

OSM - 3900

Ophthalmic surgical microscope



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

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

Enjoy high optical visualization with ATL's microscope ATL OSM-3900 for ophthalmology and hand surgery. It allows superior judgment and treatment with best depth perception and 3-dimensional vision due to its 25 mm stereo base.

The microscope's integrated display gives instant feedback on all important settings. By a single glance you find information on the positions of focus, zoom, and X-Y coupling as well as the level of illumination. To maximize the freedom of positioning the microscope, an inclination mechanism has been integrated ranging from -70° to +90°. Fine adjustments can be made in sterile manner during surgery.

In the variation ATL OSM-3900A NIR, the microscope is ready for intraoperative OCT . Live scans on the eye's anterior or posterior segment support a number of procedures and ensure surgical outcome.

Modularity – this key word describes the accessory structure of the ATL OSM-3900. On demand, the ophthalmoscopic system EIBOS 2 as well as the TOCULAR can be added. Standard accessories are available like observers, cameras, a recording system, a keratoscope, a motorized slit lamp, a depth-of-field diaphragm, and foot switches.

For the carrying system also various options, including the choice of illumination (halogen and LED), arise. Take advantage of this modularity for optimal patient care, cost efficiency and fast return on investment.



►► **Better vision – The key to higher precision:**

Precision optics and optical systems have been developed and manufactured in our German production facility since 1864. We work according to an elaborated and certified quality process, and the assurance of our optics exceeds the requirements of the relevant ISO standards. A perfect example of the product's optical quality is the large depth of field achieved by ATL OSM-3900. It limits focusing procedures to a minimum. For further increase of this effect especially in high magnification a Double Iris Diaphragm can be added. Looking through the oculars of the microscope ATL OSM-3900 will tell you more than a thousand words could.

►► **C.RED 3900**

The microscope's integrated red reflex enhancer is especially designed to clearly show all details during capsulorhexis and polishing of the capsular bag. For light hazard protection even at low illumination levels a bright reflex is visible. The red reflex enhancer can be individually adjusted to always achieve a perfect red glow as well as switched off for corneal surgery.



►► **ATL OSM-3900A**

ATL OSM-3900A offers the assistant full stereoscopic vision. The 0° assistant scope with its 12.5x oculars has its own magnification changer (5 steps) and focusing device allowing both surgeons independently to select the focal plane and magnification. It easily swivels laterally and, for relaxed working, the eyepiece head may be inclined and rotated into the most comfortable position.



►► **Accessories Optional equipment:**

►► **Fundus observation with integrated inverter - EIBOS 2**

Important for vitreoretinal surgery is the non-contact wide angle ophthalmoscope EIBOS2. Covered with a sterile drape, it is flipped down for the operation. The focus mechanism and the inverter are integrated. As a standard ATL OSM-3900 has an integrated slit illumination. This can be applied very effectively through the EIBOS 2 in the starting phase of a vitrectomy for better vision of the vitreous.



EIBOS 2

►► Precise angle alignment of toric IOLs - TOCULAR

TOCULAR is a rotatable wide angle ocular with an integrated reticle. This can be rotated manually via a sterilizable knob to precisely adjust the implantation angle for alignment of toric IOLs.



TOCULAR

►► Keratometry with ring lights - KERATOSCOPE

To examine the curvature of the cornea, the KERATOSCOPE can be attached to the microscope. A fixation light for the patient supports correct usage.



KERATOSCOPE

►► C.DUO - Usage for plastic hand surgery

The C.DUO offers face-to-face observation for two surgeons in plastic hand surgery, lateral ports, and a separate camera connection for c-mount cameras.



C.DUO

►► Ergonomic control - EF 5000 AND EF 5001

For most ergonomic control of the microscope ATL recommends its newly designed corrosion-proof foot switches. While EF 5000 is connected to the floor stand via cable, EF 5001 controls 14 functions of the microscope wireless via Bluetooth.



EF 5000 AND EF 5001

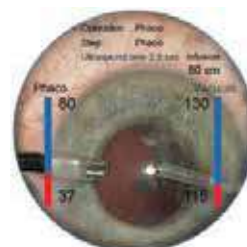
►► Imaging possibilities Observe and document:

►► Enrich your vision - C.INJECT 3900

The image injection system C.INJECT 3900 provides additional information as intra-operative OCT scans or phaco settings at a glance. Data is injected in exceptional resolution binocularly.

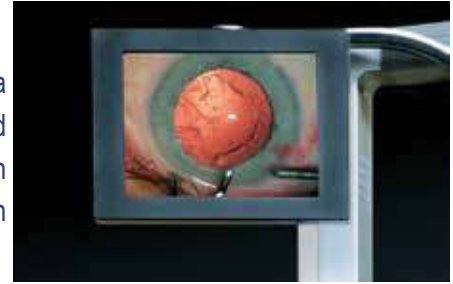


C.INJECT 900



►► Microscope mounted display - M.DIS

The M.DIS (Microscope Display) turns the operating microscope into a microsurgical image control center. The high-resolution screen, mounted close to the eyepiece, provides images or data for the surgeon which she/he may see by momentarily looking up from the eyepiece. The touch screen allows numerous functions to be controlled.



M.DIS

►► Comprehensive yet intuitive recording - ATL MIOS 5

MIOS stands for Microscope Imaging and Operation System. Its prime functions are the recording of operation scenes as well as the capturing and recording of snapshots, together with proper identification of patient and hospital data. Images and video streams can be stored on DVD-R/-RW, HDD, USB flash drive, and external USB hard disk drive or transmitted to the hospital PACS via DICOM.

The image data can also be edited for presentations with the optional module M.AED. When the snapshot button is pressed, a sequence of the video stream is marked. In the archive, all saved video sequences are merged into one video.



HS MIOS 5

►► Compact HD camera and display - C.MOR HD AND C.MON HD

C.MOR HD is a full HD color video camera designed for the ATL microscope. Its ultra-compact camera head houses a 1/3" CMOS sensor that meets very high standards. With a resolution of 900 TV lines and an S/N ratio of 50 dB, images are crisp and sharp. Different user settings allow individual adjustments.

With its flat design and 21.5" size, the brilliant HD monitor C.MON HD can easily be attached to the microscope's floor stand. Its touch function can be operated even with medical gloves. Due to the planar screen and glass surface, it can be disinfected easily. For the safety of the system, C.MON HD is fully approved for medical use.



C.MOR HD



C.MON HD

►► Floor stands More than just carrying systems:

►► Mechanical solutions

The floor stands FS 2-11 (halogen) and FS 2-15 (LED) are equipped with newly designed mechanical brakes, which are preadjusted in the factory for free-floating movements as well as for stable working positions. The light source is mounted externally for easy access. A tray to carry a camera control unit may be attached to the column.



ATL OSM-3900 with M.DIS
on floor stand FS 2-11 / FS 2-15

►► High-tech solutions

Electromagnetic brakes in the floor stands FS 2-21 (halogen) and FS 2-25 (LED) support the smooth movements of ATL OSM-3900. A holder for a foot switch can be mounted directly to the column as can trays for camera control units or other equipment. The front side accepts a high-resolution monitor (optional).

The system is computer-controlled with a graphic display for programming the individual start settings of the operating surgeons and the surgical procedures. The microscope parameters, brightness, and the carrying weight of the articulated arm are also adjustable and controlled on the graphic display.

The shape and internal reinforcements of the column make the floor stands extremely stable against vibrations. The cables are inside a cable duct. A plastic surface protects the base of the floor stand against corrosive liquids.



ATL OSM-3900A
on floor stand FS 2-25

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.

Our Products & Technologies



UV/VIS
Spectro 2080+
Double Beam



Infra FTIR



Optima Gas
Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
Chromatograph



Atomic Absorption
Spectrophotometer



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

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 @



 **Analytical**®
Technologies Limited

HPLC Solutions MultipleLabs Analytical Bio-Med Analytical Distributors Analytical Foundation (Trust)

Corporate & Regd. Office:
Analytical House, # E67 & E68,
Ravi Park, Vasna Road, Baroda,
Gujarat 390 015. INDIA

T: +91 265 2253620
+91 265 2252839
+91 265 2252370
F: +91 265 2254395

E: info@hplctechnologies.com
info@multiplelabs.com
info@analyticalgroup.net
info@analyticalbiomed.com

W. www.analyticalgroup.net
www.hplctechnologies.com
www.multiplelabs.com
www.ais-india.com

Sales & Support Offices:
across the country :
Distributors & Channel
partners World Wide