



## LuminPro

Surgical Microscope

### VERSATILE FEATURES

Magnification - Working Distance - High Quality Camera System

Shadowless  
Uniform Light

Clear & Sharp  
Surgical View

Enhanced  
Visibility

Ergonomic  
Movements



ENT



Spine

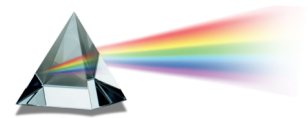


P&R



Neuro

Perfect perceptive quality image  
Vivid stereoscopic three dimensional view  
Endorse successful surgical results  
Ensures comfort usage & ownership



**Apochromatic - BBAR optics**

Clarity

Depth

Ergonomics

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Sanma surgical microscope the **LuminPro** in operating room, provides fine magnified views of the surgical field to help surgeons to perform precise procedures steadily

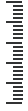
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Motorized magnification:  
5 step or 1:6 ratio  
continuous zoom



Integrated CMOS camera, live  
video recording & still image in  
memory stick / pen drive



Motorized focus - working  
distance: 200 - 500mm  
continuous variable focal lens



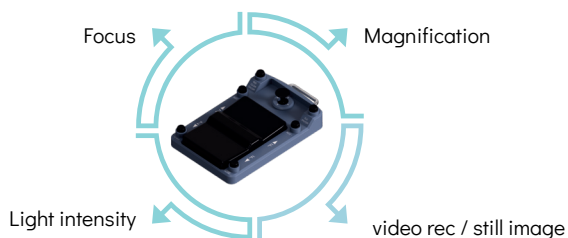
Illumination: bright day light  
color temperature LED source  
through fused fiber optic cable



Handgrip controls for  
magnification, focus and  
live video & image storage



Ergonomic foot switch\*



\*optional

**Visual  
Experience**

Lumin pro expels fine three dimensional microscopic view. Eventually Sanmas' adorable optics smoothens clarity. Optimal illumination system provides vision friendly light intensity during long surgical exposure and allows successful clinical results



90° straight binocular  
eye piece tube

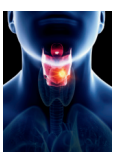
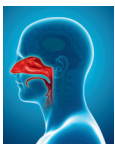


0°-210° tilt able binocular  
eye piece tube

Precision   
Accuracy  
Recurring patient outcome

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

E N T  
H N S





Face to face optical bridge for lateral view

LuminPro Twinz unleashes much needed features for spine and plastic & reconstructive surgeons to perform captivate micro-surgical diagnosis and procedures. The bright illumination and crisp clear optics allows best of microscopic images  
The continuous 1:6 ratio zoom magnification & variable working distance 200 - 500mm offers good depth & focus, allowing the surgeon to view the surface of the tissue and deeper structures.



LuminPro Twinz perfect surgical microscope to position for a multi-specialty hospital / institutions in neuro-spine and P&R departments

- ✓ Stand by microscope system for busy neuro-spine operating room
- ✓ Well being microscope for young neuro-spine surgeons
- ✓ Helps faculties and chief surgeons to train their juniors and assistant surgeons by posting minor neuro / spine cases /
- ✓ Adorable microscope for plastic & reconstructive / micro-vascular
- ✓ Optimal choice for skill lab set-up for micro-surgical disciplinaries for hands-on training academic centers in institutions
- ✓ Captivate features for operating



Spine



Neuro

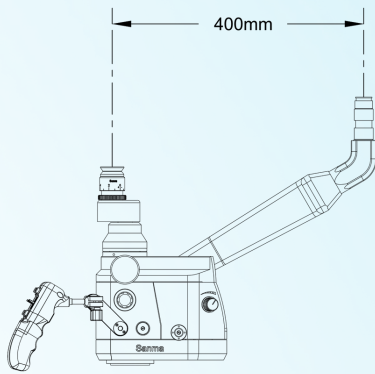


Hand Surgery

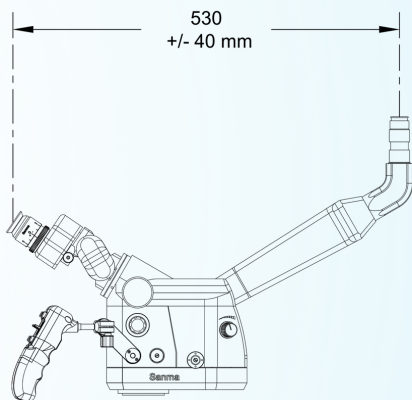


P & R

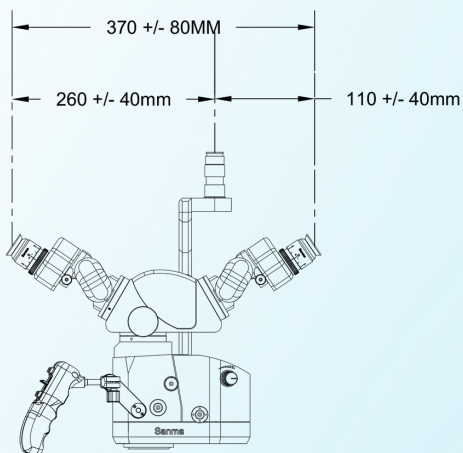




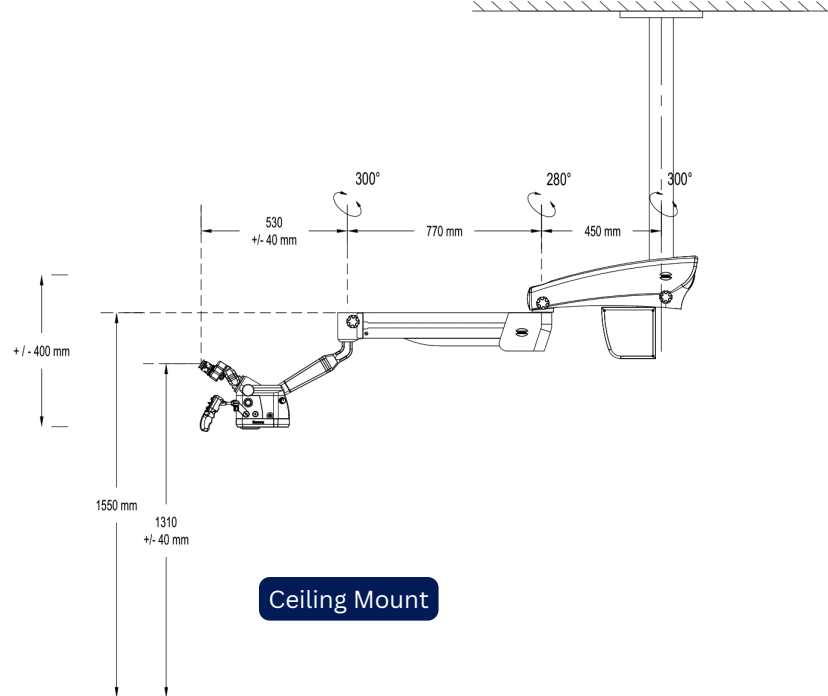
90° straight binocular  
eye piece tube



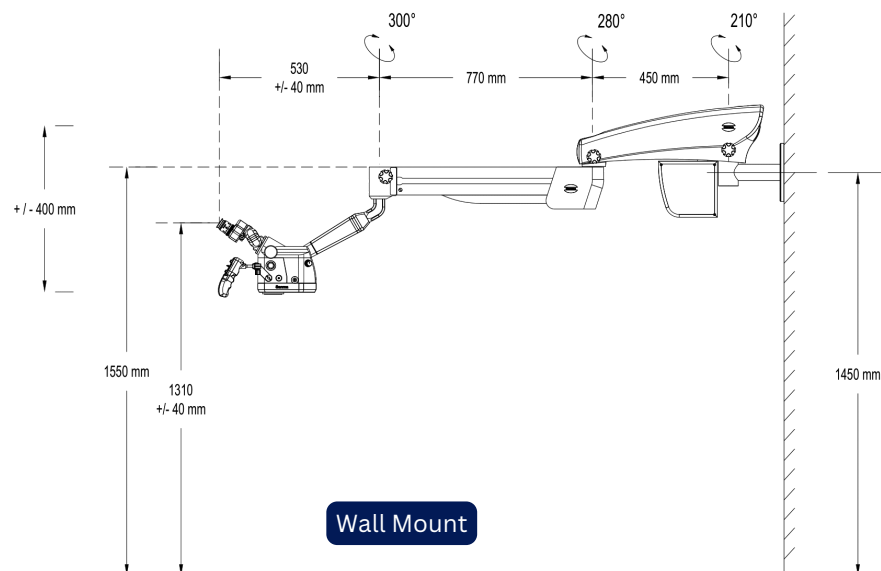
0°-210° tilt able binocular  
eye piece tube



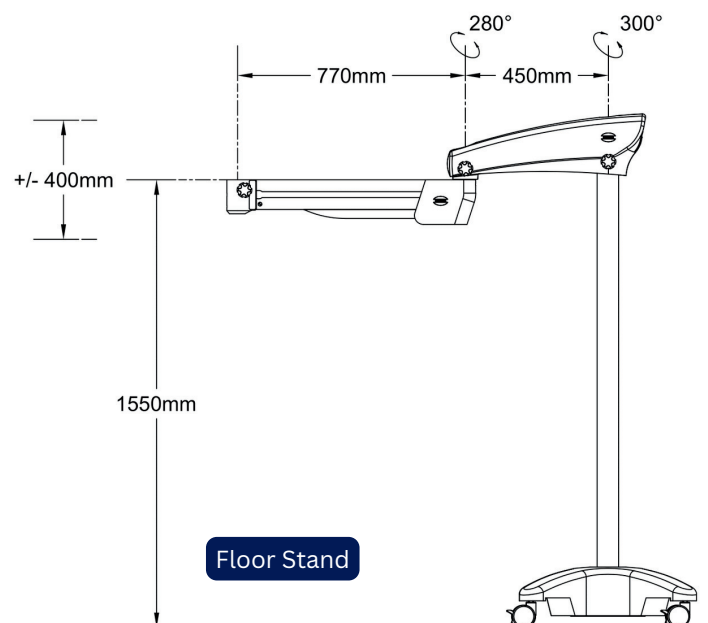
Face to face optical bridge for  
lateral view



Ceiling Mount



Wall Mount



Floor Stand

## Technical Specification: Lumin pro

Features	Description	Optional
Optics	Fully apochromatic Galilean type, broad bandwidth anti-reflective coated	
Binocular tube	<ul style="list-style-type: none"> <li>90° Straight binocular tube (for ENT) or</li> <li>0°- 210° tilt able binocular tube (multi-purpose)</li> </ul>	<ul style="list-style-type: none"> <li>Face to face optical bridge for later view with 0°- 210° tilt able binocular tube for spine and P&amp;R</li> </ul>
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, inbuilt 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>	<ul style="list-style-type: none"> <li>4K</li> <li>Monitor* : 24' / 27'</li> </ul> <small>*size subject to availability</small>

fulfills the needful requirements for the super specialty micro-surgical academic learning applications / skill lab setup with viable features in LuminPro like motorized magnification 1:6 zoom or step, continuous variable working distance 200 - 500mm, one push button for live video recording & still image storage in memory stick / pen drive.





Operating microscope for  
multi-disciplinary micro-  
**surgical procedures**

[www.sanmas.com](http://www.sanmas.com)

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 Certified facility  
CDSCO: TN/M/MD/004755

Specifications & Design are subject to change without prior  
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2024



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