



Lumin Pro

SURGICAL MICROSCOPE WITH VERSATILE MAGNIFICATION,
WORKING DISTANCE AND HIGH QUALITY CAMERA SYSTEM

Shadowless
Uniform Light

Clear & Sharp
Surgical View

Enhanced
Visibility



ENT



P&R

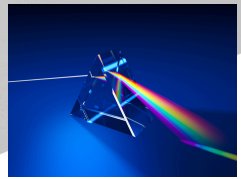


Spine

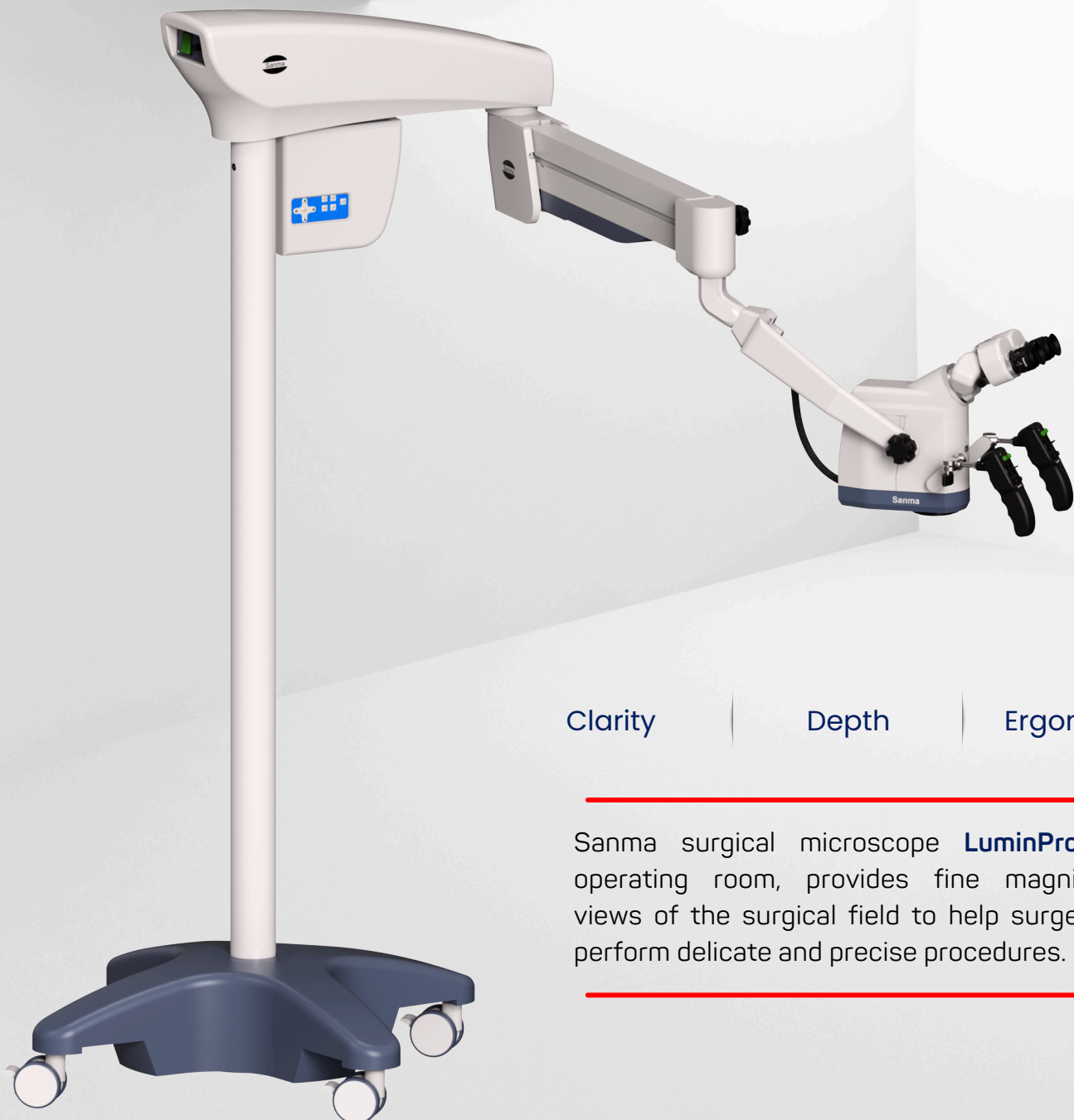


Neuro

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



Apochromatic - BBAR optics



Clarity

Depth

Ergonomics

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



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



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



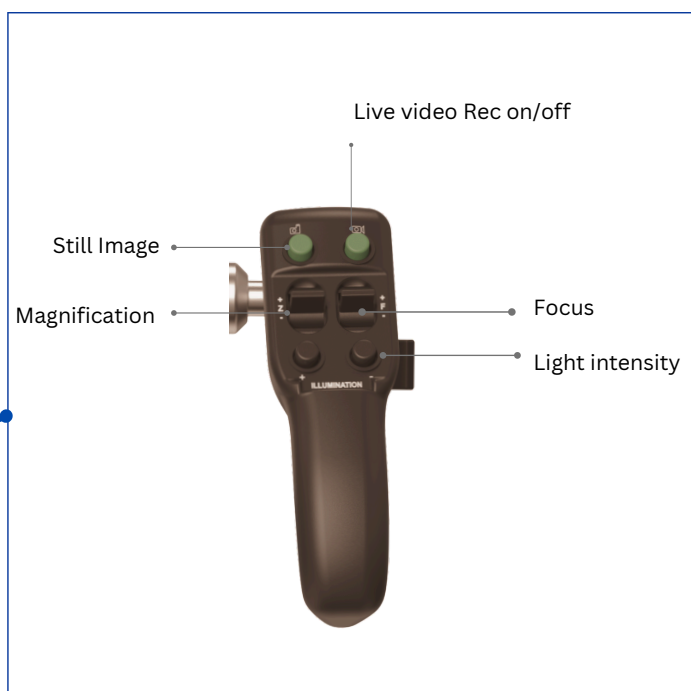
Motorized focus - working
distance: 200 - 500mm
continuous variable focal lens



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



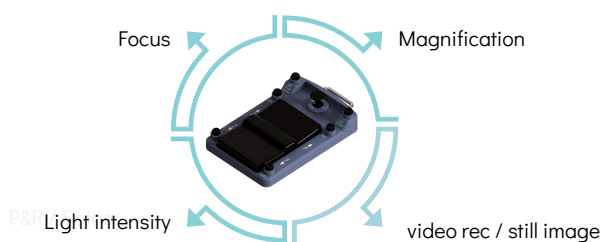
Handgrip controls for
magnification, focus and
live video & image storage



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

Ergonomic foot switch*



*optional

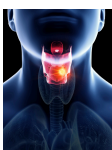
One solution for multi-disciplinary
micro-**surgical procedures**

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

90° straight binocular
eye piece tube



0°-210° tilt able binocular
eye piece tube



Face to face optical bridge for lateral view

LuminPro
Twinz



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

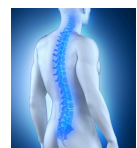
- ✓ stand by microscope system for busy neuro-spine operating room
- ✓ Well being microscope for young neuro-spine surgeons for their learning & academic practice
- ✓ Helps faculties and chief surgeons to train their juniors and assistant surgeons by posting minor neuro / spine cases / hands-on practice in skill lab
- ✓ Adorable microscope for plastic & reconstructive / micro-vascular / hand surgical procedures



Precision
Accuracy

Recurring patient outcome

Spine



Neuro

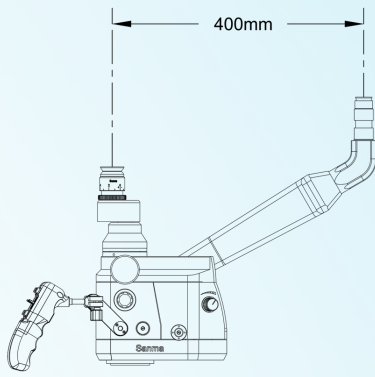


Hand Surgery

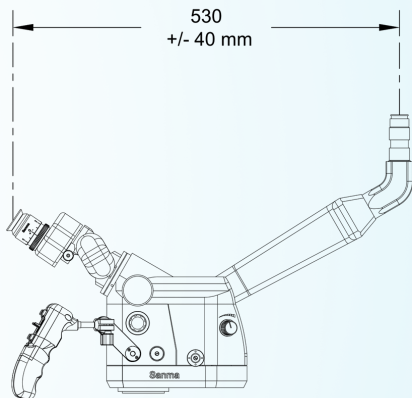


P & R

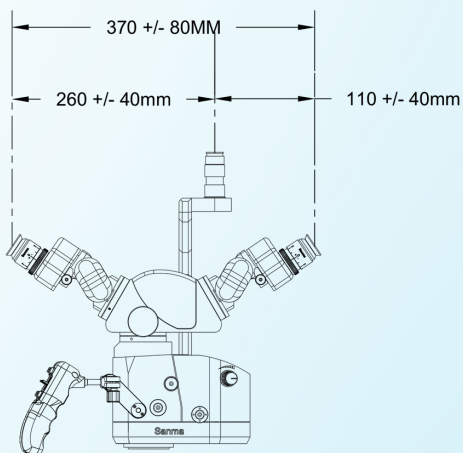




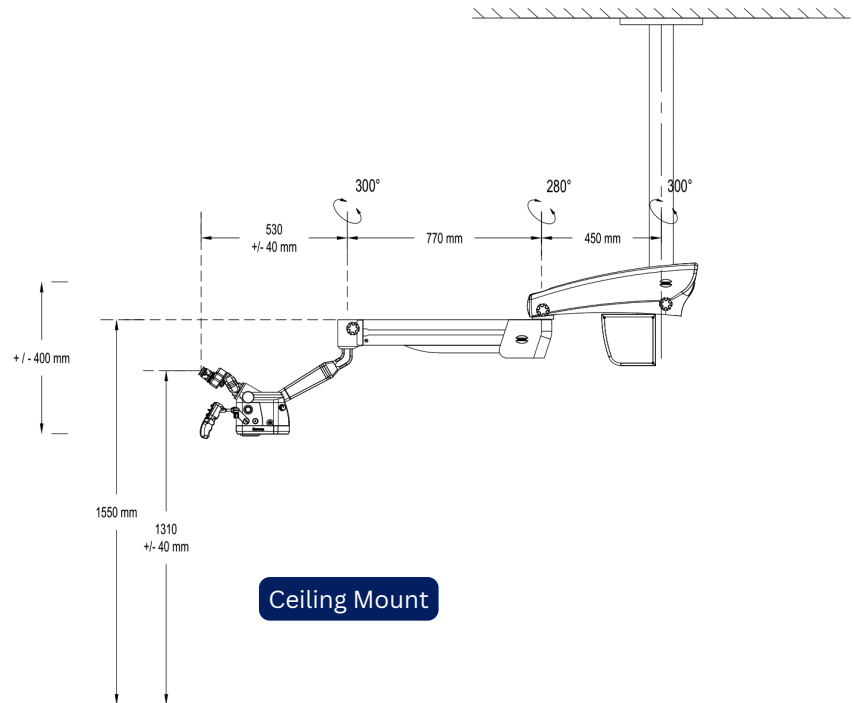
90° straight binocular
eye piece tube



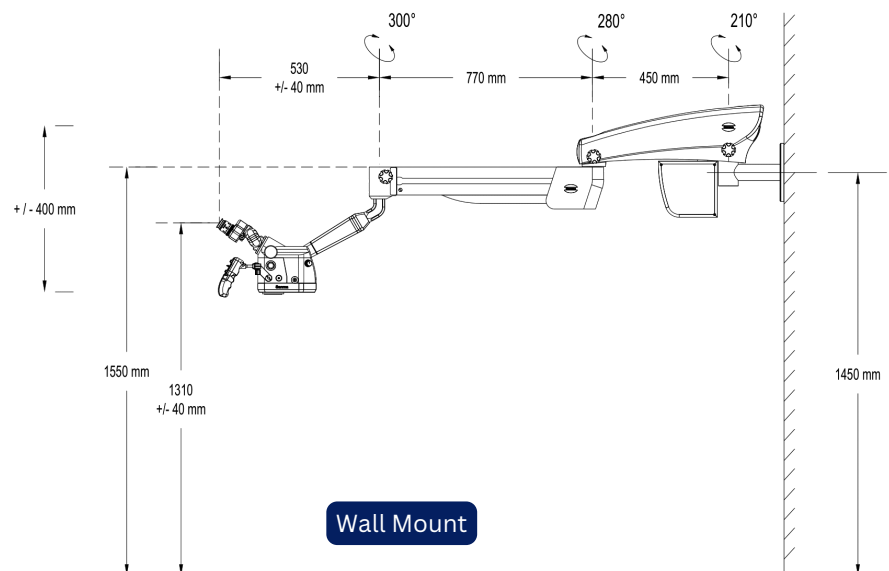
0°-210° tilt able binocular
eye piece tube



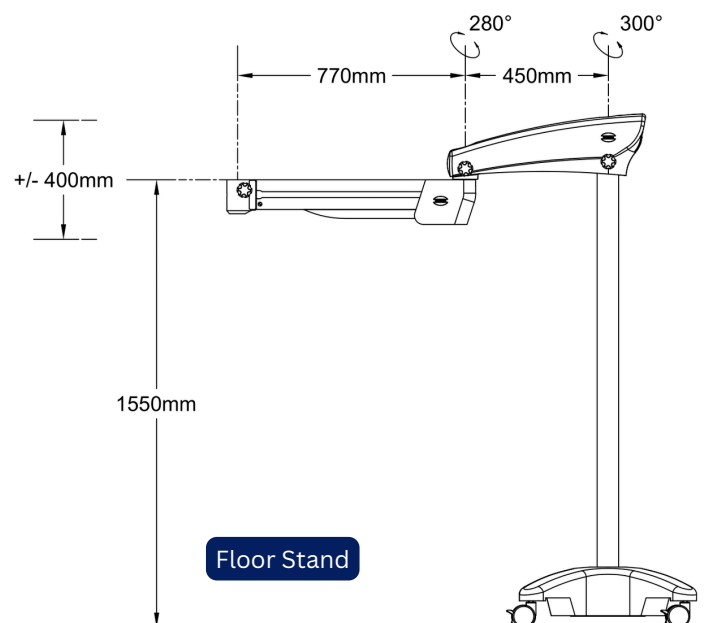
Face to face optical bridge for
lateral view



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"> 90° Straight binocular tube (for ENT) or 0° - 210° tilt able binocular tube (multi-purpose) 	<ul style="list-style-type: none"> Face to face optical bridge for later view with 0° - 210° tilt able binocular tube for spine and P&R
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
IPD	Inter pupillary distance: 50mm to 75mm	
Diopter adjustment	-6D to +6D	-8D to +5D with magnetic locks
Magnification motorized	5 step: 0.4x, 0.6x, 1.0x, 1.6x, 2.5x	1:6 ratio continuous zoom
Working Distance	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"> 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 	<ul style="list-style-type: none"> 4K Monitor* : 24' / 27' <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.





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

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a result of further product development
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