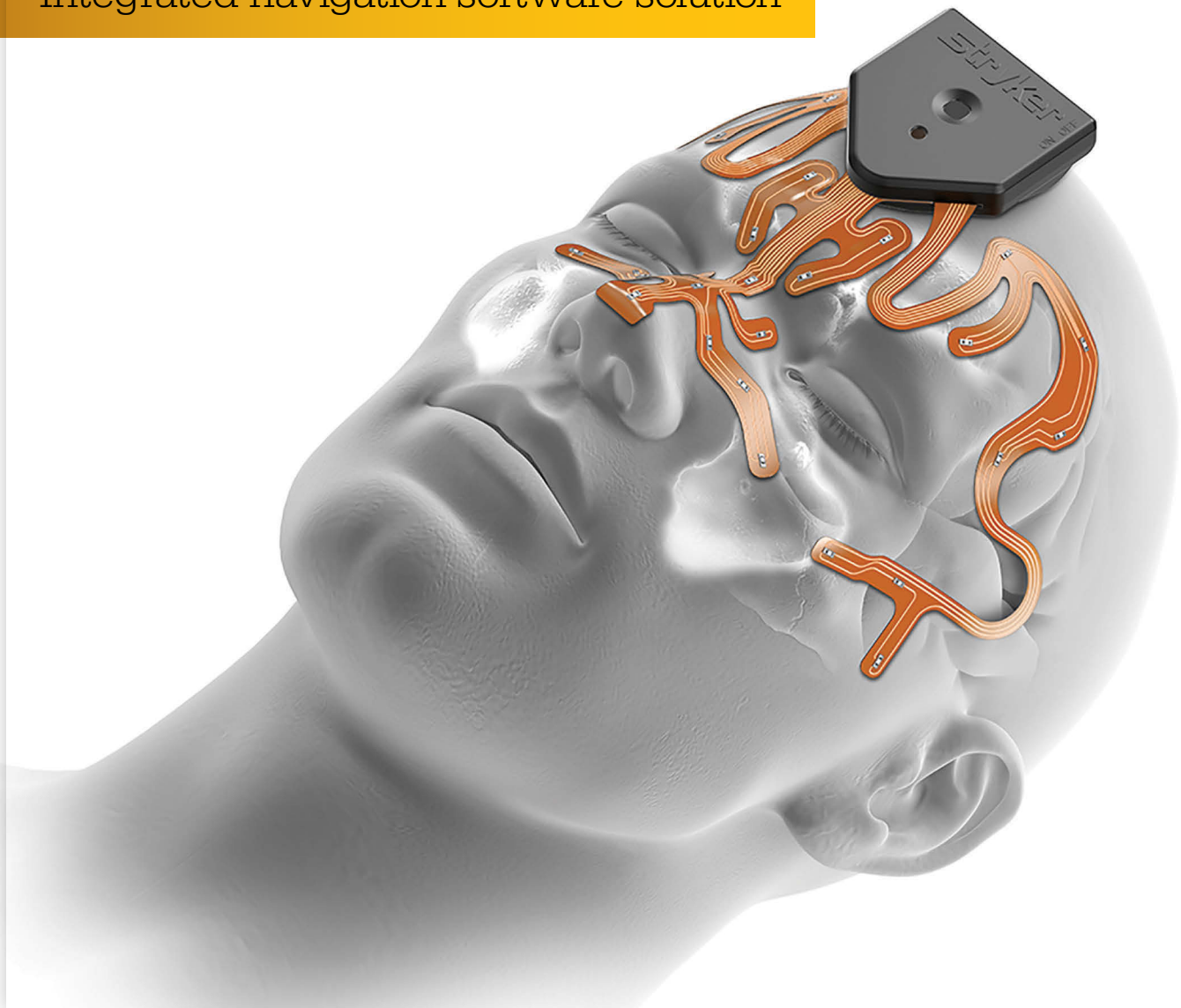


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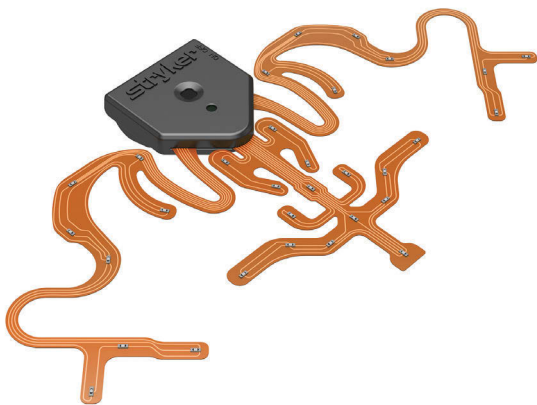
CranialMap® 3.0

Integrated navigation software solution



Total navigation **solution**

CranialMap 3.0 Navigation Software is a simplified solution to incorporate navigation into neurosurgical procedures. From pre-op planning to intra-operative guidance and control, CranialMap 3.0 has been designed to meet the demands in today's operating room and help deliver better patient outcomes.



CranialMask Tracker

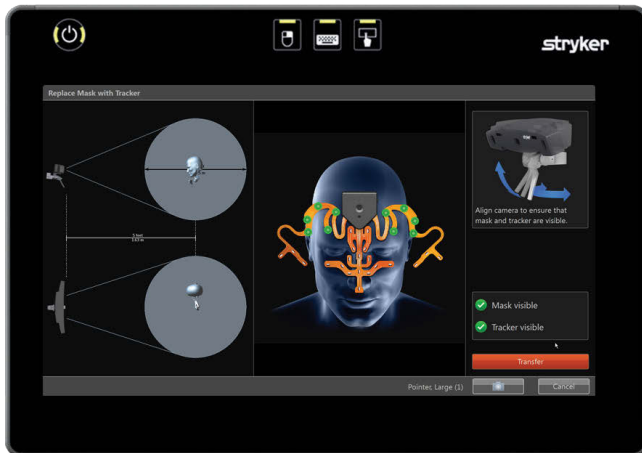
- Offers a "pin-less" navigation solution
- Scan patient without fiducial markers
- Fully automated and simple registration process



Stryker's proprietary navigation camera

- Utilizes active, optical technology
- Delivers industry-leading accuracy for navigated procedures¹
- Smart instruments with LED-based technology enable wireless control of the software from the sterile field



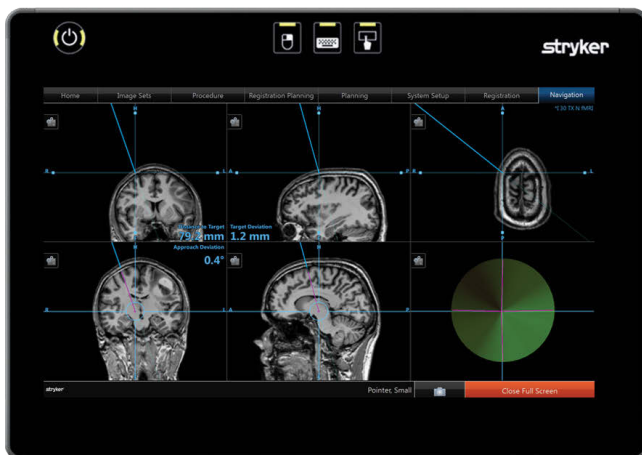


Flexibility to accommodate prone/lateral approaches

- Stryker NAV3i's camera arm range of motion allows for easy positioning of the navigation camera
- Built-in step-by-step workflow with mask registration and transfer to patient tracker
- Lateral visibility of the mask for patient tracking

Advanced imaging visualization

- Import DTI/fMRI functional overlays and other advanced image sets
- Mirroring capabilities to overlay native anatomical images for reconstructive CMF surgeries

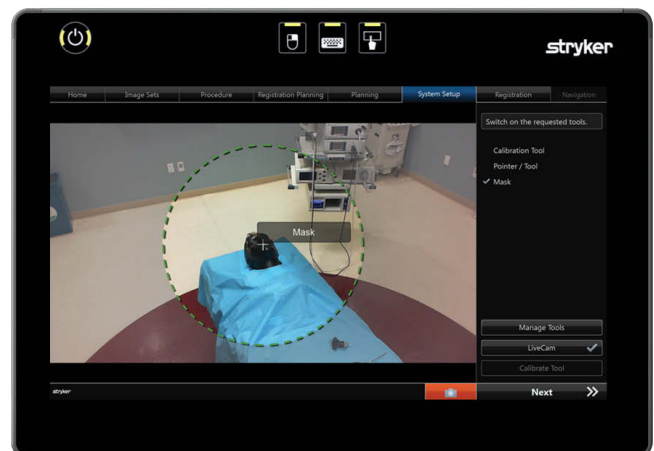


Customizable navigation views

- Configure views based on surgeon's preference
- Biopsy view with multi-planar 3D and target views on one screen

Notable software features

- Image import via DICOM query/retrieve
- Microscope integration allows tracking of the surgeon's line of visualization and focal point during navigated surgery
- Frameless DBS capabilities with atlas options
- Built-in LiveCam feature for simplified instrument setup



Navigation

References

1. Elfring R, de la Fuente M, Radermacher K. Assessment of optical localizer accuracy for computer-aided surgery systems. *Comput Aided Surg.* 2010;15(1-3):1-12.

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