OMS-90
Operation Microscope
An innovative concept providing optimal observation and versatile operation

OMS-90 Operation Microscope

Features
The following unique features are incorporated in the OMS-90 Operation Microscope:
- Coaxial illumination
- Stain-proof coated objective lens
- Parallel binocular tube
- PD adjustment knob
- Built in yellow filter
- Compact base

Coaxial illumination
The designed illumination system of the OMS-90 assures the finest optical performance. The optical system has been fitted with an innovative design that allows the surgeon to view a sharper image, with more clarity than ever before.

The illumination system of the OMS-90 produces a superior red-reflex image for assistance in surgical procedures. As shown in the diagram, the innovative system design merges two improved field of views to produce an enhanced red-reflex and unparalleled image quality.

Stain-proof coated objective lens (F=200 mm)
The stain-proof coating is applied to help retain a clear viewing area. The focal length (F=200 mm) provides the standardized comfortable working distance.

Parallel binocular tube
The parallel binocular tube provides a natural stereo-scopic view.

PD adjustment knob
The built in PD adjustment feature offers easy alignment.
**Built in yellow filter**
The flip in/out yellow filter is built into the system to allow full protection against retina phototoxicity.

**Compact base**
The sturdy and compact Ø740 mm (30 inch) base is designed for optimal use of limited operating room floor space.

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**Optional accessories**

**X-Y Translator**
The X-Y translator adapter provides precise movement around the surgical field. A one touch recentering button is provided.

**Assistant’s microscope**
The parallel binocular assistant’s microscope provides easy positioning, a wide field of view and 30° of rotation.

**Oblique illuminator**
The oblique illuminator offers a supplemental light source for indirect illumination. The slit will rotate 30° and adjust from 0 to 20 mm in width.

**Beam splitter (80/20 or 50/50)**
An 80/20 or a 50/50 beam splitter is available for the attachment of documentation devices.

**Accessory adapter model 2**
The accessory adapter is required to attach the assistant’s microscope and/or the oblique illuminator to the OMS-90.

**½ TV attachment**
The ½ TV attachment incorporates a built in beam splitter and lets the user connect a ½ inch C-mount camera to the OMS-90.
Specifications

Table title

Binocular tube
Parallel 45° inclined binocular tube

Objective lens
F=200 mm

Eyepieces
12.5x

Magnification change type
Drum type with 5 changes

Total magnification
3.4x, 5.3x, 8.5x, 13.6x, 21.2x

Field of view
Ø66.3 mm, Ø42.3 mm, Ø26.3 mm, Ø17.1 mm, Ø10.3 mm

X-Y Translator (option)
Range: ±25 mm

Light source
12V 100W halogen lamp (light guided system) (one touch changeable two lamps)

Filter

Length
1st arm: 400 mm; 2nd arm: 560 mm

Rotational angle
1st arm: 360°; 2nd arm: 300°

Base dimensions
Ø740 mm (30 inch)

Primary voltage
AC100~120V or AC220~240V

Power frequency
50/60Hz

Maximum power consumption
280VA

Weight
97 kg

Optional accessories
- X-Y translator
- Accessory adapter model 2
- Assistant’s microscope
- Oblique illuminator
- ½ TV attachment
- Beam splitter (80/20)
- Beam splitter (50/50)

Standard accessories

Subject to change in design and/or specifications without advanced notice.
In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

Medical device Class I. Manufacturer: Topcon Corporation.