3D Microvision

New Standard for Ultra-Precision 3D Surgery

SCOPEYE®



3D EXOSCOPE

The new standard for **ultra-precision 3D surgery** has arrived. Designed specifically for surgeons who demand exceptional visualization capabilities, the 3D Microvision represents a breakthrough in surgical technology that enhances precision, reduces fatigue, and improves patient outcomes.

MediThinQ

Ronda MedTech

OUR VISION & WHY IT MATTERS

limitations of traditional 2D surgery tools



The Challenge

- Limited depth percetion
- Poor ergonomics
- Reducced surgical accuracy

Empowering surgeons with smarter vision

Overcomingthe limitations of 2D visualization, **3D surgical vision** is transforming surgery worldwide - **improving precison, safety, and efficiency**.

Our solution

- Enhanced 3D visualization
- Improved surgical outcomes
- Ergonomic design



> **We create a future surgical environment centered on the surgeon.**

Growing Global Demand

Advancements in Technology

Focus on Minimally Invasive Surgery

KEY FEATURES

3D Exoscope



3D Ultra-HD Microscope
with real-time visualization

Provides ultra-high-definition, stereoscopic live imaging of the surgical field.

20× Zoom
for delicate tissue control

Offers up to 20× magnification to assist with fine dissection and tissue handling.

Dynamic Multi-Angle Camera Control

The camera angle can be flexibly adjusted (tilt and rotate) to suit various surgical approaches.

Ergonomic & Lightweight
design for long surgeries

Designed with surgeon comfort in mind for extended operating times. (295 g)

Simple Installation
Plug & Play

No complicated setup; ready to use instantly after connection.

Education / Recording
Functions

Allows seamless recording of procedures for education and review.

LIVE STREAMING · REC · Multi-User Capability

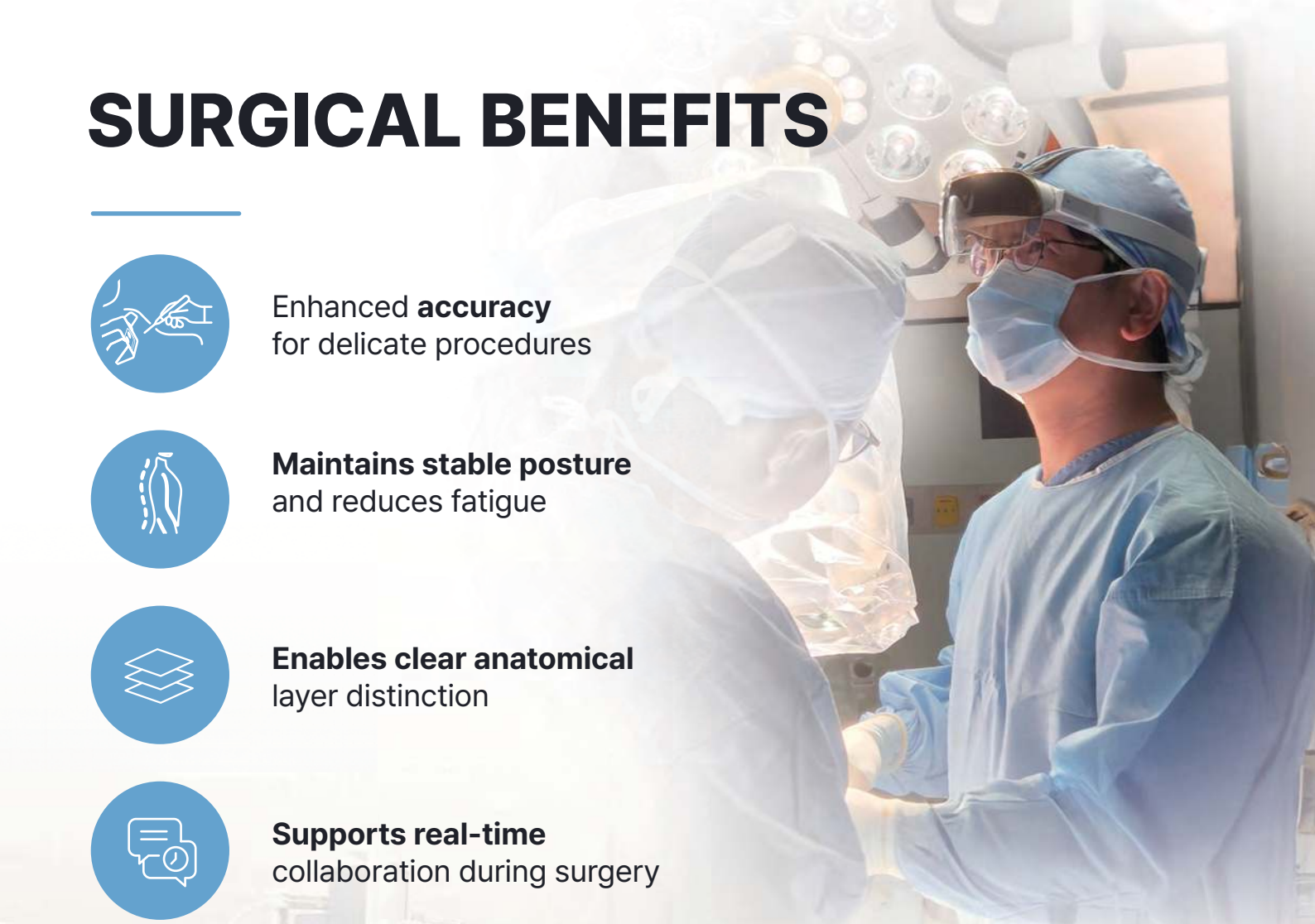
SURGICAL BENEFITS

Enhanced **accuracy** for delicate procedures

Maintains stable posture and reduces fatigue

Enables clear anatomical layer distinction

Supports real-time collaboration during surgery



The **3D Microvision system** enhances surgical precision by **providing clear anatomical visualization, supporting stable posture to reduce fatigue, and enabling real-time collaboration throughout delicate procedures**.

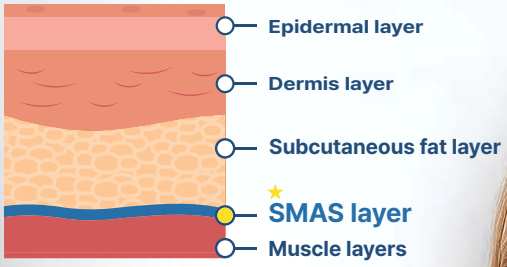




PATIENT BENEFITS

By providing high-definition,
real-time **3D visualization**, the 3D Microvision system minimizes unnecessary tissue damage,protects nerves, and supports anatomy-based SMAS lifting.

This leads to **safer, more natural-looking, and longer-lasting results** — with **less bleeding, less scarring, and greater patient satisfaction.**





Minimized tissue damage
(less bleeding, scarring)

Reduced risk
of nerve damage

Tailored SMAS-level lifting
based on anatomy

More natural & lasting results

Smarter vision for safer, more precise surgery

3D Microvision

3D Microvision is a surgical smart vision system that delivers real-time ultra-HD 3D imaging with up to 20× zoom, allowing surgeons to see the surgical field more clearly and operate more precisely.

Widely used in facelift, microsurgery, dental, ENT, robotic surgery, and medical training.



SCOPEYE Feather

Optical Type: Binocular, Form Factor : Detachable Visor
1920 × 1080 60fps, 44° FOV (Field of View)
Weight: 295 g

2 SCOPEYE Feather can be connected

Eyes Up Display that can recognize real-time surgical images and the external environment simultaneously

CE FDA **ISO 13485**

3D Exoscope

Arm
Consists of 4 joints and can be adjusted to various angles

20x zoom
It offers both optical and digital zoom, allowing you to enlarge images up to 20 times their original size for detailed observation.

LED lighting
Light intensity up to 25klx (distance 250mm)

GERMAN OPTICAL TECHNOLOGY

Touch displays
Autofocus, zoom and lighting settings

Superior autofocus
With advanced autofocus, images remain crisp and clear even when viewing specimens at varying depths. This enhanced depth of focus gives you a complete view that goes beyond the capabilities of a typical microscope.

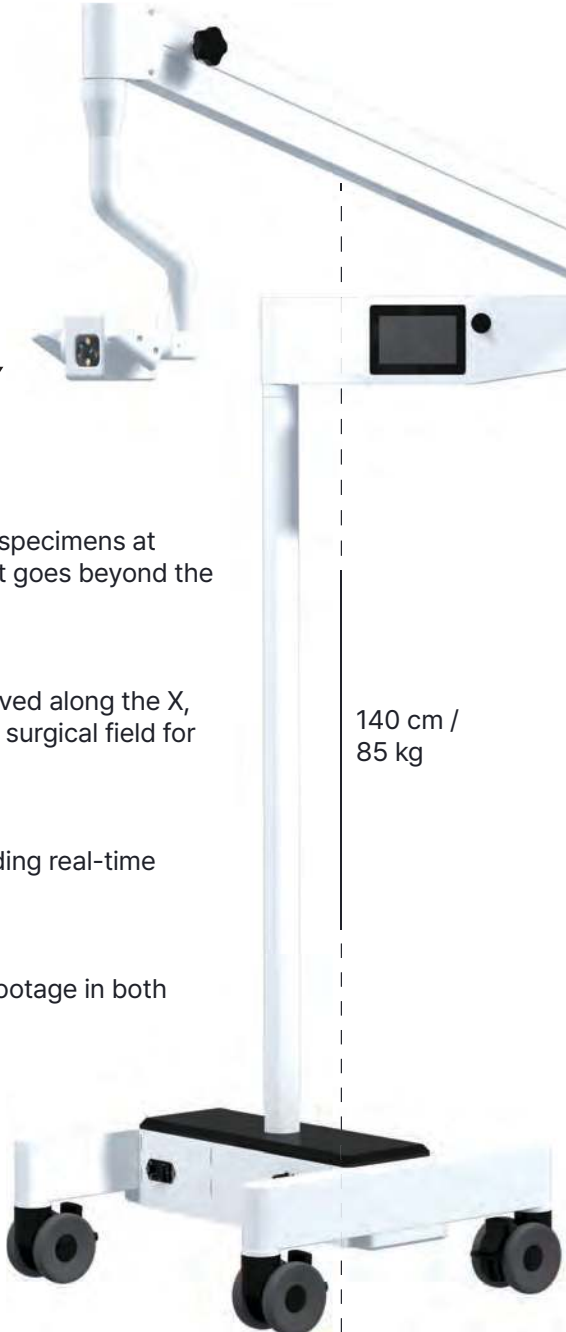
FOV Magnifier Module
Equipped with a field of view (FOV) magnification module, it can be easily moved along the X, Y, and Z axes. This feature enables precise positioning and adjustment of the surgical field for detailed examination from multiple angles.

2D / 3D recording available
Increase diversity and compatibility within healthcare environments by recording real-time video.

Can connect 2D / 3D monitors
It can connect to both 2D and 3D monitors, giving you the flexibility to view footage in both formats.

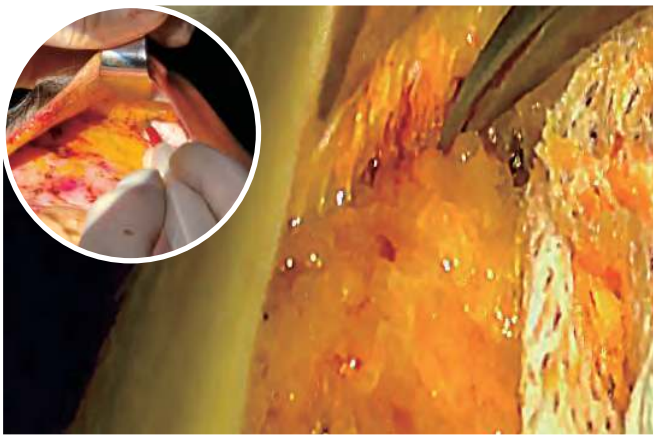
Wireless foot swhitch
You can adjust the zoom and autofocus.

3D LIVE STREAMING REC Multi-User Capability



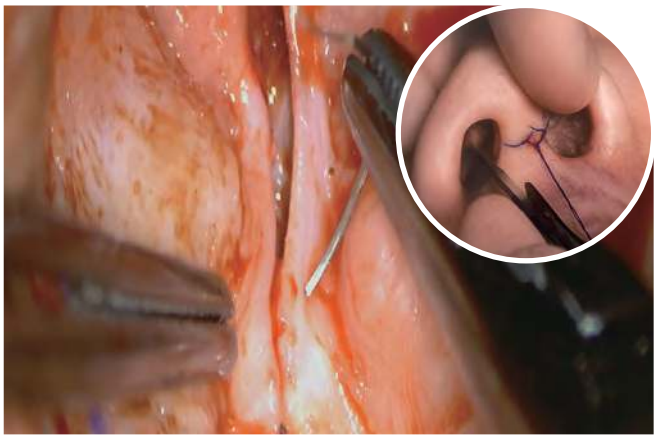
CLINICAL APPLICATIONS

3D Microvision helps you see the surgical site better and work more accurately in a variety of fields.
As a result, surgery becomes safer, easier, and more precise.



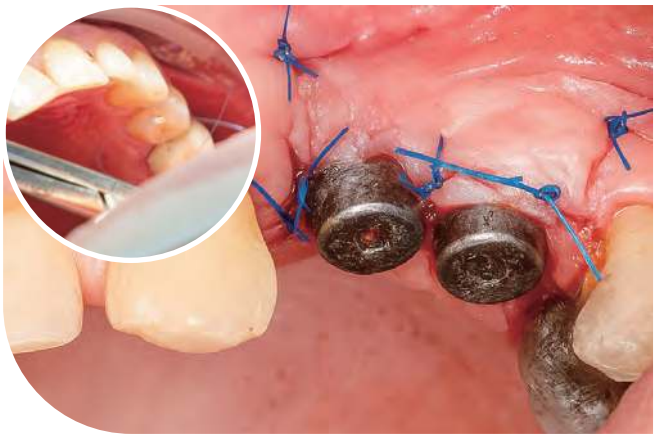
Face Lift (SMAS Dissection)

Enables high-magnification, 3D visualization of the SMAS layer, allowing for **precise dissection with minimal tissue damage** and improved aesthetic outcomes.



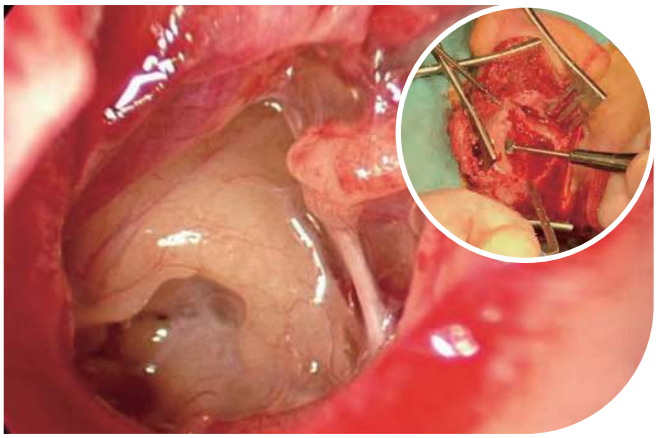
Plastic & Reconstructive Microsurgery

Assists in **fine tissue handling and vascular anastomosis** by providing real-time, ultra-precise imaging—critical for restoring function and form.



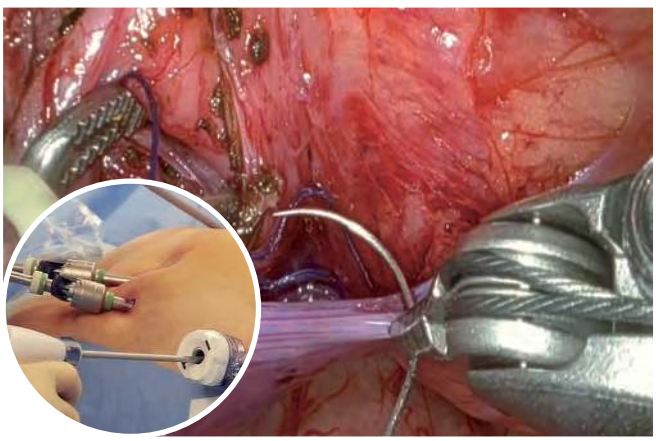
Dental / Oral Surgery

Supports **precise incision, flap design, and nerve identification** in procedures such as implant placement or jaw reconstruction, improving safety and accuracy.



ENT / Otology (Ear, Nose, Throat)

Offers **deep, narrow-field 3D visibility** in regions like the middle ear, enhancing clarity in microsurgical ENT operations.



Robotic Surgery Assistance

Acts as a **real-time auxiliary visual system**, enhancing surgeon awareness during robotic procedures with additional 3D perspectives.



Medical Education & Training

Records and streams **stereoscopic surgical footage** for use in education, simulation, and surgeon training programs.

From 3D Microvision to AI precision

Beyond vision – Building the next-generation surgical ecosystem.
3D Microvision doesn't just visualize surgery — it **captures, records, and builds data.**
This high-resolution 3D surgical data feeds into an **AI deep learning model**, enabling smarter surgical planning, real-time guidance, post-op review, and future training.
It's more than a device — it's a **platform for precision, education, and innovation.**





3D Exoscope

- Real-time 3D UHD visualization
- 20× Zoom capture

Data recording

AI Deep Learning

- Tranined with surgical video, motion patters, anatomylayers

AI-Assisted Planning

- Risk zone predication
- Layer dissection simulation

Real-Time Guidance

- Anatomical alerts
- Trajectory mapping
- Stability feedback

AI-Based Review

- Skill analysis
- Anomaly detection
- Performance scoring

Data recording

Provides ultra-HD 3D real-time views of the surgical field, with video recording for review, training, and AI learning

AI-Powered Surgical Planning

Deep learning analyzes anatomy and risk zones to suggest personalized surgical strategies

Intraoperative AI Guidance

Real-time AI alerts help detect risks and enhance safety and accuracy during procedures

Postoperative Review & Analysis

Recorded data supports self-assessment, performance review, and continuous improvement

Medical Education & Simulation

Utilizes real surgical data to create 3D-based content for training residents and educational platforms

Future-Ready Smart Platform

Beyond a device — it's a data-driven, intelligent system designed for precision, learning, and innovation

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