

Information for members of the Anatomical Society & other visitors to the Winter 2018 Meeting at HYMS

ALIOSCOPY is the French company, based in Paris, that manufactures the world's most advanced auto-stereoscopic/glasses-free 3D Displays. These 3D Displays use lenticular glass lens arrays & associated 3D software for which Alioscopy hold a host of international patents... and every lens array is produced exclusively in-house, utilising an engineering process invented by the company's founder, Pierre Allio. *NB: Alioscopy's UK-based partner Jim Harvey - digital2go will be making demonstrations and is ready to answer your questions on Monday 17th and Tuesday 18th December.*

Working with the acclaimed **IRCAD** Surgical Training Institute, Alioscopy has developed a unique auto-stereoscopic **DICOM 3D imaging application** - that is now being used at a number of high-profile medical schools/universities, including; Oxford, King's College London, Manchester, Leeds, Newcastle, Nottingham, Aberdeen & Exeter in the UK - plus Stanford, St. Mary's & others in the US.

All attendees are invited to view & try this unique software - which allows interactive 3D models to be generated in real-time from standard DICOM datasets. Every Alioscopy glasses-free 3D Display is natively compatible with this software app, and we believe that this combination represents an important and unmatched resource for the teaching & presentation of anatomy in medical schools.

Another joint development project, carried out under the French **3D-SURG** initiative, aims to deliver touch-free/glasses-free 3D solutions as part of a range of breakthrough technologies for image-guided surgery, incorporating the 3D modelling of patients. The left-side image below shows Alioscopy's 31.5" 3D UltraHD/4K portrait display & Leap Motion touch-free controller.

Alioscopy's revolutionary real-time stereo to auto-stereo conversion solution - which allows the stereo images from a 3D Endoscope (or other L/R stereo source) to be viewed directly on an Alioscopy auto-stereoscopic/glasses-free display - is also being previewed at this Anatomical Society meeting. Currently, 3D Endoscope footage can be captured and used for training purposes, but the work to finalise and deliver a fully-accredited solution for surgeons has been given the highest R&D priority by all of the technical partners involved. The right-side image below shows a sample frame on the Alioscopy 55" 3D HD landscape display... and demonstrations/information will be provided on request.

The current range of HD & UltraHD/4K glasses-free 3D Displays from Alioscopy goes from 10.5" up to a 110" 4K Video Wall, while the latest 65" (Portrait) 84" (Landscape) 3D UltraHD/4K displays are delivering the highest-ever standards of 3D definition & image-quality. In relation to anatomical/surgical/medical training content, Alioscopy works closely with a wide range of specialised CGI & video/photo content providers - and software plugins for UNITY, Cinema 4D, 3Ds Max & Maya allow all developers of 3D creative work to use their standard 3D software applications to generate interactive, auto-stereoscopic/glasses-free 3D content in the patented Alioscopy format.

Glasses-Free / Auto-Stereoscopic

3D

For Medical Imaging & Training

unique volumetric
DICOM 3D
medical imaging

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