

Operating Microscopes - OM-5

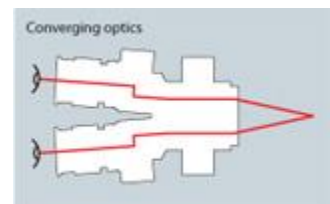


Easy installation, easy adjustment, affordable price are important. We however, cannot compromise quality, reliability, flexibility and serviceability. Takagi's OM-5 Operating Microscope meets these requirements after taking all customer feedback into consideration. Simple and affordable with many options to meet your optical requirements! MODEL OM-5 Operating Microscope that has been produced for ophthalmology, however, it is most suitable for surgical treatment and it is sufficiently adaptable to be used in the operating room.

1

Fusing image facility

With use of the converging optics with visual axis slanted by 6 degrees inward, the fusing image has been made feasible for a doctor claimed for diplopia so far and even for a beginner for microscope. It has become suitable eye positioning for operation.



2

High resolution and three magnification changes

The drum type magnification changing system enables a high resolution for total magnifications of 4.6x, 7.7x and 12.3x and furthermore the dial type P.D. adjustment mechanism, that is firstly available on this grade of microscope, a reasonable operating circumstances are permissible.



3

Motor driven focusing mechanism

By aid of foot switch operation, a maximum of 30mm focusing adjustable by motor driven focusing mechanism so it can be made just focus to the portion desirable to see.



4

The original balance arm mechanism

Taking advantage of the original balance arm mechanism extending up to the maximum stroke of 400mm, the operation microscope can be moved the most suitable position with Zoom and movable fixture smoothly and coordinating by manual operation to any optional establishment and quickly adjustable for arm balancing adjustment.



5

Cold light coaxial illumination

Cold light coaxial illumination with a high intensity 150W halogen lamp and light guide is adopted. Not only the coaxial illumination on the main, even the slit illumination to establish the optional illumination is adjustable steplessly up to its most suitable brightness.



Cobalt blue and green (red-free) filters are built-in.

Thanks to its built-in spare lamp unit even when the lamp bulb in use is burnt out, it can be replaced swiftly.

6

Wide array of optional components



TV camera adaptor



Straight binocular tube



Slit illuminator



Oblique illuminator



Assistant's binocular microscope

*When the TV camera adaptor is installed, a Beam splitter is separately required.

*When the slit illuminator, oblique illuminator or assistant's binocular microscope is installed, an Adaptor ring is separately required.

Major Specifications

Microscope	Magnification changer	3-step manual type
	Objective	F=175mm
	Eyepieces	12.5x
	Binoculars	45-degree binocular with converting optics
	Total magnifications	4.6x, 7.7x, 12.3x
	Real field of view	Ø43.5mm, Ø26mm, Ø16.3mm
	Focusing stroke	30mm
Illumination	System	Cold light coaxial illumination by fibre light guide
	Light source	15V 150W halogen lamp
	Field of illumination	Ø45mm
	Illumination	Continuous adjustment

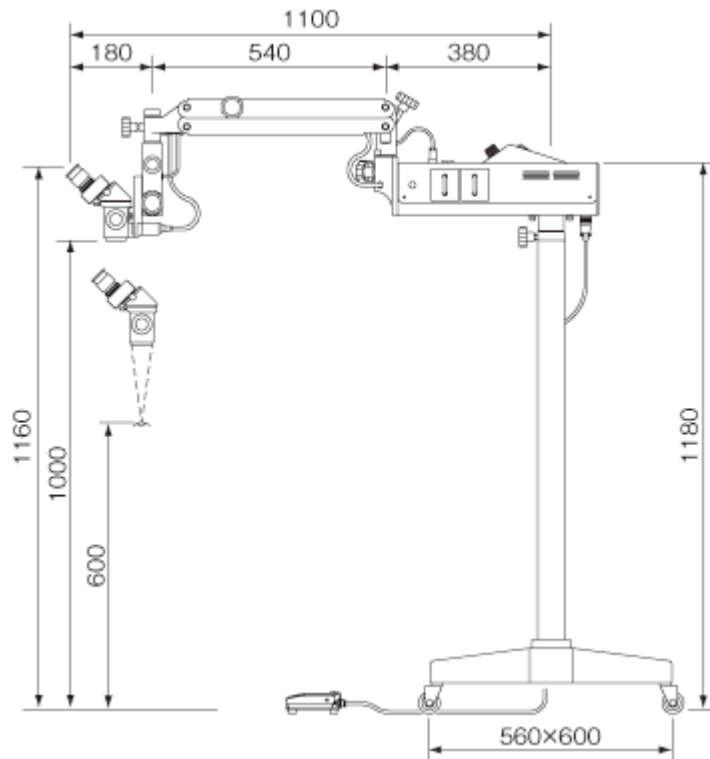
	control	
	Filters	Heat-absorbing, cobalt blue and green
	Mount	Floor stand
Arm, base	Maximum arm extension	1100mm
	Arm vertical stroke	400mm
	Base size	560mm × 600mm
	Weight	60kg
Others	Power consumption	220VA
	Power supply	AC120V, AC230V ; 50/60Hz

Total magnifications and real fields of view

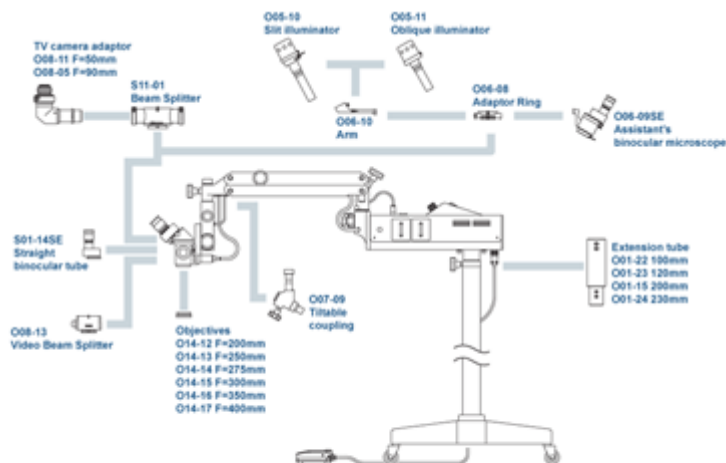
Objectives F(mm)	Magnifications		
	0.6x	1.0x	1.6x
175	5.3 (37.3)	8.9 (22.4)	14.2 (14)
200	4.7 (42.7)	7.8 (25.6)	12.5 (16)
250	3.8 (53.3)	6.3 (32)	10 (20)
300	3.2 (64)	5.3 (38.4)	8.5 (24)
350	2.7 (74.7)	4.5 (44.8)	7.2 (28)

*The figures in () show diameters of the real fields of view in millimeters when a straight binocular tube $f=125$, with eyepieces 12.5x is used

Dimensions



Optional Components



* Kindly note that the oblique illuminator, slot illuminator and assistant's binocular microscope are only available with objective F=175mm attached.

* Available in combination with UN-21 Full Reclining Chair as a treatment bed (S21-02 OM arm is separately required for the installation.)