

OSM - 3090

Ophthalmic surgical microscope



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

Analytical Technologies Limited

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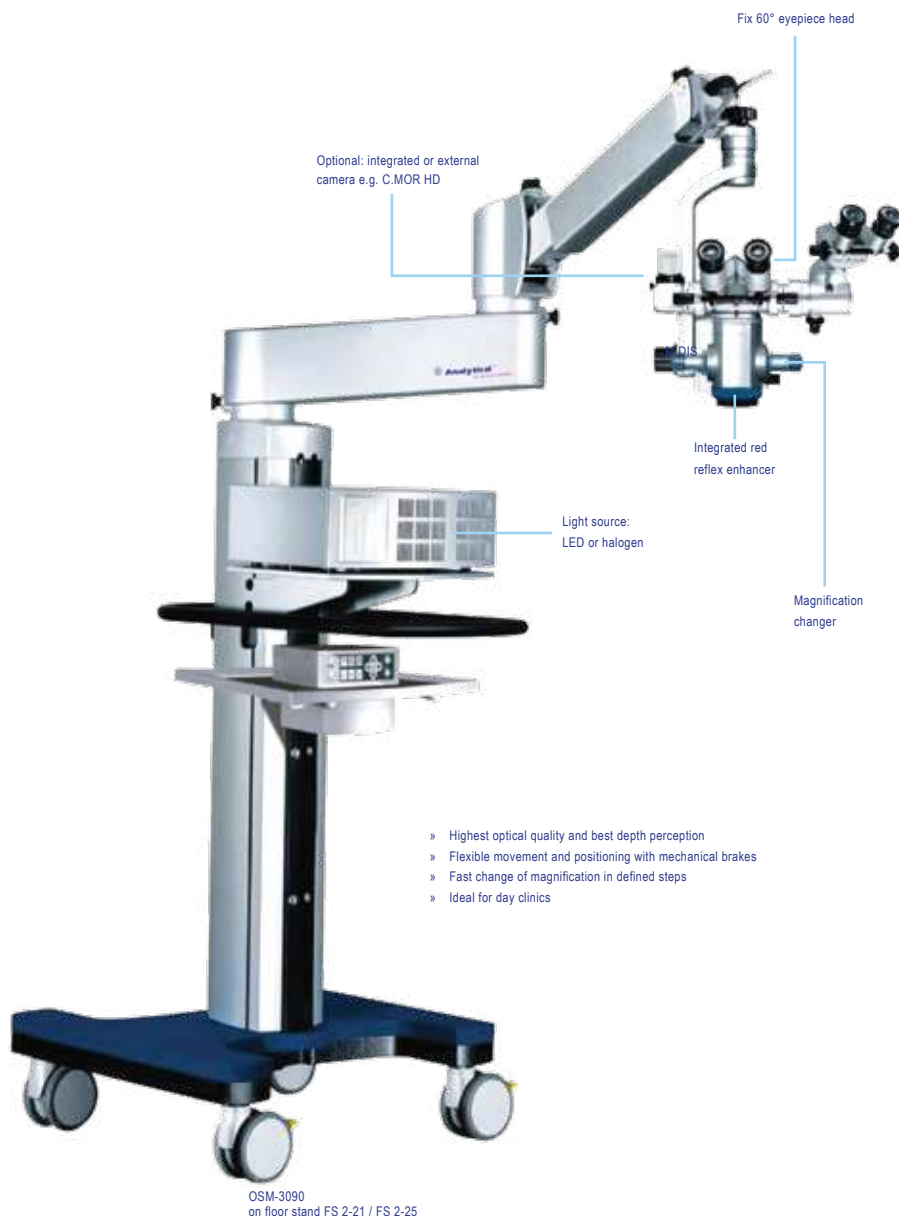
OSM-3090 is optimized for surgical procedures in day clinics, surgical centers, and hospitals, where speed and flexibility are decisive factors. It is mainly recommended to be used for ophthalmic surgery and small ENT procedures and examinations.

The apochromatic optics provides sharp and contrasty images at any magnification. The large stereo base of 25 mm results in an exceptional depth perception.

Factory-preadjusted mechanical brakes provide extremely high movability of the microscope and safe stability in the working position.

OSM-3090 contains a 5 step magnification changer.

An X-Y coupling is helpful for horizontal tracking during ophthalmic surgery and is a focusing aid for ENT procedures. It is optionally available. OSM-3090 is equipped with a 200 mm front lens, but objective lenses of 175 mm to 400 mm focal lengths may be chosen.



►► Optics, light & accessories:

For ophthalmic procedures a 60° eyepiece head allows a stressfree and ergonomic working position of the surgeon. An integrated red reflex enhancer provides ideal recognition of the capsula in cataract surgery.

By removing the 60° adapter from the eyepiece head, you will have a 0° eyepiece head, required for ENT procedures. This 0° eyepiece head and the microscope inclination angles of -8° to +100° allow optimal illumination and recognition of deep cavities and small canals in the ear.

For higher flexibility OSM-3090 is also available with a 160° inclinable eyepiece head. This can be equipped with a special ocular, the TOCULAR, for intraoperative alignment of toric IOLs. A keratoscope for axis determination of astigmatism as well as the non-contact wide-angle ophthalmoscope OSM-3090, also ATL SURGICAL products, are easily adaptable.

For coobservation ATL SURGICAL offers a stereo scopic observer scope. Furthermore, the high-resolution monitor M.DIS can be mounted to the microscope arm. The balance of the microscope will not be affected by moving the monitor during operation. M.DIS, equipped with a touch screen, allows viewing and controlling of video recordings and snapshots during the operation.

Optionally, integrated or externally mounted video cameras, like ATL SURGICAL's C.MOR HD, are available.



60° eyepiece head



in ENT position



TOCULAR

►► INTRAOPERATIVE LIGHT MANAGEMENT:

OSM-3090 contains a filter disk for daylight, softlight, UV protection (yellow filter), blue light (excitation of fluorescence), and green light (better recognition of blood vessels). In addition, two spot diaphragms are integrated against glare.



Turning knob for the filter disk



OSM-3090



KERATOSCOPE

►► C.MOR HD:

C.MOR HD is a full HD color video camera designed for the ATL SURGICAL 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 500 dB images are crisp and sharp. Different user settings allow for individual adjustments.



►► C.MON HD:

With its flat design and the size of 21.5" 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.



►► HS MIOS:

MIOS stands for Microscope Imaging and Operation System. Its prime functions are recording of operation scenes, capturing and recording of snapshots, together with proper identification of patients' 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.



►► ALLOWING FULL MODULARITY:

The floor stands FS 3011 (halogen) and FS 3015 (LED) are equipped with newly designed mechanical brakes, which are factory-preadjusted securing free-floating movements as well as stable working positions. For easy access the light source is mounted externally. A tray (with transformer) to carry a camera control unit may be fixed to the column.

►► SPACE SAVING SOLUTION:

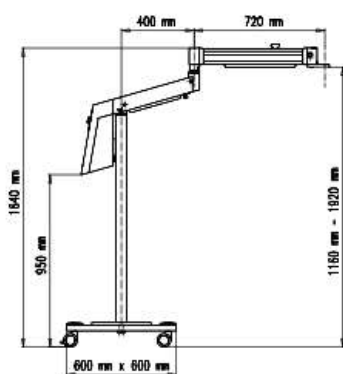
If only little space is available in the operating room, the floor stand FS 3012, with mechanical brakes, a 150 W halogen light source and switchable backup lamp, is recommended in conjunction with the microscope OSM-3090.



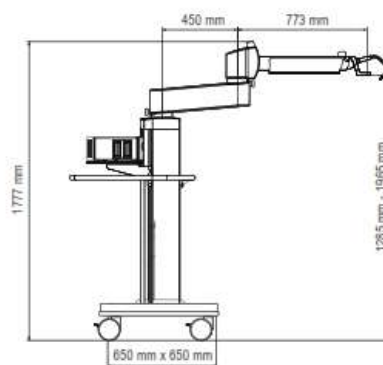
OSM-3090
on floor stand FS 3012

►► Technical Data:

Optics:	apochromatic
Stereo base:	25 mm
Focusing:	-30 mm to +20 mm
Working distance, standard:	200 mm
Manual magnification changer:	5 steps, 3.3x to 30.3x
Diameter of the visual field:	7.0 mm to 64.0 mm
Illuminated field:	3 mm to 60 mm
Eyepiece head (12.5x oculars):	fix, 60° (consisting of 60° adapter and 0° eyepiece head)
Diopter settings:	-7 D to +7 D
Inclination angles:	-8° to +100°
X-Y coupling (optionally):	60 mm x 60 mm
Brakes:	mechanical
Filter disk:	2 diaphragms, 5 filters
Weight (without accessories and X-Y coupling):	5.0 kg



Floor stand
FS 3012



Floor stand
FS 3011 / FS 3015

Floor stands	FS 3012	FS 3011	FS 3015
Arm reach (max.):	1120 mm	1223 mm	
Swivel area:	2 x 360°	2 x 300°	
Door height:	1640 mm	1777 mm	
Floor stand carriage:	600 mm x 600 mm	650 mm x 650 mm	
Carrying capacity:	4.5 kg to 9.0 kg	4.0 kg to 15.0 kg	
Brakes:	mechanical	mechanical, preadjusted	
Balancing:	mechanical		
Height at oculars:	839 mm to 1599 mm	964 mm to 1644 mm	
Illumination:	2 x 150 W halogen	2 x 150 W halogen	2 x 50 W LED
Protection filter:	UV, IR		
Operating voltage:	100 VAC to 240 VAC		
Max. power consumption:	400 VA	600 VA	450 VA
Weight:	80 kg	198 kg	
Foot switch:	2 or 6 functions	2 or 6 functions	

Regulatory compliances



Corporate Social Responsibility

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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.

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