

MICROSCOPE **OP-DENT 5**

**DESIGN AT THE SERVICE OF
ADVANCED ODONTOLOGY**



OP-DENT 5 MICROSCOPE



COMPACT, ERGONOMIC AND VERSATILE

The OP-Dent5 microscope, designed and manufactured by OPTOMIC, fulfils the current demanding requirements for better diagnoses and more precise treatments in the dental field.

Its excellent optical and mechanical features, together with its great mobility and versatility, make the OP-Dent5 microscope the ideal equipment for any dental specialty, providing quality treatment in all areas.

The sturdiness and stability of the OP-Dent5 microscope, as well as the freedom of movement, enable the head to be placed in any desired position. This allows the specialist to adopt a correct ergonomic sitting posture that optimizes comfort and efficiency.

The OP-Dent5 microscope incorporates a high-power LED light source for optimum illumination, which is crucial for obtaining an outstanding image quality.

A complete range of beam splitters for showing live images on a monitor, taking pictures or capturing videos, as well as the possibility of transferring the images to a PC or laptop, is also available.

MECHANICS AND OPTICS

The OP-Dent5 microscope features our exclusive movement and braking system Soft Move, which provides the microscope with extremely smooth and accurate movements.

The microscope head, with its multi-directional movements, also incorporates a knob for fine focus adjustments. The head's functional and ambidextrous design makes it very comfortable and easy to operate.



■ INCLINABLE BINOCULAR

The wide turning range of 0° to 240° allows for the perfect positioning of the microscope to assure the best ergonomics.

■ EYEPIECES

Standard: 10x widefield

Optional: 12,5x and 16x widefield

Large diameter lenses of high quality, providing bright and chromatically real images.



■ OBJECTIVES

Standard: 250mm.

Optional: 200mm, 300mm, 400mm and Varifocal (from 200mm to 350mm).

The objectives provide a uniform and bright illumination of the area explored.



■ EFFECTIVE MAGNIFICATIONS

5-step Galilean changer permitting magnifications from 2x up to 34x, depending on the chosen combination of binocular, eyepieces and objective.

OPTIMAL ERGONOMICS IN DENTAL MICROSCOPY

45° ROTATING EXTENSION

A 45-degree extension increases the distance between the patient's mouth and the eyes of the professional. This feature helps reducing work-related fatigue, as it ensures a perfectly relaxed working position where shoulders and arms remain at a correct angulation.

This extension system also provides a 50-degree rotation. The microscope head can be tilted 25 degrees to the left, or 25 degrees to the right, without changing the position of the binocular. This means that the eyepieces stay in a horizontal position, making it very easy and comfortable to focus the microscope on a specific examination area. At the same time, it facilitates an optimal ergonomic sitting position for the professional.

25° right and left rotation



LED ILLUMINATION TECHNOLOGY

The OP-Dent5 microscope incorporates powerful LED technology for optimum illumination.

The LED light source features a bright white LED light with the possibility of adjusting the intensity. As a unique option, it is also possible to select a warmer light, according to the preference of each specialist. A swing-in amber filter (ultraviolet light suppressor) is of course also available.

The FIBROLUX LED HP light source is very easy to use due to its intuitive product design. It is a low consumption device that offers an extraordinary long useful life.

- LED useful life: over 60.000 hours.
- Light intensity: 10.000 Klux.
- Two color temperatures: 6.000°K (white light) and 4.750°K (warm light).
- Amber filter to prevent resin material curing too fast.
- Light intensity control without color variations.
- Cooling system with two independent low noise fans.
- Robust, long-lasting housing made of extruded aluminum.
- Safety system against an abnormal increase of internal temperature.
- Stand-by mode that ensures the lowest possible energy use (ErP directive).
- Low maintenance device.
- Two outputs of 12V to connect peripheral devices as a monitor or camera.
- Connection for optional hand control.



Light intensity adjustment



Amber, white and warm light



OP-TV10 HD
beam splitter connection

DIGITAL MICROSCOPY

BEAM SPLITTERS

OPTOMIC offers a complete range of easy-to-operate beam splitters to support an effective and accurate treatment. The clear and sharp images provide the basis for a high-performance dentistry.

OP-TV8



Compact video-microscopy system with integrated CCD high resolution camera.

OP-TV10 HD



Compact video-microscopy system with built-in CMOS Full HD resolution camera.

OP-TV DC + DIGITAL CAMERA



Beam splitter with easy connection to digital photographic camera.

DIGITALLY SOFT HD

The Digitally Soft HD is a patient management, image & video capture software and a highly effective tool for digital microscopy.

The Digitally Soft HD allows to store and manage information from clinical records, which permits the patient's data to be processed in a simple and efficient manner.

It captures videos and photos from any video source and offers the possibility of creating reports with images of, for example, pre- and post-treatment conditions. Many other functions as statistics or area calculations are also integrated.



MOUNTING OPTIONS

A variety of different mounting options makes it easy to install the OP-Dent5 microscope in the best way possible to fit the layout of the clinic.

Multiple designs for floor, wall, and ceiling mounting are available. All options confer the microscope with great stability.

ROLLING FLOOR STAND



Strong and stable five-legged floor stand with double rubber wheels, all with brakes.

FIXED FLOOR MOUNT



Small and compact securing of the microscope to the floor.

WALL MOUNT

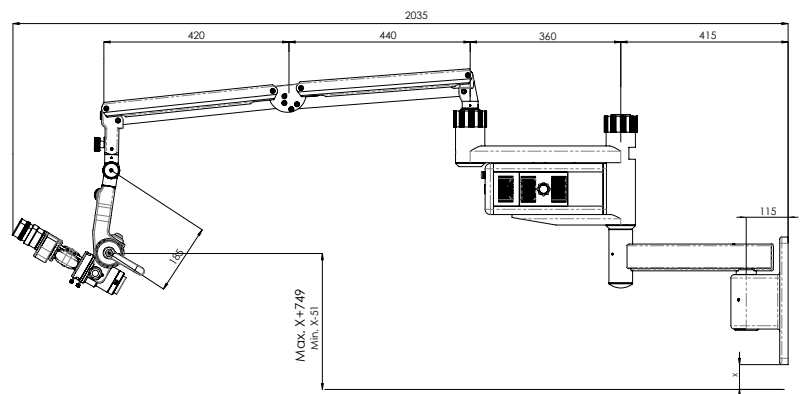
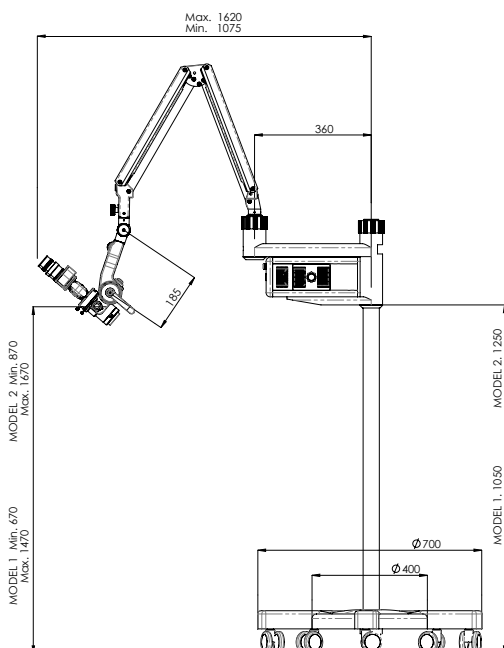
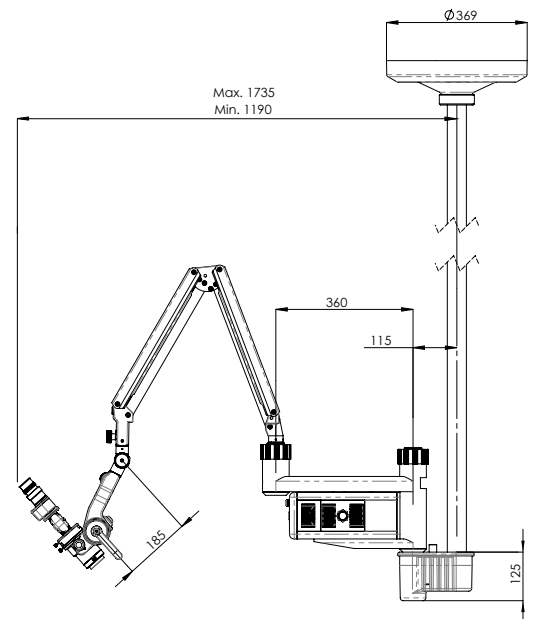
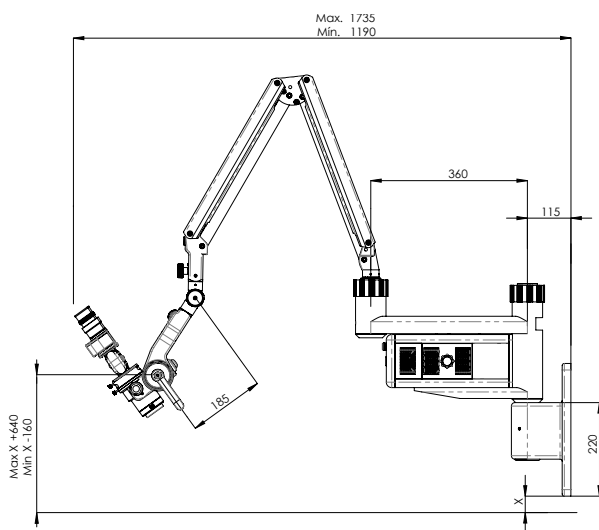


Practical and space-saving design. When not in use, the microscope can be folded against the wall.

CEILING MOUNT



Ideal solution when the wall or floor space is limited.





GENERAL FEATURES

HEAD	Stereoscopic with micrometric focusing.
BINOCULAR	0° to 240° inclinable binocular
EYEPIECES	10x widefield eyepieces. Optional: 12,5x and 16x widefield
MAGNIFICATION CHANGER	5-steps Galilean magnification changer (0,4x, 0,6x, 1x, 1,6x and 2,5x)
OBJECTIVE	250mm objective. Optional: 200mm, 300mm, 400mm and Varifocal objective (from 200mm to 350mm)
EFFECTIVE MAGNIFICATIONS	Changer permitting magnifications from 2x up to 34x, depending on the chosen combination
LIGHT SYSTEM	Coaxial through lens with LED light source
LIGHT CONDUCTION	Fiber optic cable
MOVEMENT SYSTEM	Movements by means of angular and conical bearings and Teflon discs. Hardness and blocking adjustments. Exclusive Soft Move system.
POWER SUPPLY	100-240V / 50-60Hz
MOUNTING OPTIONS	Floor, wall or ceiling mount
OPTIONAL ACCESSORIES	Beam splitters and video systems 45° rotating extension Monitor support Digitally Soft HD software Laptop tray Camera tray

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