

# SVM - 3100

## 3D Surgical Video Microscope



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

[www.analyticalgroup.net](http://www.analyticalgroup.net)

## ▶▶ A NEW PARADIGM IN SURGICAL VIDEO MICROSCOPE:

ATL has tirelessly invested in R&D to introduce world class surgical equipment. We invented the world's first concept of a 3D digital video microscope system and released it on the medical market.

SVM3100 with its unique patented technologies, offers a comfortable, safe, and precise surgical environment.

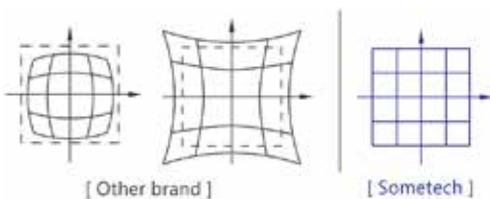
Come and discover the world of perfect full 3D image in high definition.

### Our patented new concept of head-up display provides

- Relief from neck and lumbar pain, eye strain and headache
- Shorter and more precise surgery with 3D image in full HD
- Compact design offers more workable space in the operating room
- X, Y, Z axis micro movement



## ▶▶ Advantages:



### Distortion free

ATL's patented lens can minimize the chromatic aberration. Surgeons are relieved from eye strain, dizziness, and headache caused by distortion.



[Eyepiece type]



[Head-up type]

### Unparalleled depth of focus and wider field of view

ATL's patented image processing technology provides crystal clear images not only for the immediate but also the surrounding area.



### Intuitive GUI

SVM3100 provides intuitive GUI and built-in recording system. The user can set 'image quality' and record by touch screen.



### Easy and precise movement

Ergonomic design allows easy and precise movement. Surgeons can place the camera to the focus on surgical area easily.

### Effective training tool for surgeons

Traditional surgical microscopes utilize eyepieces with a beam splitter to share images with less than ideal output quality. SVM3100 directly transmits 3D full HD images from the monitor without degradation in picture quality. Surgeon trainees are able to learn and assist surgeons more effectively.

### X, Y, Z axis movement is fully motorized

SVM3100 adjusts to your needs. With the microscope's touchscreen you can control both the microscope and the video camera. The display is easy

to use and can be easily accessed during an operation.

SVM3100, fully motorized movement provides surgeons with greater convenience.

### Wired & Wireless footswitch

The ergonomically designed wireless foot switch panel enables you to control SVM3100 precisely through wired or wireless connection

### Compact design for even limited space

The compact design makes SVM3100 suitable for smaller operating rooms such as those in local clinics and ASCs (Ambulatory Surgical Centers).



X axis movement



Y axis movement



Z axis movement



Wired & Wireless footswitch

▶▶ **Adjustable optical zooming up to two times by the simple twist of a turret:**



**Convenient digital zoom by footswitch**

Digital zoom can be operated either by GUI on the main unit or foot switch for maximum convenience during surgery.

**< Lens magnification >**

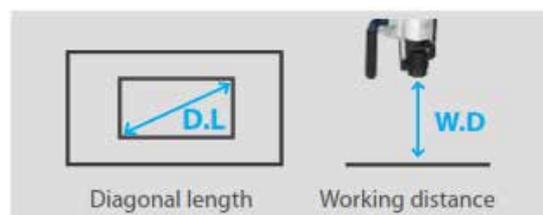
Distance and monitor size		Lens magnification based on D.L(Diagonal length)									
Single lens D.L	20mm	30mm	40mm	50mm	60mm	80mm					
Working Distance	W.D:230mm					W.D:350mm					
Turret lens D.L	10-20mm		19-38mm		30-60mm		30-55mm		50-90mm		
	10mm	20mm	19mm	38mm	30mm	60mm	30mm	55mm	50mm	90mm	
Working Distance	W.D:210mm		W.D:220mm		W.D:230mm		W.D:310mm		W.D:350mm		
27" Monitor	68x	30x	36x	18x	22x	11x	22x	12x	13x	7x	
32" Monitor	80x	40x	42x	21x	27x	13x	27x	14x	15x	9x	

▶▶ **Options:**



**Various magnification 3D lenses and light focusing lenses**

One microscope lens and matching light focusing lens will be provided in the select unit. Additional microscope lenses and light focusing lenses are available for optional purchase.





**Handrails for disinfection**

Reusable handle cover is available for sterilization.



**Light ON/OFF footswitch**

Turn on/off the side light and coaxial light by pushing a button.



**Spinal surgery**

For spinal surgery, a longer custom pole and extended arm are available.



**Monitor station(NS option)**

During neuro surgery operation, surgeon can check the image on the main monitor and the auxiliary IONM(Intraoperative Neuro Monitoring) next to the main 3D monitor simultaneously to monitor AEP, SEP, VEP, MEP, EMG, EEG and vital sign.



**3D Auxiliary monitor**

Separate monitor allows surgeons and assistants to share surgical images from different directions.

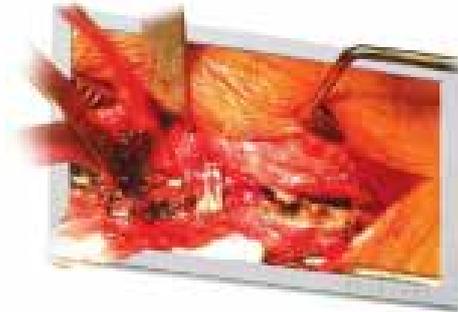
Brain Neuro Navigation can also be connected next to the main monitor so that surgeons can monitor surgical areas as well as reference areas by looking at various monitors in the same direction.

This combined system can also be connected to multiple monitors for assisting staff to increase efficiency in the operating room.

►► Applications:



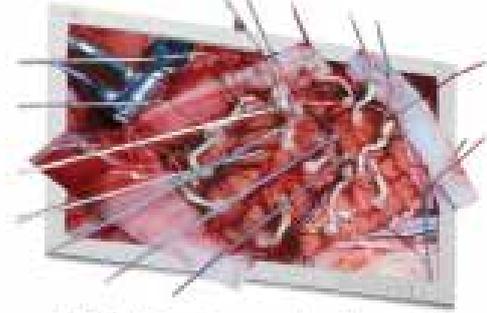
ENT(Otitis media)



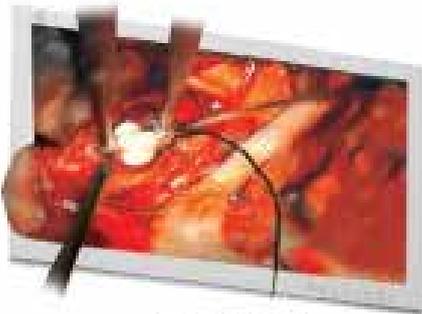
Spine(Lumbar)



Spine(Cervical rib)



Brain(Cerebrovascular diseases)



Brain(Tumor)



Micro Surgery



Vascular Surgery



Hair Transplantation



OPH(Cataract)

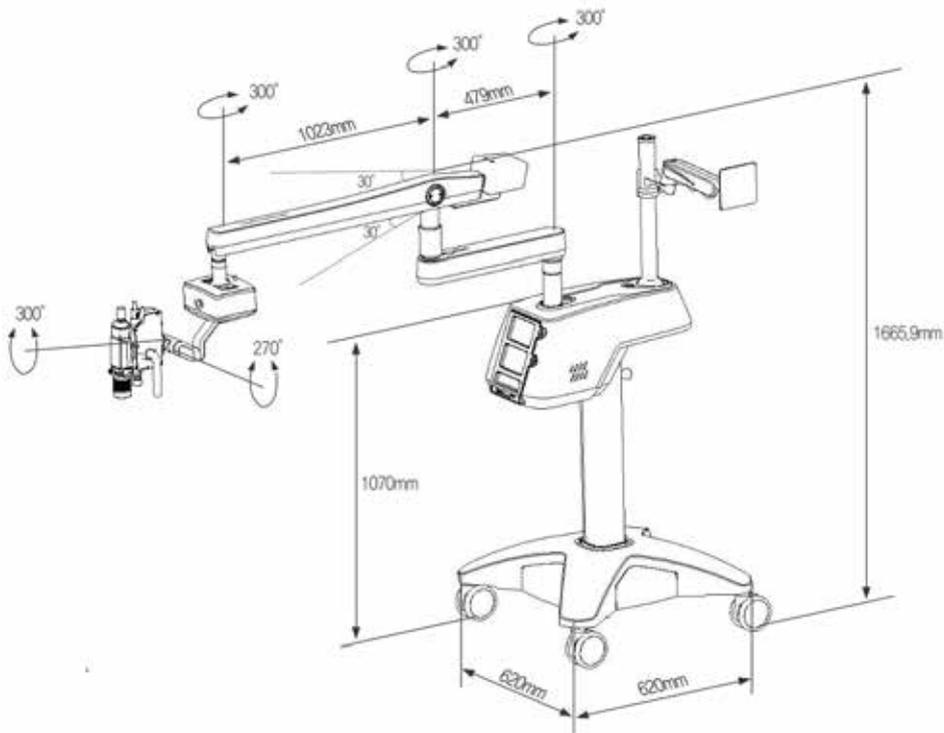


Oral and Maxillofacial

►► Applications:



►► **Technical Data:**



<b>Dimension</b>	300mm(W) x 600mm(D) x 250mm(H)
<b>Weight</b>	90 kg
<b>Power</b>	100-240VAC / 50-60Hz
<b>CCU</b>	3D Muxing format : side by side Binocular digital zoom control: 1.0x~3.0x (Step 0.1x)
<b>Recorder</b>	Still capture method : JPG(1920 x 1080) file extension(.jpg) Video compression method : MPEG 4/ H.264 file extension(.AVI) Media storage : SDHC / USB memory stick
<b>Light source</b>	White LED with UV cut filter Intensity : Adjustable
<b>X, Y, Z range</b>	X : 80mm, Y : 50mm, Z : 50mm

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

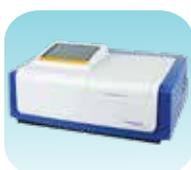
**Instruments** :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



## About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufacturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

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Liquid Particle  
Counter



Optical Emission  
Spectrophotometer



DSC/TGA



Semi Auto Bio  
Chemistry Analyzer



HEMA 2062  
Hematology  
Analyzer



Micro Plate  
Reader/Washer



URINOVA 2800  
Urine Analyzer



Total Organic  
Carbon 3800



Fully Automated  
CLIA



NOVA-2100  
Chemistry Analyzer



PCR/Gradient PCR/  
RTPCR



TOC  
Analyzer



Laser Particle  
Size Analyzer



Ion Chromatograph



Water purification  
system

## Regulatory compliances



## Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



# Analytical Foundation

1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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