STELLA

SURGICAL MICROSCOPE



LABOMED®
ideas for vision

A Shining New Beacon in Multidisciplinary Surgical Imaging



STELLA

A brilliant new era in surgical imaging is here. Stella brings greater flexibility, performance and affordability to vitreoretinal and cataract surgery.

A multifunctional microscope, Stella brings together features that enhance precision in ophthalmic surgery: a motorized apochromatic optical system with a 10-function foot control, easy adaptation of a fundus viewing system, a host of video accessories, multiple intraoperative viewing modes, and articulation and control features that make the microscope more agile and more responsive to the needs of eye surgery.



PRECISE FUNCTIONALITY AT EVERY TURN



Stella gives ophthalmologists a waterproof 10-function foot control that effortlessly drives the X, Y and Z motors, the magnification changer and the light intensity. Housed in the arm system is an IR- and UV-safe LED (5700 K) that provides cool, crisp white illumination for more comfortable, accurate and safe practice.

Unlike conventional cylindrical columns, Stella's triangular column pivots with the arm, distributing weight more evenly and keeping a near-perfect center of gravity for vibration-free operation. The standard f = 200 mm objective optimizes the working distance for vitreoretinal surgery, with excellent depth of field. An optional f = 175 mm objective and wide-field eyepieces with generous eye relief make the system ideal for vitreoretinal procedures.

An adjustable assistant viewer bridge allows seamless co-observation, keeping the surgeon's and the assistant's views in sync.

Select from daylight, blue barrier (yellow filter), fluorescein excitation (cobalt blue), vascular identification (green filter), anti-glare (two-spot diaphragm) and retinal protection intraoperative viewing modes. Coaxial red reflex can also be engaged at the flip of a switch, for consistent, optimal image contrast in cataract surgery.

Magnification changes quickly through an intuitive foot control. Stella's EZtilt carrier tilts the microscope ±180° on its axis, so the angle of transmitted light can be changed to improve patient comfort.





"My operatory always had ceiling-mounted microscopes in order to reduce vibration to my optics. Stella's new floor stand concept totally eliminates vibration, is so well balanced, and is a breeze to move around."



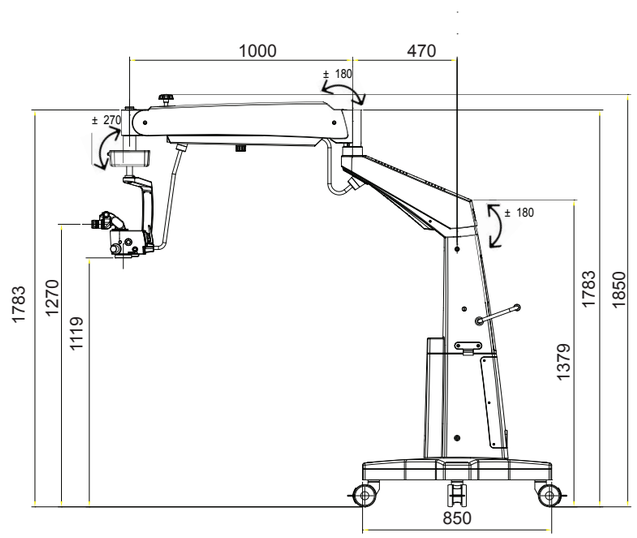
CLEVER DESIGN ENHANCES MODULARITY AND SAFETY

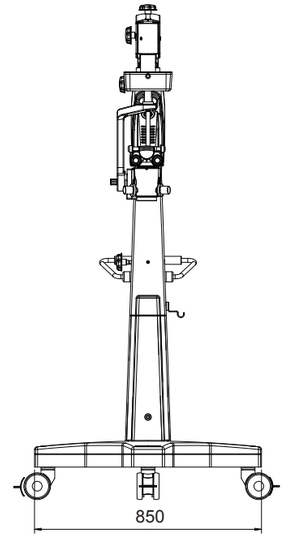


A smooth, silent motor drive moves the optical head along the X, Y and Z axes for highly sensitive scanning of ocular anatomy, and a single button returns the XYZ center to its factory setting. The ProLine series offers a host of accessories, including beam splitters, DSLR camera adapters for all major makes and models, smartphone adapters and an assistant viewer bridge for co-observation. With the Stella VESA mount, an HD monitor can be added to the microscope arm for live streaming and image preview.

For wide-angle observation in vitreoretinal procedures, add a fundus viewing system to Stella. A safety stop knob limits the arm height, keeping the arm from descending below a preset point and so avoiding any risk of injury to the patient.

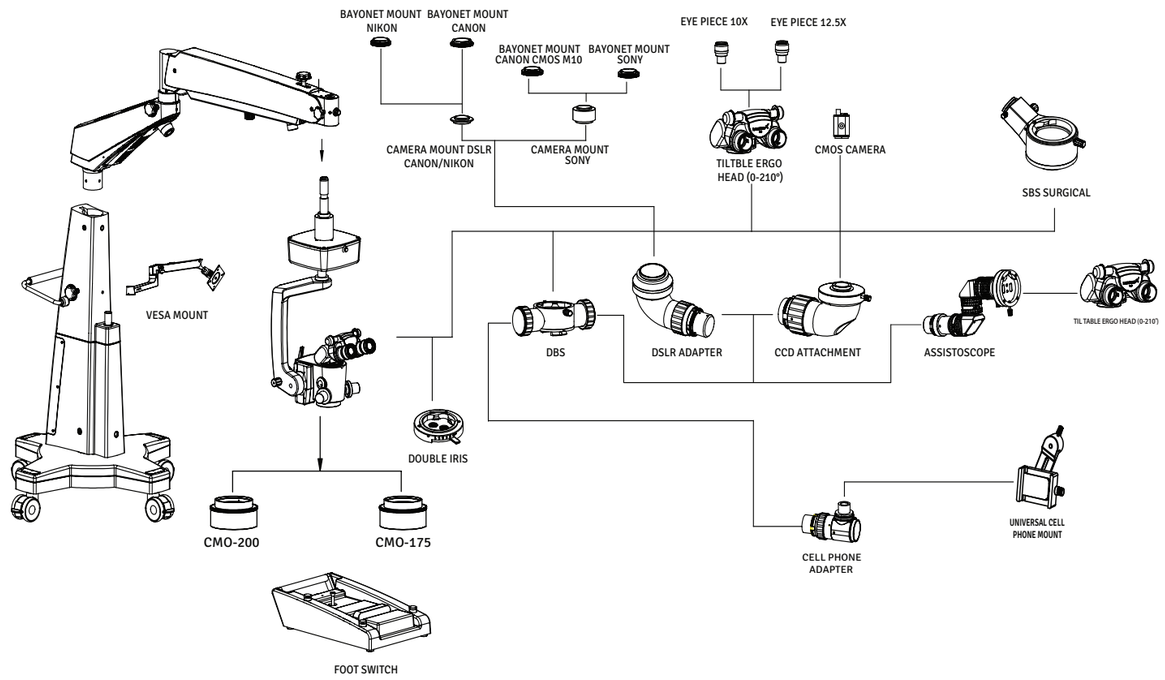






All dimensions in mm

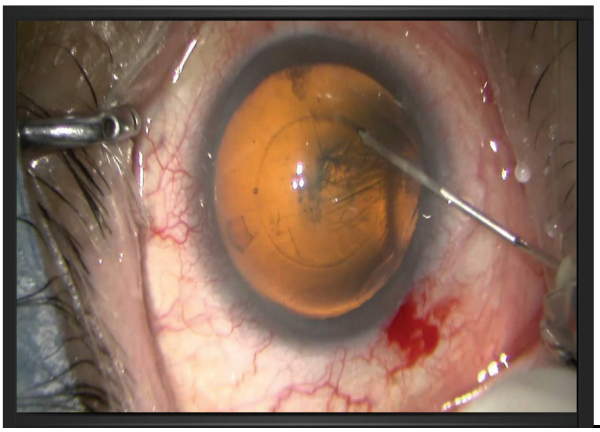
SYSTEM DIAGRAM



STELLA

SPECIFICATIONS

Stand	Robust, vibration-free stand on a star base with four lockable casters
Observation tubes	0–210° tiltable binocular head, f = 140 mm, with double iris attachment for depth-of-field management
IPD	49–78 mm
Eyepieces	Standard: WF 12.5x/18 mm with eyecups Option: WF 10x/18 mm with eyecups
Diopter adjustment	±5 D
Magnification changer	MaxLite coated, apochromatic, motorized step changer with double beam splitter 5 steps: 0.4x, 0.6x, 1.0x, 1.6x, 2.5x
Stereo base	24 mm
Microscope tilt	0–180° (tiltable, auto-locks in any position)
Objective	Standard: f = 200 mm; option: f = 175 mm
Field of view	64.3–10.3 mm diameter
Magnification range	3.5x–21.9x
Illumination field	55 mm diameter
Fine focus	40 mm range, motorized, silent
XY travel	50 × 50 mm with auto reset
Light source	50 W LED, free of UV and IR
Illuminance	60,000 lux
Maximum power	200 W
Color temperature	5700 K
Built-in filters	Flip-in blue blocking (yellow), green and blue
Optional accessories	Assistant binocular attachment, ProLine camera adapters, smartphone adapters
Swivel arm	470 mm
Suspension arm	1000 mm
Swivel arm rotation	±180°
Suspension arm rotation	±180°
X-Y rotation	270°
Vertical travel, suspension arm	±300 mm



Foot switch	10-function wired foot switch for XYZ, magnification changer and intensity
Max. suspension load	12 kg
Base diameter	850 mm
Base and column weight	170 kg
Arm weight	24.5 kg
X-Y, changer and head weight	8.7 kg
Total height	1880 mm
Maximum arm extension	1620 mm

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