Vis Pro

Ophthalmic Surgical Operating Microscope

Sanma Vis Pro — Designed for the Depths of Retinal Precision

Deep Focus,
Wide **Vision**

Ultra-Bright Posterior Illumination
Uniform illumination engineered to maintain clarity during vitrectomy, endo-laser, membrane peeling, and fluid-air exchange. Adjustable LED illumination minimises glare and retinal photo-toxicity.

Widefield Fundus Optics
High-NA objective designed for full posterior visualization, perfect with BIOM-type add-on systems.

Deep Depth of Field
Stable focus across shifting retinal planes, reducing manual focusing effort during dynamic surgical steps.

Motorised XY control and focus enable precise micro-movements without repositioning

Sanma Vis Pro —
Designed for the Depths of Retinal Precision

Apochromatic Clarity in Every Layer
- True-color retinal imaging
- High contrast for ILM/ERM differentiation
- Anti-reflective coatings for glare-free views

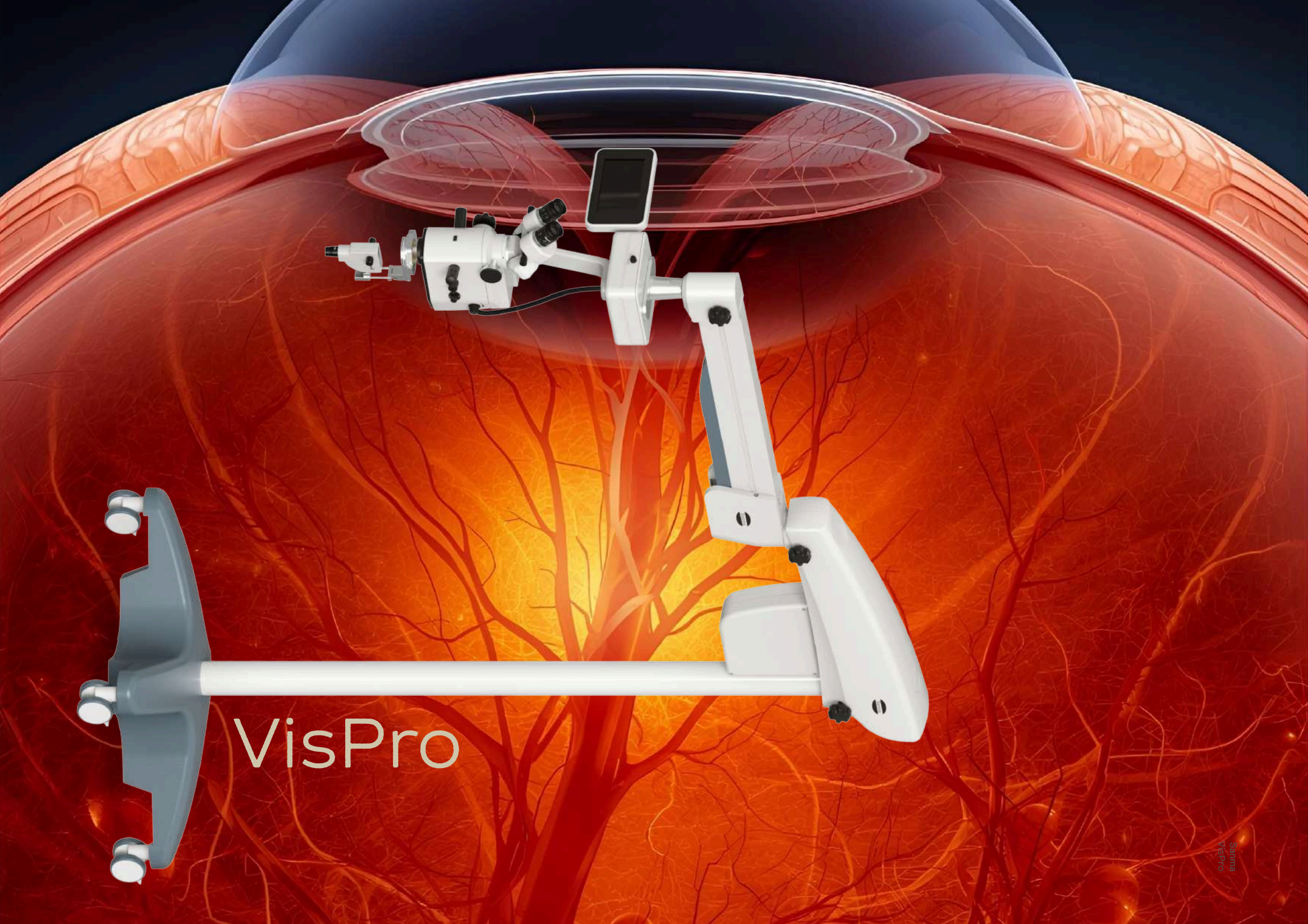
Precision at Your Foot Pedal
- Smooth motorized zoom & micro-focus
- Seamless switching between widefield and high magnification
- Intuitive tactile response designed for retinal workflow

Documentation & Teaching Excellence
- Integrated HD camera
- Real-time recording & assistant view
- Ideal for teaching hospitals & complex surgical demonstrations

Ergonomics for Long Retinal Cases
- Balanced arm system
- Long-range articulation
- Reduces surgeon fatigue over extended procedures

Designed for the Depths of Retinal Precision

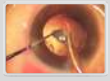
Engineered for Depth, Detail & Delicate Retinal Work
Paragraph in Graphite Grey
Sanma VisPro delivers the high-contrast, wide-field, and deep-focus visualisation required for vitreoretinal surgery. Designed for prolonged procedures and fine-scale retinal manipulation, the system provides unwavering clarity, surgeon comfort, and precise illumination within the posterior segment.



Sanna VisPro

Features	Description	Configurable
Optics	Fully apochromatic Galilean type, broad bandwidth anti-reflective coated	
Binocular tube	Binocular tube: 45º inclined binocular tube, focal length f=170mm, IPD adjustment of 52-76mm.	Binocular tube: 0º - 210º tiltable binocular tube, focula length f=170mm, IPD adjusment of 52-76mm.
Stereo base	22mm	
Eye piece	10x pair of wide field push sleeves & high eye point	
IPD	Inter pupillary distance: 50mm to 75mm	
Diopter adjustment	-6D to +6D	-5D to +8D
Magnification	Motorised zoom 1:6 ratio	
Objective Working Distance	Apochromatic Optics 200mm.	
Motorised focusing	Min: 30mm / Max: 50mm	
Illumination	Illumination: Coaxial LED.	
Field of Illumination	Ø70.5mm	
Intensity control	Continuously adjustable lamp intensity control in handgrip buttons	
XY	X-Y coupling range minimum 40x40mm with XY reset button.	
Foot Pedal	Motorised foot switch control for XY, Zoom, focus, illumination and red-iglow on/off, recorder on/off. (water proof).	
Arm Movement	Articulated spring balance, well counter balance for smooth positioning	
Floor Stand	Stable and sturdy rust free floor stand on 4 smooth castor wheels with 2 lockable	
Imaging System	• Integrated full HD Camera with Video recording & still image storage • 7" TFT Monitor integrated with carrier arm	
Power	AC 100 – 120V/220-240V, 50-60Hz 280V	
Asepsis	Sterilisable autoclave able silicon caps for all control knob - 2 Sets.	

Configurable Imaging System



FULL HD
1928x1080

4K
3840 x 2160

REC
Live Video &
Still image

3D 4K ULTRA HD

Monitor
27" / 32"

Compatibility with Accessories

- Works seamlessly with BIOM-type wide-angle viewing systems
- Compatible with endoilluminator and 3D visualisation add-ons
- 45º or 0º - 210º tilt able binocular tube

Sanma's 3D Camera System in Cataract & Retinal Surgical Procedures

Enhanced Depth Perception

- Provides optimal natural stereoscopic depth.
- Surgeons can assess spatial relationships of ocular structures more accurately.
- Essential for precision in capsulorhexis, nucleus manipulation, membrane peeling, and vitreous base shaving.

Superior Teaching & Training Experience

- Entire OR team sees the same 3D view as the surgeon.
- Trainees understand instrument handling, tissue planes, and surgical flow more intuitively.
- Allows teaching of complex steps in retinal surgery (e.g., ILM peeling) with unmatched clarity.

Ergonomically Comfortable Surgery

- Surgeons operate looking straight at a 3D monitor, reducing neck and back strain.
- Longer retinal procedures become more comfortable and stable.
- Minimizes fatigue, supporting higher surgical precision.

Digital Image Enhancement in Real Time

- Adjustable contrast, brightness, color saturation, and digital zoom.
- Enhances visibility in low-light or media-opacified situations.
- Useful in retinal surgeries requiring delicate visualization—especially macular work and membrane differentiation.

Wider Field of View for the Surgical Team

- Everyone—assistant, scrub nurse, anesthetist—shares the same high-definition 3D picture.
- Improved coordination during critical steps such as IOL insertion, endolaser, or fluid-air exchange.

improves Documentation & Case Review

- High-resolution 3D video recording.
- Enables post-operative review, academic presentations, and digital archiving.
- Ideal for teaching hospitals and surgical training programs.

Sanma 3D Visualisation Elevates Every Eye Surgi Procedure

Specifications		
	• Sensor: 2X 1/1.3" CMOS sensor • Resolution: 4K UHD - 3840x2160 • Video output: 2X 3G-SDI • 3D output: side by side • Recording format: 3D & 2D, MP4 / MOV • Still image: 2D / 3D .jpeg, PNG • HDD: 4TB • Motorised adjustable monitor stand	▪ Monitor* : 32" / 55"

Sanma
VisPro

Ophthalmic Surgical Operating Microscope

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/0004755

www.sanmas.com

Sanma Vis Pro –
Retina Surgery Excellence

Sanma Medineers Vision PVT LTD
68-A, Aavin Dairy Road, North Phase,
SIDCO Industrial Estate, Ambattur,
Chennai, TN - 600098, India

Email: sales@sanmas.com