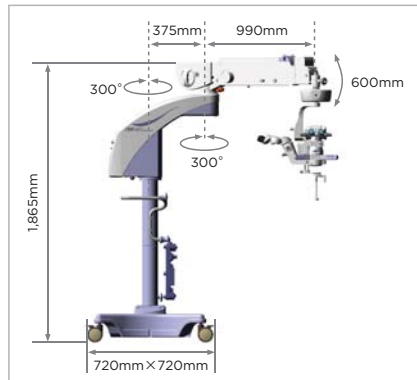


Specifications

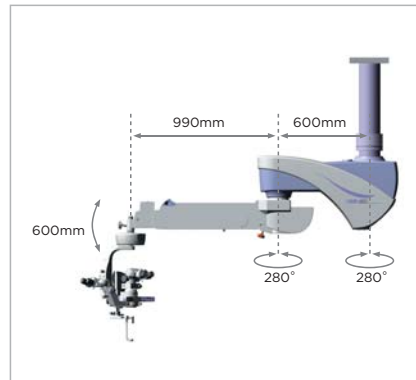
	OMS-800 OFFISS	OMS-800 Pro	OMS-800 Standard	OMS-850 OFFISS	OMS-850 Pro
	Floor Type			Ceiling Type	
Microscope type	Galileo type				
Magnification change type	Electric zoom continuous change				
Eyepiece (Eyepiece magnification)	12.5x				
Objective Lens	f=200mm				
Total magnification (x)	4.2/5/6/7/8/9/10/11/13/15/17/19/21				
Total Magnification	4.2x~21x				
1st arm length (Distance between shafts)	375mm			600mm	
1st arm rotation range	300°			280°	
2nd arm length (Distance between shafts)	990mm	875mm		990mm	
2nd arm rotation range	300°			280°	
2nd arm vertical movement range	600mm				
2nd arm mounting weight	6kg-18kg	9kg-21kg	6kg-18kg		
Power Suply	AV 100-120V, 220-240V 50/60Hz 280VA				
Dimensiions	720mm(W) × 720mm(D)			—	
Base (Base Unit)	1,865mm			—	
Base (Base Total Height)	—			1,800mm	
Lowest height of arm	250kg	247kg	244kg	226kg	223kg
Weight	4.8(4.4)* kg	6.0kg	6.9kg	4.8(4.4)* kg	6.0kg

* () DBS type

OMS-800 Dimensions



OMS-850 Dimensions



Photos Courtesy of: Professor Masayuki Horiguchi, MD Ophthalmology Department Fujita Health University
Associated Professor Kiyoshi Suzuma, MD Department of Ophthalmology and Visual Science, Graduate school of Biomedical scene, Nagoya University



*Subject to change in design and/or specifications without advanced notice.
In compliance with the terms of the Export Administration Regulation of the United States of America, this product may not be available in some regions or countries.

IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



TOPCON CORPORATION



TOPCON CORPORATION



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Operation Microscope

OMS-800/850

OFFISS / Pro / Standard (800)



TOPCON
CONNECTING VISIONS



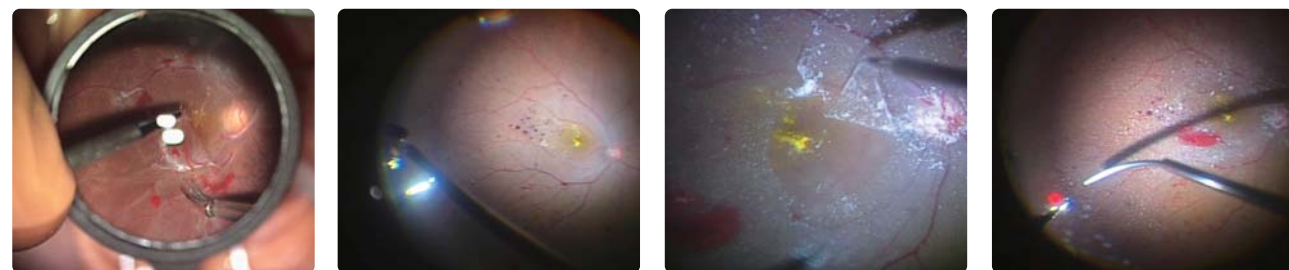
OMS-800 / 850

OFFISS / Pro / Standard (300)

Perfection for Professionals

Brilliant Wide Field

The OMS-800, known by its break-through technology, with the remarkable wide field lens expands the field view and allows the surgeon to visualize out as far as the Ora Serrata for vitreous retinal surgery, while maintaining a clear and precise observation of minute and subtle detail in the surgical field. Topcon, its pursuit for perfection, continues to develop the OMS-800 and OMS-850 range in order to make them even more user-friendly, consistent with the tradition of high quality standards within TOPCON that makes us the World Leader in Ophthalmic equipment.



TOPCON OFFISS LENS

OFFISS

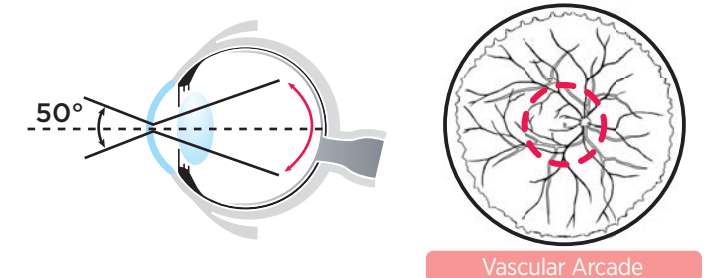
40D Lens (Outer Diameter φ 25) 80D Lens (Outer Diameter φ 17) 120D Lens (Outer Diameter φ 21) 120DS Lens (Outer Diameter φ 15.6)



TOPCON has developed a state-of-art observation system for vitrectomy procedures that does not require the use of fiber optic illumination. The TOPCON OFFISS system does not require the complicated operation at focus because a microscope head and front lens respectively move independently. The image inverter will perform automatically with/without use of the OFFISS, and the front lens can be replaced with simple operation, so this system contributes to improve for effective surgery. Also, the new front lens of 80D and 120DS will expands selection for each various needs. In addition, all lenses are now autoclavable so shorter sterilization time (about 5 min.) is required and save your maintenance time.

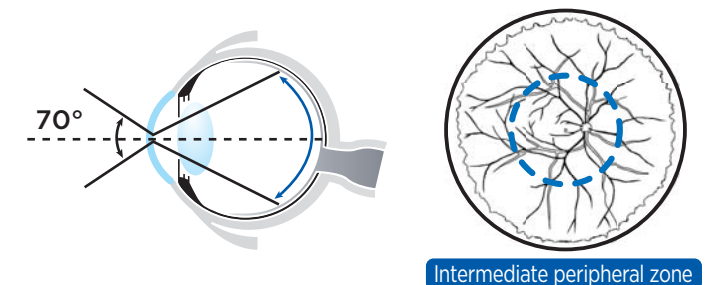
» 40D Lens

An excellent stereoscopic and a bright observation image can be obtained and are suitable for treatment of the posterior segment because the illumination of the microscope enable to observe without using fiber optic illumination, this means operator can perform surgery in bimanual with 40D front lens.



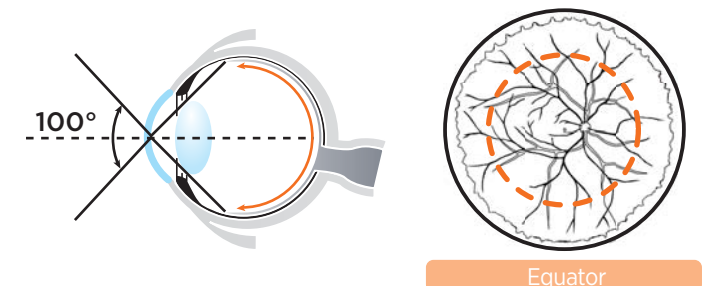
» 80D Lens

The observation from posterior segment to the intermediate peripheral zone of retina is possible. The combination with fiber optic illumination is also effective.



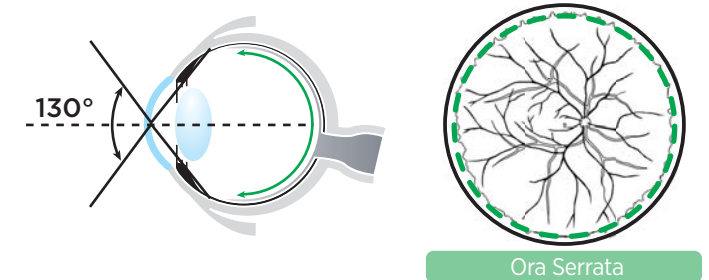
» 120DS Lens

The wide angle view observation is available as wide as about 100 degree (equator). The size of this lens becomes smaller and it does not interfere for operation with surgical devices. Under the air substitution, observation of picture angle approximately 130 degrees(Ora Serrata) is possible.



» 120D Lens

130 degrees wide-angle field view to the ora serrata is possible. It is useful for vitreous surgery or the photocoagulation of the central or peripheral zone. This lens is good for stereoscopic image and can use it under the air substitution and can perform the small incision vitreous surgery by using fiber optic illumination and wide-angle endoillumination together.





FOR CATARACT SURGERY

» Unparalleled image quality for cataract surgery

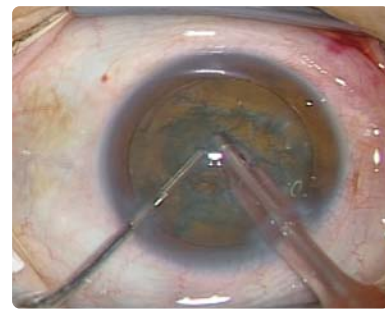
With the advancement of cataract surgery, including techniques such as phacoemulsification, increasing numbers of vitrectomy surgeons are performing simultaneous cataract and vitreous surgery. By adopting a three-direction illumination system, the OMS-800 provides an improved red-reflex and better shadow-contrast even in situations with low luminance.



CCC



Hydrodissection



PEA



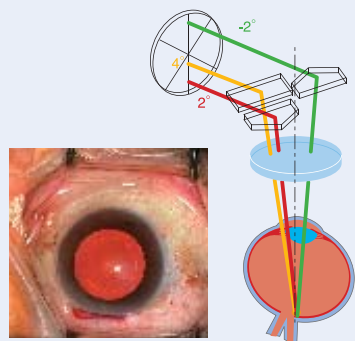
VARIOUS USEFUL ILLUMINATIONS

» Wide array of illumination angle

Three different types of illumination angles are available to meet any lighting needs during surgery. Each mode can be easily selected from the footswitch.

Fully Illuminated

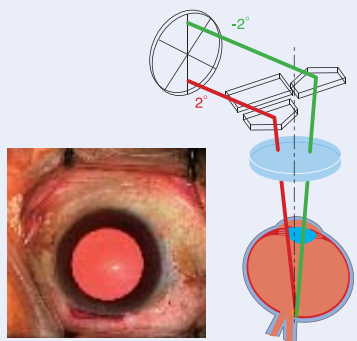
(+4°, +2°, -2°)



In this mode, the illumination, brightness, stereoscopic view and shadow contrast are perfectly balanced for superior observation clarity. The illumination is always convenient regardless of the position of the patient's eye.

Plus and Minus

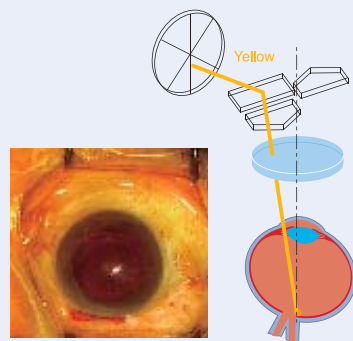
(-2°, +2°)



This illumination mode creates a good red-reflex, and is very useful in anterior capsulotomy.

Yellow Filter

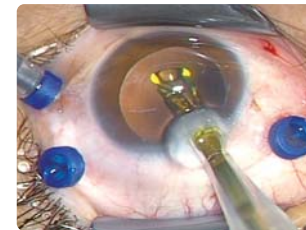
(+4°)



The combination of this illumination and yellow filter is of special advantage for preventing phototoxicity in long procedures.



SUPERIOR FUNCTIONALITY



Low illumination intensity enables clear observation, and leads to safer operations

Superbly designed optics allow adequate illumination using appropriate wave-length efficiency and eliminating harmful or unnecessary brightness. Low light intensity is also useful in preventing light-hazard. The incorporated IR cut filter also aids in the reduction of phototoxicity.



Comfortable operating position

The ergonomically designed optical head with built-in beam splitter allows the surgeon to maintain a comfortable posture throughout the surgery. A key component to this comfort is the variable angle binocular tubes that allow for the setting of a personal viewing from 45 to 90 degrees. The flexibility assures a comfortable operating position even when using OFFISS.

Dual motorized focusing mechanism*

A dual motorized focusing mechanism allows the optical head to be quickly elevated during surgery and then brought back to the working position without losing focus. This feature is particularly useful during IOL insertion and other procedures that momentarily require more space between the patient and the microscope.

Anti stain coating lens

OMS-800 employs anti-stain, water-shedding coating for its objective lens and eyepiece. The essential components remain clean and maintain its optical quality for longer time.

Easy illumination bulb exchange

The illumination bulb can be easily and immediately replaced by a rotating lever located in the lamp house. A warning lamp indicates when the spare lamp is burned out to insure always an operational bulb available.

Electromagnetic locking system*

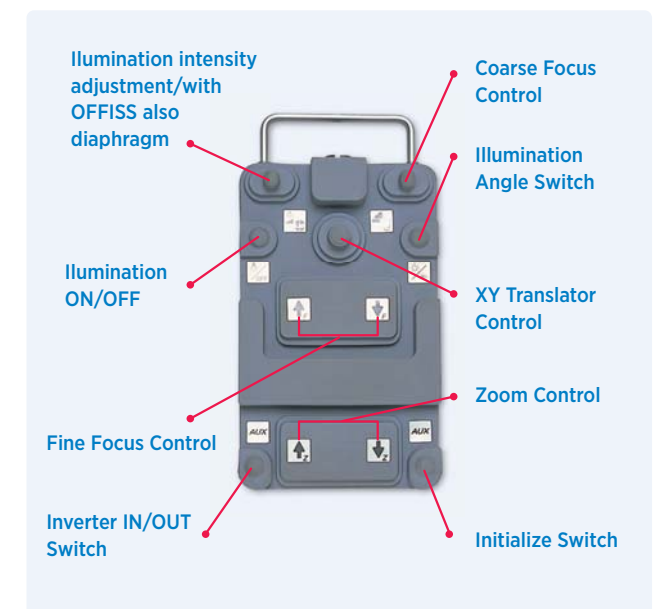
Reliable electromagnetic brakes enable the surgeon to quickly position the optical head during surgery. (OFFISS/Pro)

Increased working distance

OFFISS provides exceptional working distance between the 40D non-contact lens and the patient's eye.

Multifunction footswitch enhances operating efficiencies

The multi-function footswitch permits the surgeon to control almost all of the OMS-800 functions without having to remove their hands from the operative field. Without any hand movement, the surgeon can alter the illumination intensity, zoom magnification, focus, illumination angle selection and X-V-positioning. On conventional microscopes, many of these functions have to be done by assistants. The layout of the controls on the footswitch is conveniently arranged in the most popular positions.



* Refer to a component list to describe subsequently.



OPTIONAL ACCESSORIES



OMS-800 / 850 LINE UP



Front lens set

Standard components includes; front lens holder, anterior segment observation lens, 40D, 80D, 120D, and 120DS with sterilizable box each.

* Each front lens can be ordered separately.



Coaxial assistant microscopes

The assistant microscope provides the viewer with bright, crisp images. The angle of the binocular eyepieces is adjustable from 45 to 90 degrees, offering the assisting surgeon a comfortable viewing angle. In addition, separate focus adjustment is possible for assistant surgeon.



TV relay lens

The TV relay lens permits the attachment of a CCD camera that is useful for documentation and educational presentations. The relay lens allows the most popular 1/2 Inch & 1/3 Inch CCD cameras with either a C-mount or bayonet mount to be connected to the OMS-800.



Slit Illuminator

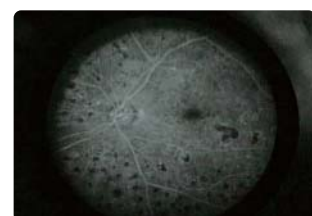
This is the new, essential illumination device for corneal surgery, with extremely thin 50µm slit. This is also effective to observe corneal and anterior chamber depth condition after cataract surgery.

* MicroSlit may attach to the other manufacture's surgical microscopes. Please ask Topcon representative for attachable ones

Intraoperative fluorescein observation

Intraoperative fluorescein observation is possible by attaching FAG filter unit in OMS-800 OFFISS. With this technique, even eyes that have not been studied pre-operatively, can be examined during the procedure and its post-surgical status.

* available with OMS-800/850 OFFISS only.



OMS-800 OFFISS

OFFISS offers a New Scope of Possibilities in Intravitreal Surgery. Equipped with the OFFISS front lens mechanism, electromagnetic brakes and sophisticated electronics, this model is the highest standard for intra vitreal surgery, as well as other ophthalmic procedures.



OMS-800 Pro

Electromagnetic brakes and sophisticated electronics confer the OMS-800 Pro the flexibility to perform virtually any type of ophthalmologic surgical procedures.

OMS-800 Standard

Equipped with most of the state-of-the-art features of the 800 line, the OMS-800 Standard answers the need for a simpler, easy to use operation microscope. Manual brakes and ease of mobility make the OMS-800 an affordable yet advanced unit for all ophthalmic uses.



OMS-850 OFFISS / Pro

The ceiling model OMS-850 enables to utilize the operation theater floor efficiently. A cable pole is included as standard components so that several cables from TV or operation equipment could be corded neatly.

OMS-800 OFFISS/850 OFFISS DBS

The DBS system is the model of the double beam splitter. by switching the lever, the beam will be split by 80/20 or 50/50. When 50/50 is selected, TV camera will receive clearer images making this mode useful for documentations and education.

Components

	OMS-800 OFFISS	OMS-800 OFFISS DBS	OMS-800 Pro	OMS-800 Standard	OMS-850 OFFISS	OMS-850 OFFISS DBS	OMS-850 Pro
OFFISS	○	○	—	—	○	○	—
Electromagnetic locking	○	○	○	—	○	○	○
Dual focus system	○	○	○	—	○	○	○
Inverter	○	○	—	—	○	○	—
Apochromat	○	○	○	○	○	○	○
Beam splitter	○	—	○	○	○	—	○
Double beam splitter	—	○	—	—	—	○	—
Illumination angle	Full Illumination (±2°, +4°) / ±2° / Yellow Filter (+4°)						