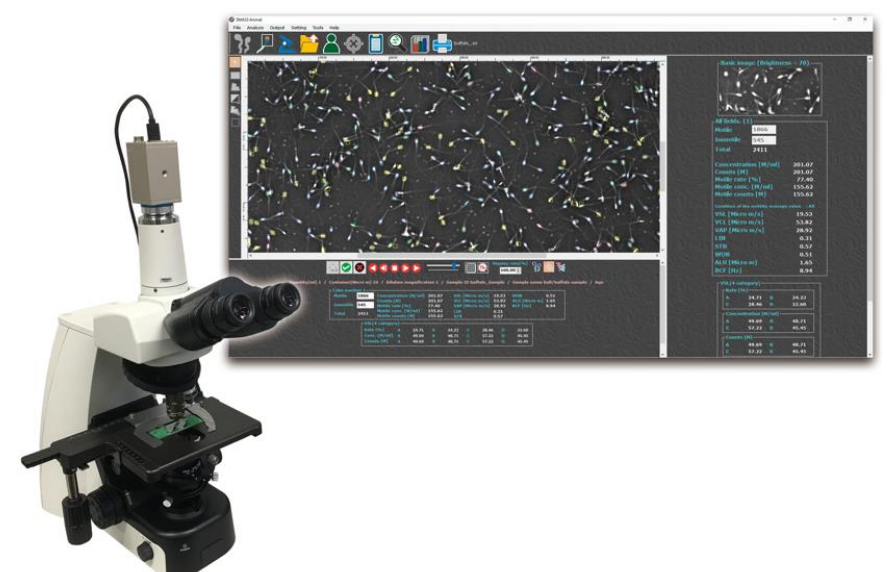
| | Lens (Object) | Lens (Relay) | Optical Filter |
|---------------------------|---|------------------|---|
| Human (and monkey) | Positive phase contrast microscope (dark contrast) 10x magnification | 1x magnification | 550nm band-pass filter Nikon: GIF Olympus: IF-550 |
| Animals | Negative phase contrast microscope (bright contrast) 10x magnification | 1x magnification | 640nm band-pass filter |

Option

- Integration with other systems
- EMR (Electronic medical record system)
- IVF management system
- Management with Barcodes, QR codes

Morphology

| | Stain | Lens (Object) | Lens (Relay) | Optical Filter |
|---------------------------------|------------|--|------------------|---|
| Human | Diff Quick | Bright-field 100x magnification (oil-immersion type) | 1x magnification | 550nm band-pass filter Nikon: GIF Olympus: IF-550 |
| Animals (bulls and pigs) | Giemsa | Bright-field 60x magnification, Bright-field 100x magnification (oil-immersion type) | 1x magnification | 550nm band-pass filter Nikon: GIF Olympus: IF-550 |



*DNA fragmentation is soon to be integrated to SMAS. (Human version only)



If you have any questions, please feel free to contact us.
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Price, technical specification, and appearance are subject to change without prior notice.

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