

Professional surgical microscope for sharply focused imaging

Combination of classic aesthetics and modern technology

The Compass LED surgical microscope integrates high performance features for sharply focused imaging and user-friendly functionality. The compass LED offers superb optical performance with 6-step magnification capabilities and apochromatic lens that improves the resolution, contrast and image depth. The LED light source provides long-lasting, pure white color light. The counter-balanced pantographic arm allows for easy maneuvering and exact positioning.

Choose between three types of bases:

Mobile Floorstand (left)
Wall Mount
Table Mount



► Key Features

- 6-Step magnification system
- LED lightsource Lux, life, Kelvin
- 20W LED coaxial illuminator
- 10x Wide Field Eyepiece (12.5x available)
- 250mm Objective Lens (200-400mm also available)
- Apochromatic Objective Lens
- Adjustable Eyecups
- Rotatable Maneuvering Handles
- Counter-balanced pantographic arms design and tension control adjustable
- Mounting Options: Fixed Floor, Wall, Ceiling, Table, Mobile Floor
- Integrated Orange and Green Filter
- Optional Integrated Video Camera
- Available foot-long extension arm
- Upgradable Assistant Scope



Feature Highlights

Modular Design

The microscope's design not only allows you to interexchange binoculars (straight, 45° fixed, 0-180° inclinable) easily, but also allows you to upgrade your microscope with the desired accessories at any time.

Wide Field Eyepiece

Height adjustable eye cup and diopter adjustable feature is inserted into eyepiece tube. Diopter Adjustable of Eyepiece: +/- 7D

Patented Rubber Rotatable Handle

Rotatable maneuvering handles with patented ergonomic rubber handle cover to prevent slipping

0-180° Inclinable Binocular

This ergonomic feature allows for comfortable and exact microscope positioning.

Fine Focus Knobs

The fine focus knobs can be set on the front, right, or left side of the microscope and offer 11 mm focus area without moving the microscope body.

High Quality Lens

All lenses are multi-coated and anti-reflective, combining with infinity corrected optical system & brilliant apochromatic optics, which offers superb optical performance, including:

1. High resolution
2. Real 3-Dimensional Precise Image Reproduction
3. Large Depth of field
4. Wide Field of View
5. Good Contrast

6-Step Magnification

The six step magnification provides a larger magnifying range and more selection on magnification to meet the requirement of your practice, from lowest magnification for an overview of whole arch to high magnification for precise and close inspection and treatment.

Apochromatic Optics

The apochromatic optic corrects the chromatic aberration of three types of colored light effectively. It ensures the reduction and saturation of image color and improves the resolution, contrast and depth of image.

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20W LED Coaxial Illuminator

The LED light source provides pure white color light similar to the sun light to show real color. It not only avoids the trouble of changing bulbs, but also saves your cost for the spare bulbs and electric charge.

Counter-balanced Pantographic Arms

With tension control adjustable connection arms, the optical head can be easily maneuvered at any position and stopped where you wanted in its working range. All maneuvers can be done by one hand with a little force.

Integrated Orange and Green Filter

The orange filter provides UV protection to prevent premature curing of composite, while the green filter provides a better recognition of blood vessels.

Improved 120° Connecting Arm

The improved connecting arm eliminates the risk of dangers to the patient because the microscope body can be stopped at +/- 60° position even if you loosen the locking knob fully.

Optional Video System

A convenient video camera (1 CCD) is available for integration. The images from the integrated video camera can be inputted into a monitor or a TV set directly or into a computer by image collection with USD adapter or stored into a hard disk recorder.

Specifications

- Eirger 45° inclined or 0-180° inclinable binocular head for Dental surgery or Straight binocular head for ENT surgery.
- 12.5x/18mm High Eye-point Wide-Field eyepieces
- Range of Pupillary distance: 50mm to 70mm
- Range of the Diopter of Eyepiece: +/- 7D
- 250mm APO-chromatic objective lens with fine focusing adjustment knob
- Magnification: 6-step, Total magnification indicator 0.33=2.8x, 0.5=4.2x, 0.8=6.9x, 1.22=10.40x, 2=17X, 3=25.6x
- Diameter of object field: 8.7mm to 78.3mm
- Arms: First big arm, 500mm length can be rotated 360°. Second small arm 600mm in length with movement +/-300mm can be rotated +/-150°. Third angled arm can be 3-D movement.
- Height: 1750mm
- Base size: 610mm X 600mm
- One 20W LED Illuminator
- Maximum Object Illumination: 50,000 Lux Min.
- Built-in Orange filter and Green filter changed by a knob.
- Power supply: 220V/50Hz or 110V/60Hz
- Pupillary distance adjustable: 50mm to 70mm