

Press Release – Immediate Release

Enschede, the Netherlands - February 19, 2026

Enhanced patient safety through inventions that reshape surgical training

In 2026 JJ-MEDTECH introduces a new revolutionary extended reality headset on the major European medical conventions. This immersive technology combined with life-like anatomical models called phantoms will dramatically reshape the way surgeons and their teams practice their skills. Improving the training of resident doctors, experienced surgeons and their teams will lead to better patient safety.

Wireless extended reality headset and phantoms

VioVision XR-S (Extended Reality-System) for surgical training, is a wireless headset with advanced technology, high end hardware and patented software. The innovative headset is worn by student surgeons and physician assistants. Its key features include first-person surgeon cameras, miniature projectors, and see-through lenses, that function as movie screens. The set includes an advanced touch screen laptop and a wireless hub that is operated by the student. The student doctor wears this immersive headset and practices on a phantom that feels very real and that consists of a special hydrogel and contains skin, fat, muscle tissue and a specific medical artifact. By practicing on phantoms, surgical training is brought outside of the operating room, and will result in enhanced patient safety.

Remote training of complete teams

Both inventions enable remote training. A teacher, maybe a specialist doctor, or someone who invented a new procedure, will coach the pupil online from another place in the world through teleconferencing software. The first-person cameras allow instructors to see what their student is seeing. While the student learns a new procedure and wears the headset, the instructor sees the entire operation site. The remote teacher vocally coaches the student through the headset's integrated audio. The patented software lets teachers draw on their own screens, to give hints or mark a specific location in the phantom or patients' anatomy, while these drawings instantly appear on the see through glasses in front of the (remote) student's eyes. The audio of the trainer can be output to a BT speaker for a whole team to listen in.

Overlaid X-ray, ultrasound and/or other monitor data

Many procedures are done using image guidance and or under X-ray. This requires the surgeon to look at one or two monitors (e.g. ultrasound) rather than their hands and the operative site. This might cause a distraction. By displaying the live video streams or images from these monitors on the see-through lenses built in the headset, directly to the surgeons' eyes, they stay focused on the operative site and their hands. Student physicians, rather than turning their heads to look at monitors, see the patient with the monitor images overlaid on the operative site. It gives students a sense of looking inside the patient and a "superhuman" feeling: their visual perception is enhanced beyond normal capabilities.

Instructor sees what the student sees

If the instructors are remote, they can see the student first-person view of the students and these live video images. VioVision XR-S runs on patented software that arranges the different images and allows the instructor to provide annotations that can be viewed direct in the student's eyes.

Full market launch of the new wireless system

VioVision XR-S had a pre-market release in 2024-2025. It has been validated by over 200 surgeons and along with the phantoms, has experienced more than 20 print and video publications. The system is currently being used in Europe and the United States. When first wearing the headset a doctor in New York stated: "Wow, I can see the patient, my hands and the monitor streams in front of my eyes!" Full market launch of the new wireless system for Europe, Middle East and Africa is planned in 2026 at the major European medical conventions like EAU in London, UK and EUROSPINE in Gothenburg, Sweden.

Quote of doctor in New York:

"Wow, I can see the patient, my hands and all monitor streams in front of my eyes"

JJ-MEDTECH

JJ-MEDTECH, based out of Enschede, the Netherlands has a focus on products and services for precise diagnostics and treatment of cancer, immersive technology and advanced models for medical training. It offers state-of-the-art technology and medical devices. CEO and founder is Jos Groeskamp, a multilingual (German, English and Dutch) entrepreneur and medical device developer. JJ-MEDTECH has an extensive network, built through Groeskamp's long-standing relationships developed over more than 35 years in the medical device industry across cardiology, radiology, urology, gynecology, radiotherapy, and medical physics. Personal service and dedicated support are at the heart of the company. JJ-MEDTECH works closely with Medical Device Companies, who seek out their expertise to produce these educational products to safely and rapidly onboard their customers. In 2025, JJ-MEDTECH proudly celebrated its 10th anniversary, marking a decade of innovation, growth, and strong international collaboration.

VIOMERSE

JJ-MEDTECH holds a strategic alliance with VIOMERSE Inc, a New York State based company, that covers sales, marketing, training and warehousing services in Europe, Middle East and Africa (EMEA), from out of the Enschede facilities in the Netherlands.

Medical phantoms

VIOMERSE started 6 years ago with the development of artificial neurosurgical models, called phantoms. Soon after, VIOMERSE began working with Groeskamp and developed a urology line of phantoms starting with prostate models for training and education in the diagnosis and treatment of prostate cancer. The phantoms provide a critical need to help train specialists and resident doctors. VIOMERSE now produces a full line models/phantoms for Neurosurgery, Spine Surgery, Urology, Gynecology, Radiotherapy and Pain Management.

VioVision XR-S (Extended Reality-System)

In addition to these lifelike models VIOMERSE has also developed a system to remotely train doctors and the entire surgical teams, with high end hardware and software. VioVision XR-S (Extended Reality-System), developed by doctors for doctors, was initially launched in 2024 and has now been upgraded to a wireless system incorporating the latest technology currently unavailable to competitors.

NOTE TO EDITORS (NOT FOR PUBLICATION):

For more information or interview requests please contact:

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(At the International Business Science Park, next to the University of Twente)

Events Mentioned in the Press Release:

European Association of Urology, Annual EAU Congress

London, UK, 13-16 March 2026, eaucongress.uroweb.org

EUROSPINE, European congress for spine surgery and spinal care

Gothenburg, Sweden, 7-9 October 2026, www.eurospine.org/events/annual-meeting/2026

Full press kit, including the press release and high-resolution images, available here: <https://www.jj-medtech.nl/press/>