



Model  
LuminPro



**ENT and Head & Neck**  
Surgical Operating Microscope



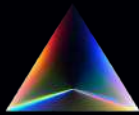
Precision ■

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.

Sanma  
ENT Surgical Operating Microscope  
LuminPro

“  
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







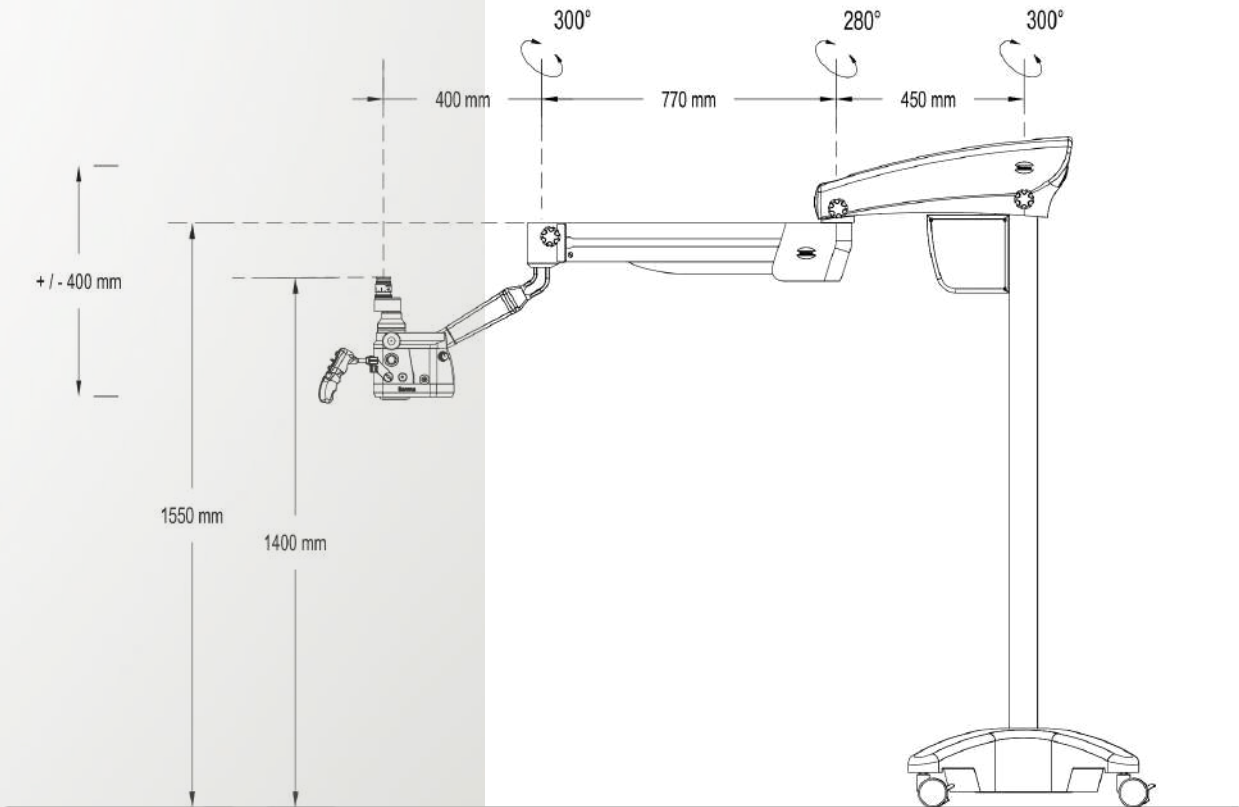
Ceiling Mount



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:<br>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"> <li>Integrated camera full HD CMOS 1080p</li> <li>HD-SDI / HDMI</li> <li>push buttons access to control on/off live recording &amp; still image</li> <li>storage through external memory stick / pen drive</li> </ul> | Monitor* : 24' / 27'<br><small>*size subject to availability</small>   |
| Weight                   | Floor Stand 135 kg   | <ul style="list-style-type: none"> <li>Optical head part with 90° straight bino: 5.7kg</li> <li>Optical head part with 0°-210° tilt able bino: 6.50kg</li> </ul> |

# 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/OO4755

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