

STELLA

SURGICAL MICROSCOPE



A Shining New Beacon in Multi-Disciplined Surgical Imaging



STELLA

“A brilliant new era in surgical imaging technology is here. Stella promotes greater flexibility, performance, and affordability in vitreoretinal and cataract surgeries.

A multi-functional microscope, Stella brings to bear a suite of features that will enhance ophthalmic surgical precision, from a 10-way foot controlled motorized apochromatic optical system, easy adaptation of fundus viewing system as well as a host of video accessories, multiple interoperative viewing modes, as well as articulation and control features that make the microscope nimbler and more responsive to eye surgery needs.”



PRECISE FUNCTIONALITY AT EVERY TURN



“Stella provides ophthalmologists a waterproof foot control (10-way) that will effortlessly drive X, Y, and Z motors alongside magnichanger and light intensity adjustment functions. Conveniently housed in the arm system is an IR and UV safe LED (5700 kelvin) that will provide cool, crisp white illumination for more comfortable, accurate and safe practice.

Unlike other cylindrical columns, Stella’s novel triangular column system will pivot with the arm, distributing weight more evenly while maintaining a near perfect center of gravity for vibration free operation. With Stella’s standard F=200 mm objective lens, working distance is optimized for vitreoretinal surgery with fantastic depth of field. AF=175 mm optional objective and wide field eyepieces with superior eye relief make the system ideal for vitreoretinal procedures.

An adjustable assistant viewer bridge provides for seamless co-observation of procedures, ensuring surgeon and assistant vision is in sync.

”

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



Magnification change is easily achieved thanks to an intuitive foot control function, enabling quick toggling. Stella’s EZtilt tilting carrier articulates the microscope $\pm 180^\circ$ on axis, enabling a change in transmitted light angle to improve patient comfort.



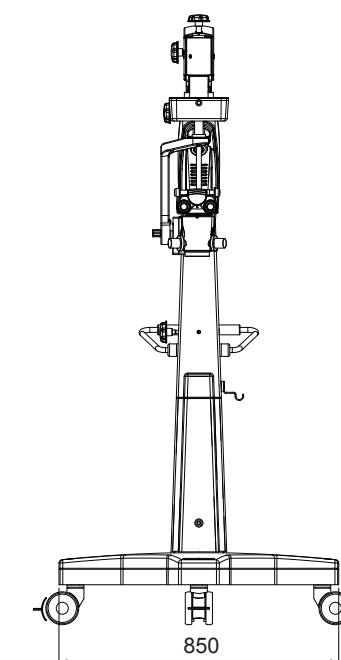
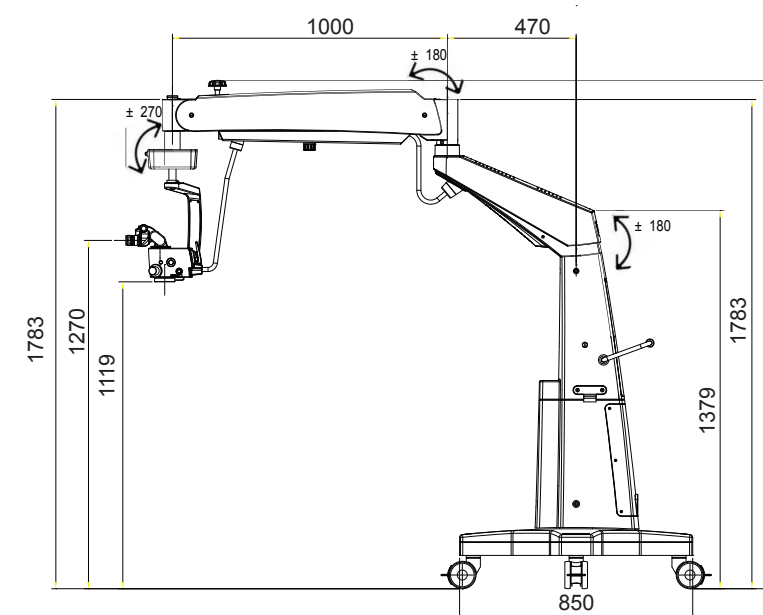
“My operatory always had ceiling mounted microscopes to in order to reduce vibration to my optics. Stella’s new floor stand concept totally eliminates vibration, is so well balanced, and is a breeze to move around.”



CLEVER DESIGN ENHANCES MODULARITY AND SAFETY

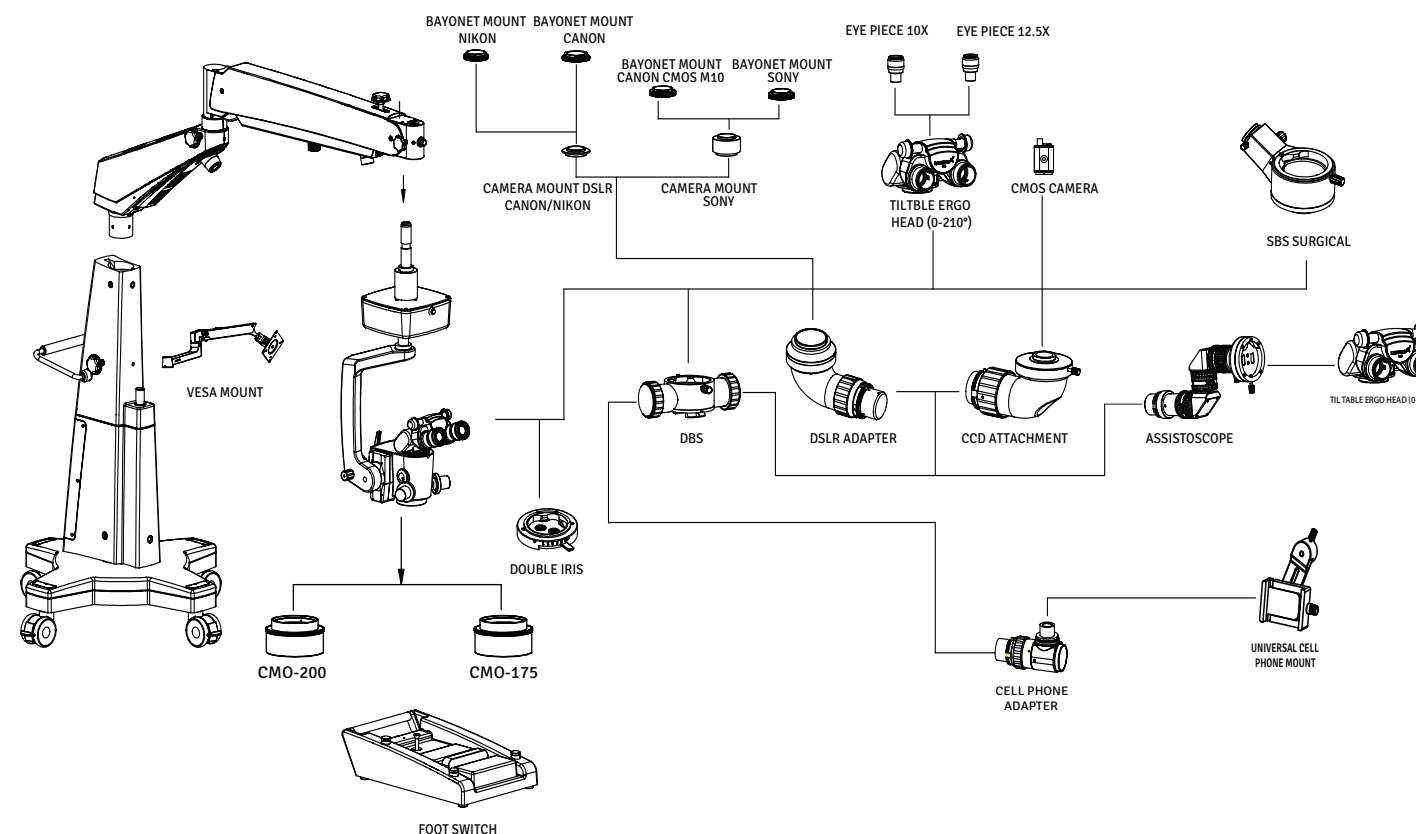


A smooth, noise free motor drive will seamlessly transition the optical head in X, Y, and Z axes, enabling scanning of ocular anatomy with a high degree of sensitivity. Quickly reset XYZ center back to factory settings with the push of a button. A host of accessories are available from our ProLine series including beam splitters, DSLR camera adapters for all major makes and models, smart phone adapters, and an assistant viewer bridge for co-observation. With the addition to our Stella VESA mount, operators can add an HD monitor to the microscopes arm for live streaming and image preview.



All dimensions in mm

SYSTEM DIAGRAM

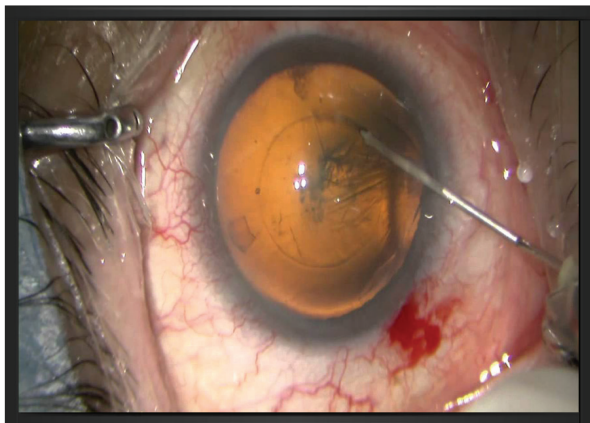


For wide angle observation in vitreoretinal procedures, add a fundus viewing system to Stella's package. Stella's arm height can be limited with the rotation of a safety stop knob, keeping the arm from descending below a pre-set point, thus avoiding risk of injury to the patient.



STELLA

Stand	Robust vibration free stand on star base with four lockable castors
Observation tubes:	0-210° Binocular tiltable head F=140 mm configured with Double Iris attachment for depth of field management
IPD	49-78 mm
Eyepieces:	Standard: WF 12.5X/18 mm with eye guards Option: WF 10X/18 mm with eye guards
Dioptr Adjustment:	±7 mm
Magnichanger:	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 and auto locked at any position)
Objective:	Standard: f=200 mm, Optional:f=175 mm
FOV diameter:	64.30 mm-10.30 mm
Magnification Range:	3.50X-21.90X
Illumination field diameter:	55 mm
Fine focus:	Range 40 mm, motorized noise free
XY Travel:	50 X 50 mm with auto reset
Light source:	UV & IR free 50 W LED
LUX:	60K
Maximum Wattage:	200 W
Colortemperature:	5700K
Built-in filters:	Flip in/out blue blocking (yellow), Green & Blue filter
Optional accessories:	Assistant binocular attachment, Proline range of camera adapters, Smart phone adapters
Swivel Arm:	470 mm
Suspension Arm:	1000 mm
Swivel Arm rotation:	±180°
Suspension Arm rotational:	±180°
X-Y rotation:	270°
Vertical movement of suspension arm:	±300 mm



Foot Switch:	10 function wired foot switch for xyz, magnichanger & intensity control
Max. Suspension load:	12 kg
Base diameter:	850 mm
Base & column weight:	170 kg
Arm Weight:	24.5 kg
X-Y, magnichanger, head weight:	8.7 kg
Total height:	1880 mm
Maximum extension of arm:	1620 mm



LABOMED 

Labo America, Inc.
920 Auburn Court
Fremont, CA 94538
Tel: (510) 445-1257
Fax: (510) 445-1317
E-mail: sales@laboamerica.com

www.laboamerica.com



Distributor