TRENION 3D HD
Advancing surgical education and training
The next step in surgical visualization
An immersive learning experience

Knowledge transfer of complex anatomical concepts, close engagement of the neurosurgical staff and the development of incisive educational presentations are all challenges facing the modern day neurosurgeon.

Enter TRENION™ 3D HD.

A novel stereoscopic, high-definition video system, TRENION 3D HD extends the frontiers of surgical visualization. Leveraging the open platform approach of the gold standard OPMI® PENTERO® 900 visualization system, TRENION 3D HD enables surgeons to effectively share brilliant, three dimensional images only previously seen through the eyepieces of a surgical microscope.

Whether in real-time or prerecorded, surgeons can now fully engage residents, operating room staff and conference attendees in an immersive, fully stereoscopic, high-definition surgical experience – all with the vision of advancing neurosurgical technique.

Optical Performance
TRENION 3D HD delivers brilliant, stereoscopic images leveraging Carl Zeiss apochromatic technology. The 3D visualization of the visual field enables a more comprehensive and detailed understanding of complex anatomy. Live streaming capability in full HD quality enhances the educational experience to audiences outside of the operating room.

Simplicity
The simple to use design introduced with TRENION 3D HD enables surgeons to focus on the clinical procedure. Simultaneous video recording on the external USB hard drive and integrated recorder allows for quick access to the video file immediately after surgery. System start-up at the press of a button is another design element that enables simple operation of the system.

Integration
TRENION 3D HD seamlessly integrates with OPMI PENTERO 900 in both form and function. Without compromising microscope balance and movement, TRENION 3D HD introduces a higher level of surgical education. With an elegant and compact design, surgeon controlled video capture at the push of a button and integration into existing IT infrastructures, TRENION 3D HD is well equipped to advance education and training in different customer environments.

Image Courtesy of:
Barrow Neurological Institute, Phoenix, Arizona, USA