



Model
LuminPro



ENT and Head & Neck
Surgical Operating Microscope



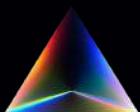
Precision ■

Clarity ■

Performance ■

Empowering ENT surgeons

Designed to meet the demanding needs of modern ENT surgery, Sanma Surgical Operating Microscope delivers exceptional optical clarity, precise manoeuvrability, and ergonomic comfort. With advanced magnification, superior illumination, and flexible positioning. Enable surgeon to perform delicate procedures with confidence and accuracy.



Apochromatic - BBAR optics

Enhanced Visualization

- Provides high magnification and excellent illumination of deep, narrow, and complex anatomical areas like the middle ear or paranasal sinuses.
- Allows surgeons to see fine structures such as nerves, ossicles, and blood vessels clearly.
- Improves identification of pathological tissue vs. healthy structures.

Greater Surgical Precision

- Facilitates microsurgical techniques—especially important in delicate procedures like:
- Tympanoplasty (eardrum repair)
- Stapedectomy (middle ear surgery for otosclerosis)
- Cochlear implant surgery
- Enables precise dissection, suturing, and graft placement, minimizing tissue trauma.

Improved Ergonomics for Surgeons

- The binocular viewing system allows for a comfortable, upright posture.
- Reduces neck and back strain during long surgeries.
- Motorized controls and adjustable positioning provide better control and flexibility.

Reduced Intraoperative Complications

- Clear visualisation of critical structures (e.g., facial nerve, chorda tympani) helps avoid accidental injury.
- Better hemostasis and reduced bleeding due to precise tissue handling.

Educational and Documentation Advantages

- Integrated video and camera system
- Real-time teaching and demonstration for students and residents.
- Documentation for medico-legal records or post-operative analysis.
- Use in telemedicine and surgical training modules.

“
Enhancing
Clarity and
Control
”

High-definition magnified view of delicate ENT structures

Superior illumination for deep and narrow cavities

Enables precise and safe microsurgical techniques



LuminPro



Magnification: step or continuous motorised zoom



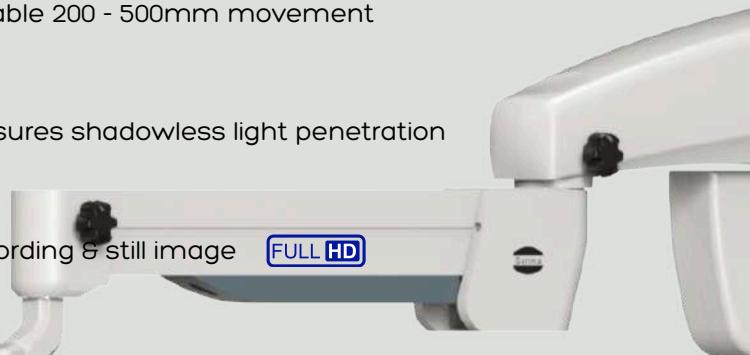
Working Distance: motorised variable 200 - 500mm movement



Illumination: LED through OFC ensures shadowless light penetration



High Quality Camera with live recording & still image **FULL HD**



Manual Control

- Magnification
- Variable working & fine focus adjustment
- Light Intensity



Handgrip Control

- Magnification
- Variable working & fine focus adjustment
- Live video record & still image



Foot switch*



FHD monitor



* Optional

** CI surgery - MERF, Chennai, India



90° straight binocular
eye piece tube



0°-210° tilt able binocular
eye piece tube

LuminPro facilitates otolaryngologist to attain smooth & successful ear surgeries, Cochlear implants, micro-laryngeal and e head & neck-skullbase procedures by ensuring satisfactory performance and yield recovering smiles on patients.

LuminPro assisted cochlear implant surgery allows
meticulous dissection around critical structures





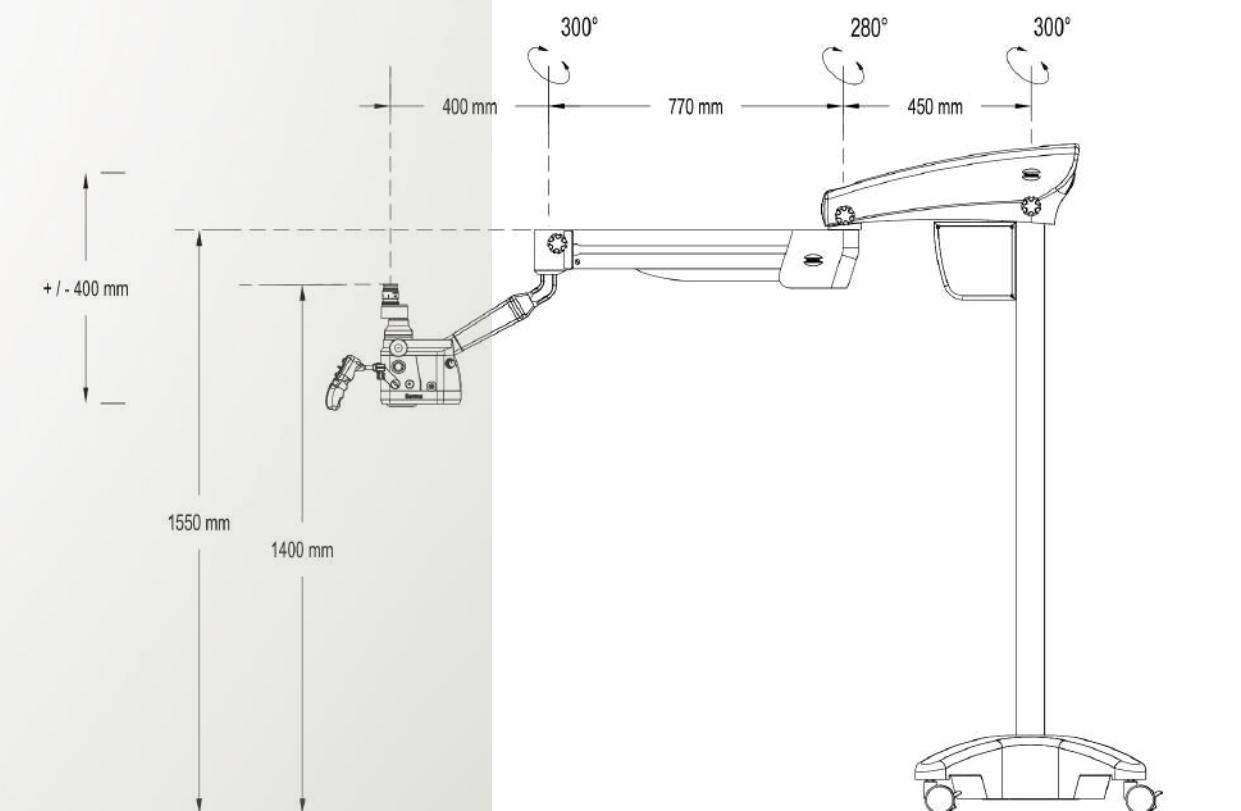
Ceiling Mount



Comfortable & Precise
Ossicular Work



Wall Mount



Technical Data

Features	Description	Configurable
Optics	Fully apochromatic Galilean type, broad bandwidth anti-reflective coated	
Binocular tube	90° Straight binocular tube (for ENT)	0°- 210° tilt able binocular tube (multi-purpose)
Stereo base	22mm	
Eye piece	10x pair of wide field push sleeves & high eye point	12.5x pair of wide field push sleeves & high eye point
Inter pupillary distance	50mm to 75mm	
Diopter adjustment	-6D to +6D	-8D to +5D with magnetic locks
Motorized magnification	5 step: 0.4x, 0.6x, 1.0x, 1.6x, 2.5x	1:6 ratio continuous zoom
Working Distance	Sanma's i-focus 200 - 500mm continuous variable working distance controlled by motorized handgrip	
Illumination	Hi-power LED source, Homogenous co-axial shadow free bright white spotlight guide through fused fiber optic cable, day light color temperature, 100,000 lux, heat absorbent & UV filter	Limit switch control to lamp on/off during microscope park position
Field of Illumination	Ø70.5mm - Ø141mm (200 - 500mm distance range)	
Intensity control	Continuously adjustable lamp intensity control in handgrip buttons	
Controls	Handgrip controls for adjusting variable working distance, magnification, light intensity, live video on/off and still image freeze	Foot switch
Arm Movement	Articulated spring balance, well counter balance for smooth positioning	
Floor Stand	Stable and sturdy floor stand on lockable smooth castors with a column height of 1.7m	Wall mount / Ceiling mount
Sterile Caps	Autoclavable silicon caps provided for all adjustable knobs.	
Imaging System	<ul style="list-style-type: none"> • Integrated camera full HD CMOS 1080p • HD-SDI / HDMI • push buttons access to control on/off live recording & still image • storage through external memory stick / pen drive 	Monitor* : 24' / 27' <small>*size subject to availability</small>
Weight	Floor Stand 135 kg	<ul style="list-style-type: none"> • Optical head part with 90° straight bino: 5.7kg • Optical head part with 0°-210° tilt able bino: 6.50kg

LuminPro

*Versatile model for across
ENT & HNS micro surgical
applications*





Empowering
Surgeons



Bringing microscopic accuracy to
macroscopic results in ENT surgery.

EMC 2014/108/EC
EAR Regulation (EU) 2017/745 on Medical Devices
Clinical Evaluation report as per EU MDR 2017/745
Technical documentation as per Annex II of EU regulation 2017/745
ISO 13485:2016
CDSCO: TN/M/MD/004755

Specifications & Design are subject to change without prior notice as a result of further product development
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