

OPERATION MICROSCOPE  
**OVS-90**



# An innovative concept providing optimal observation and versatile operation

The following unique features are incorporated in the new OMS-90 Operation Microscope:

**New Coaxial Illumination**

**Stain-proof Coated Objective Lens**

**Parallel Binocular Tube**

**PD Adjustment Knob**

**Built-in Yellow Filter**

**Compact Base**

# OMS-90

## OPERATION MICROSCOPE

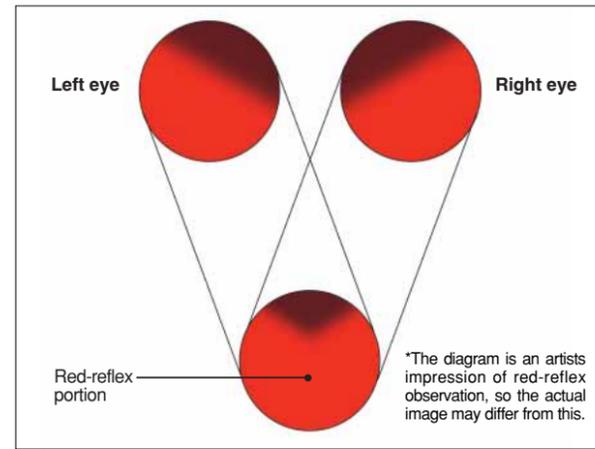


\*The above photo contains optional accessories.

### Features

#### ● New Coaxial Illumination

The newly designed illumination system of the OMS-90 assures the finest optical performance. The optical system has been fitted with a new and 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 unparallelled image quality.

#### ● Stain-proof Coated Objective Lens (F=200mm)

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

#### ● Parallel Binocular Tube

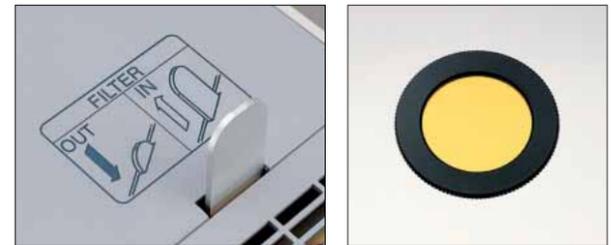
The parallel binocular tube provides a natural stereoscopic view.

#### ● 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.

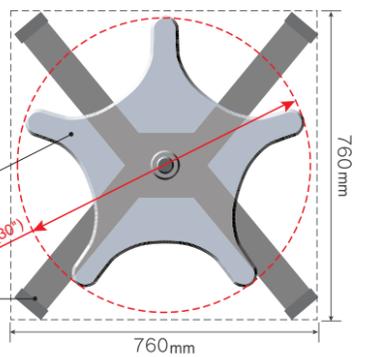


#### ● Compact Base

The new sturdy and compact  $\phi 740\text{mm}$  (30") base is designed for optimal use of limited operating room floor space.

OMS-90

Previous model



### Optional Accessories

#### ■ X-Y Translator

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



#### ■ Oblique Illuminator

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



#### ■ Assistant's Microscope

The parallel binocular assistant's microscope provides easy positioning, a wide field of view and 30 degrees of rotation.



#### ■ Accessory Adapter Model 2

The accessory adapter is required to attach the assistant's microscope and/or the oblique illuminator to the OMS-90.

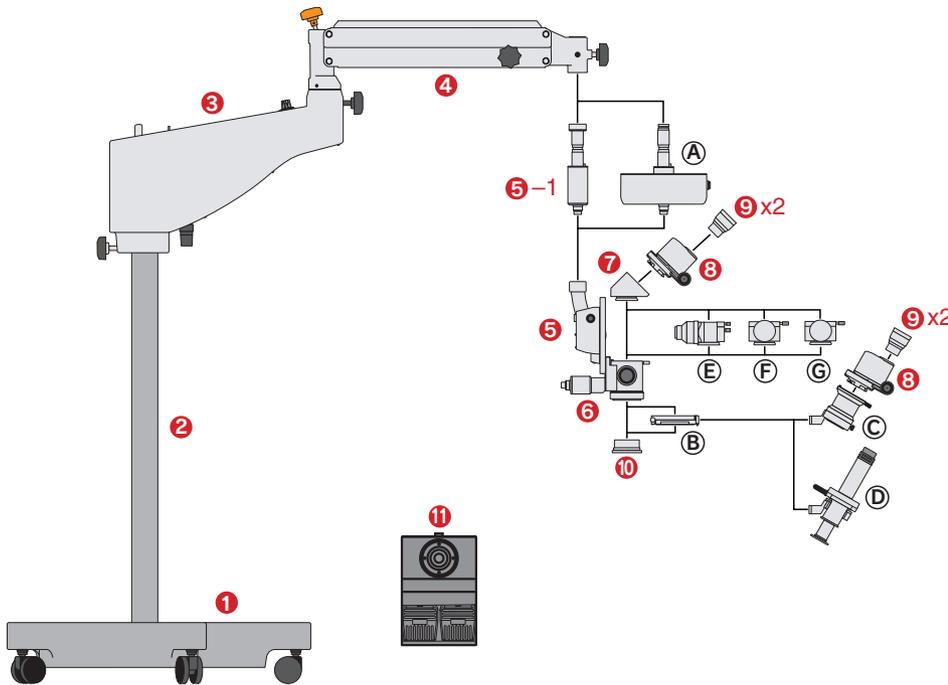
#### ■ 1/2 TV Attachment

The 1/2 TV attachment incorporates a built-in beam splitter and lets the user connect a 1/2 inch C-mount camera to the OMS-90.

#### ■ Beam Splitter (80/20 or 50/50)

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

## System Chart



- ①----- Base
- ②----- Column
- ③----- 1st Arm
- ④----- 2nd Arm
- ⑤----- Focusing Unit
- ⑤-1----- Joint Arm
- ⑥----- Microscope Body
- ⑦----- 45° Inclined Adapter
- ⑧----- Parallel Binocular Tube
- ⑨----- 12.5X Eyepiece
- ⑩----- F=200mm Objective Lens
- ⑪----- Foot Switch

### < Optional Accessories >

- Ⓐ----- X-Y Translator
- Ⓑ----- Accessory Adapter Model 2
- Ⓒ----- Assistant's Microscope
- Ⓓ----- Oblique Illuminator
- Ⓔ----- 1/2 TV Attachment
- Ⓕ----- Beam Splitter(80/20)
- Ⓖ----- Beam Splitter(50/50)

## Specifications

### Main microscope

<b>Binocular tube</b>	Parallel 45° inclined binocular tube
<b>Objective lens</b>	F=200mm
<b>Eyepieces</b>	12.5x
<b>Magnification change type</b>	Drum type with 5 changes
<b>Total magnification</b>	3.4x, 5.3x, 8.5x, 13.6x, 21.2x
<b>Field of view</b>	φ 66.3, φ 42.3, φ 26.3, φ 17.1, φ 10.3 mm
<b>X-Y Translator (option)</b>	Range:±25mm

### Illumination

<b>Light source</b>	12V 100W halogen lamp (light guided system) (one-touch changeable two lamps)
<b>Filter</b>	Built-in:Heat-absorbing and UV cut filters Flip-in/out :Yellow filter

### Arm(counter-balanced)

<b>Length</b>	1st arm:400mm; 2nd arm:560mm
<b>Rotational angle</b>	1st arm:360°; 2nd arm:300°

### Column base

<b>Base dimension</b>	φ 740mm (30")
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### Power unit

<b>Primary voltage</b>	AC100~120V or AC220~240V
<b>Power frequency</b>	50/60Hz
<b>Maximum power consumption</b>	280VA

### Weight

<b>Weight</b>	97kg
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\*Subject to change in design  
and/or specifications  
without advanced notice.

#### IMPORTANT

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