

CURVE™

Image Guided Surgery

THE ULTIMATE COMMAND AND CONTROL CENTER

FOR INFORMATION-GUIDED SURGERY

Features building benefits, Curve™ Image Guided Surgery challenges conventional navigation utility. Super smart ergonomics, multi-directional touch terminals, digital HD, hi-fi and wi-fi*.

Together we empower surgeons with the latest image-guided computer technology and navigation information, increasing the power to foster collaboration and potentially improve patient outcomes.

READY/SET CURVE

Brainlab is once again changing the way doctors navigate intra-operative information and technology.

A thousand enhancements based on feedback from thousands of customers make Curve™ Image Guided Surgery a powerful new information gateway connecting tools both in and outside the operating room.

15 YEARS OF BRAINLAB IGS INNOVATION

- FIRST passive marker system
- FIRST touch-based navigation software
- FIRST markerless registration
- FIRST multi-touch surgical viewer (Digital LightBox®)

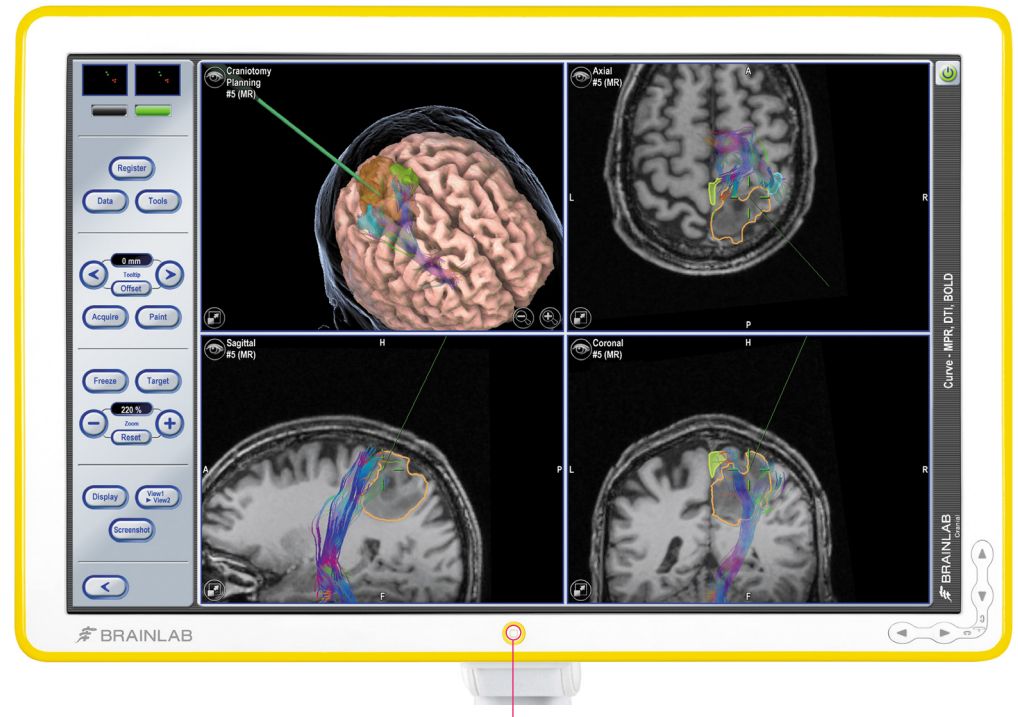


VIEW/ENHANCE ENRICH/DRIVE

Curve™ Image Guided Surgery is the ultimate command and control center for information-guided surgery. Surgeons optimize navigation with pre-op planning and surgical visualization.

Accessible at the touch of a sterile touchpen or non-sterile finger, Curve is bigger, brighter, sharper and faster.

- Dual-option, beyond HD, 26-inch touch monitors with 16:10 screen ratio provide more space to display and efficiently organize information; surgeons are guided by images from multiple views helping increase decision-making confidence
- Surface acoustic wave touch technology decreases display deterioration, enhances 3D software images and produces higher contrast for crystal clear tissue differentiation
- 1920 x 1200 pixels per display for 2D and 3D images that are beyond HD and beyond big, offering more anatomical detail
- The latest image guidance software powers advanced 3D displays and hallmark Brainlab image enrichment coupled with a super fast refresh rate high performance
- Surgeons shift easily from DICOM viewing to surgical navigation to video routing, controlling the clinical workflow with a touch of the permanent **'HOME'** button





CURVE
MPR, DTI, BOLD



Export



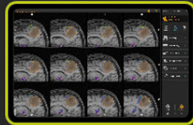
About



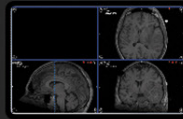
Exit

APPLICATIONS

SOURCES



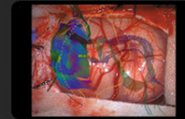
Interactive DICOM Viewer



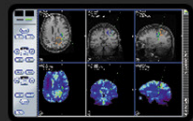
Cranial 2.1 Extended Navigation View



Spine & Trauma 3D



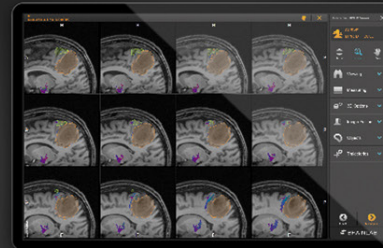
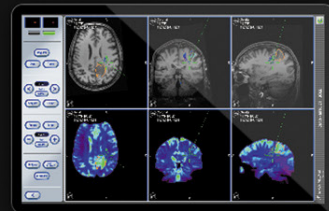
Cranial 2.1 Live Video



Cranial 2.1



ENT 2.1



Capture

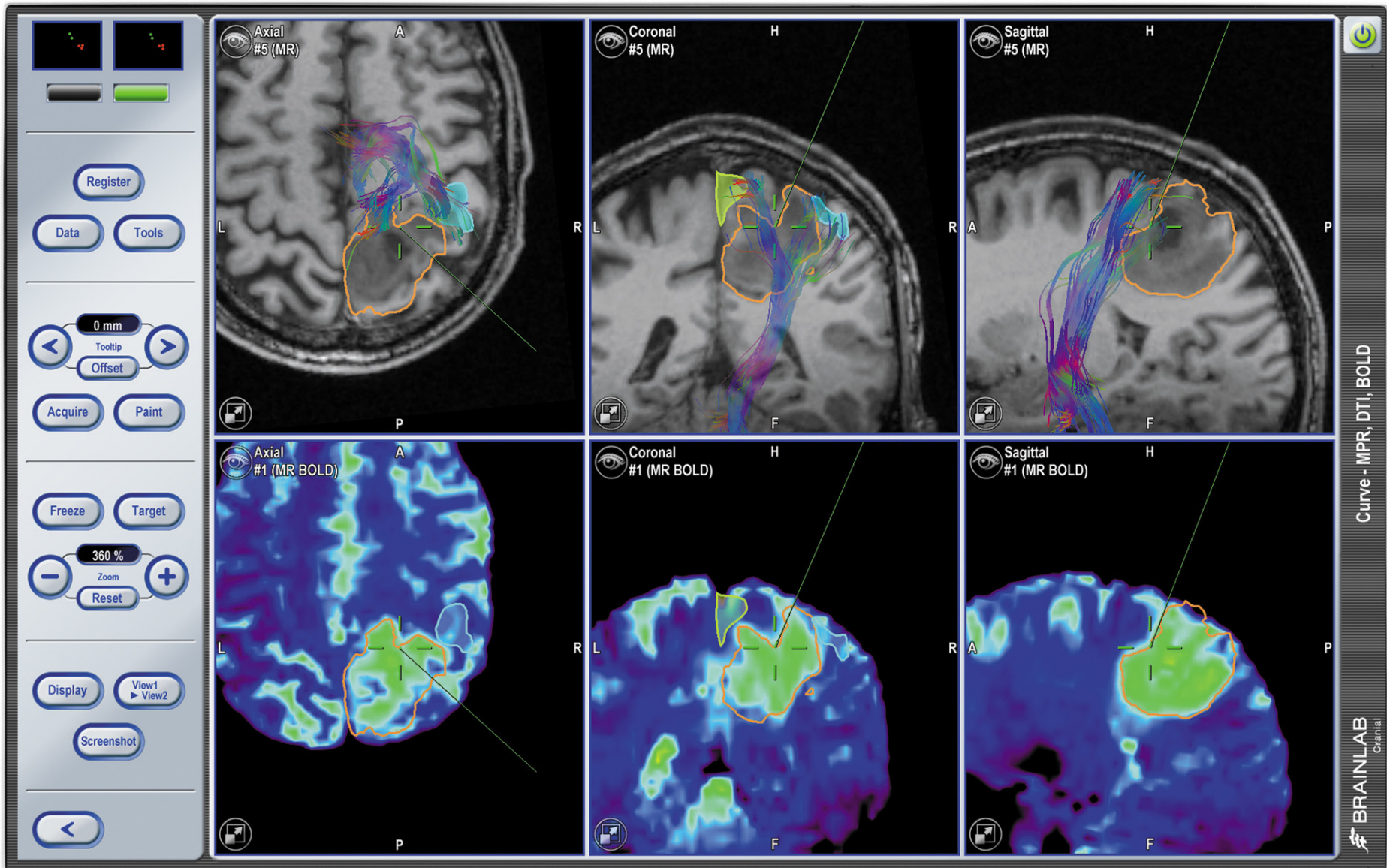


Record



Stream





BRAINLAB



#5
Sagittal Slices 117 to 128 (of 192)

Interactive DICOM Viewer

- CURVE
- MPR, DTI, BOLD

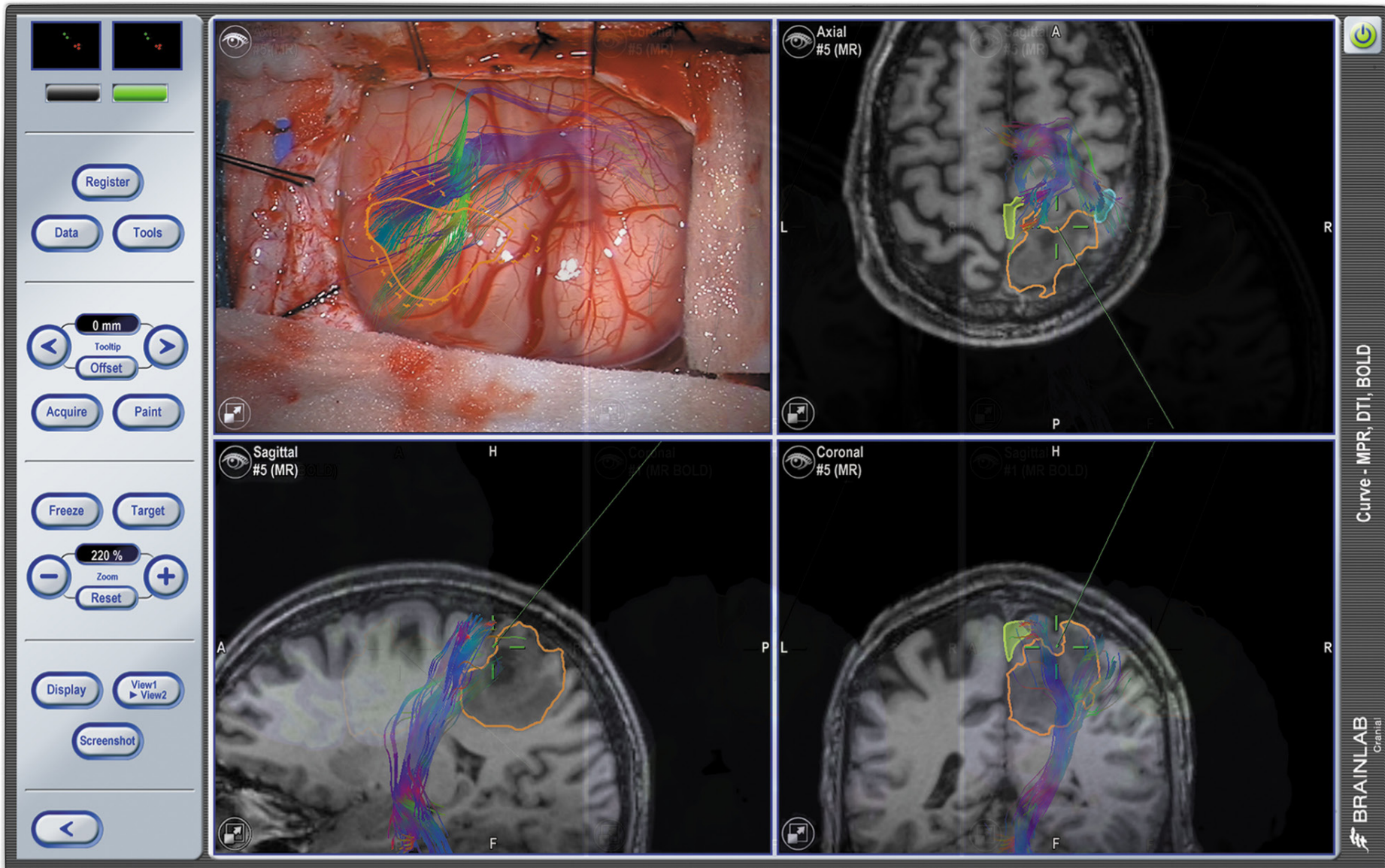
Scroll Zoom Pan

Viewing Measuring 3D Options Image Fusion Objects Trajectories

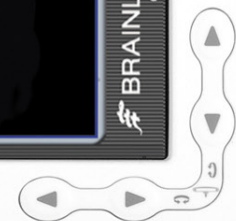
Back Navigate

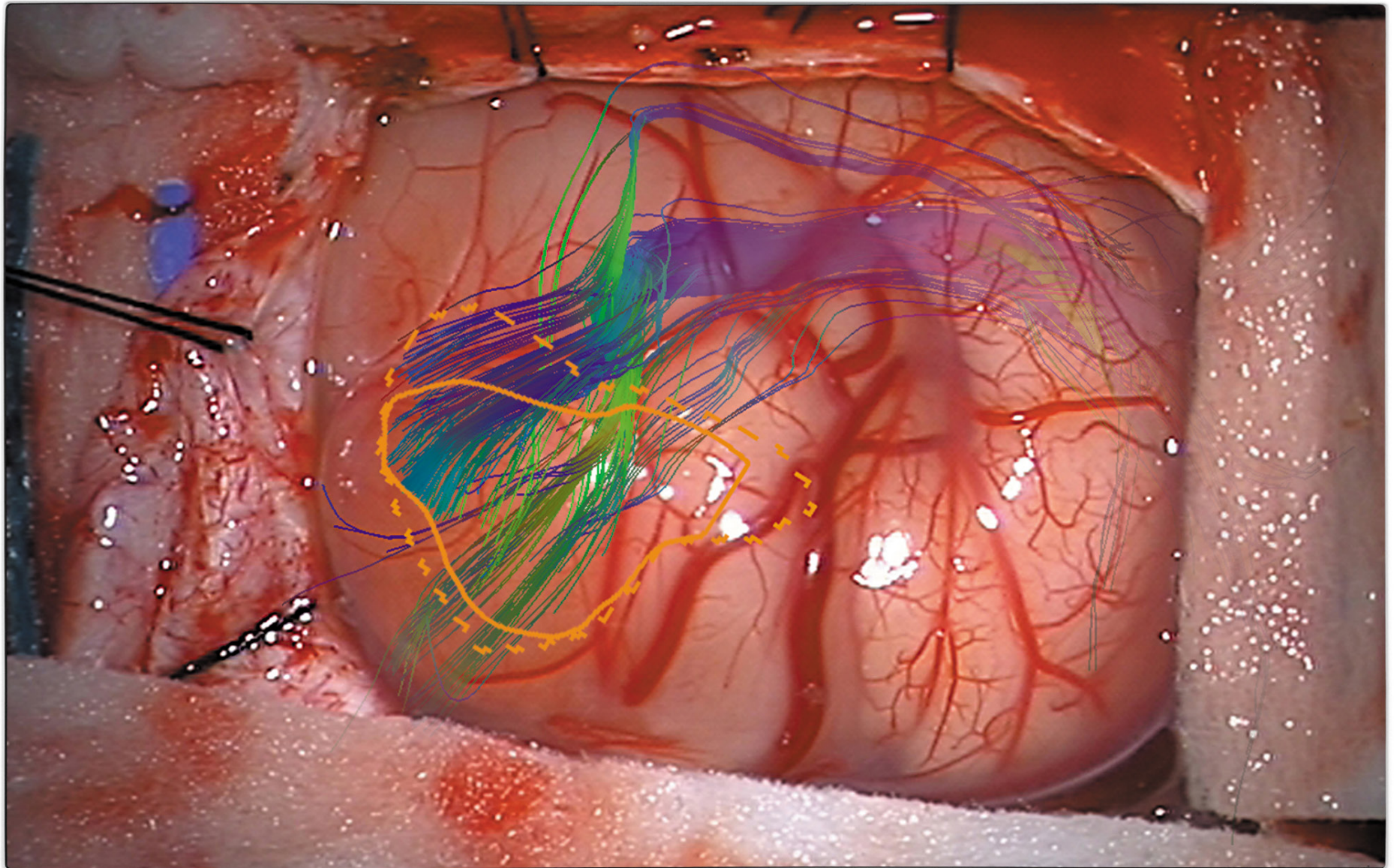
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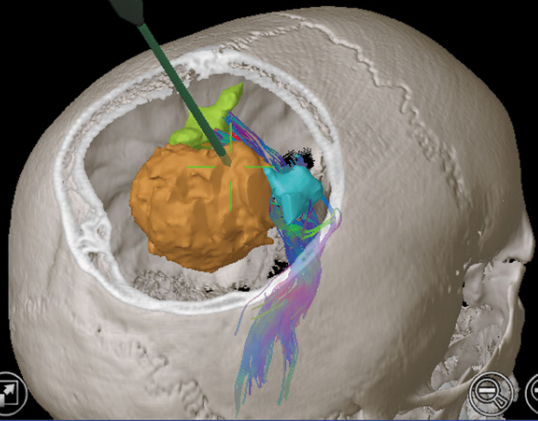




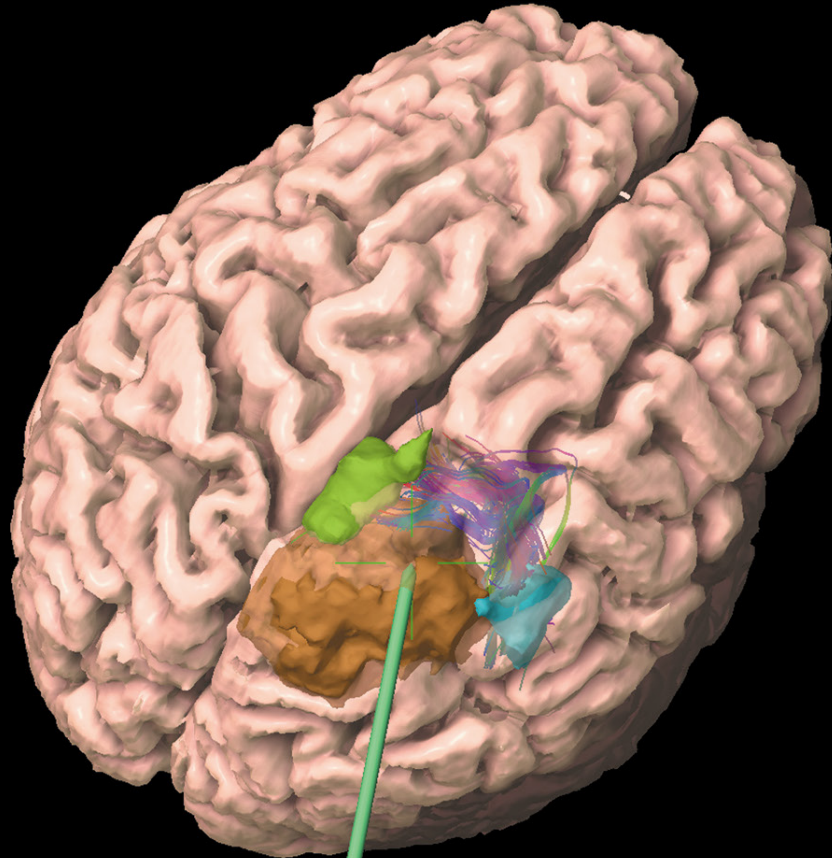
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Overview
#7 (CT)



Overview
#5 (MR)

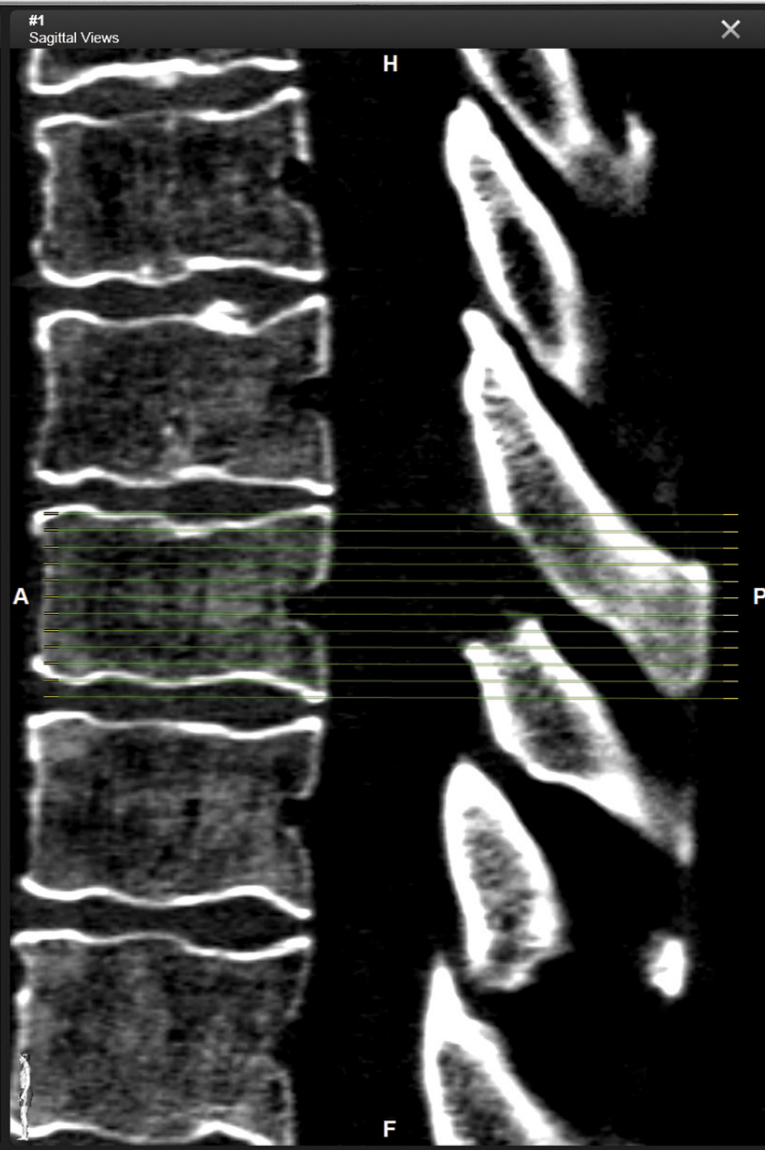
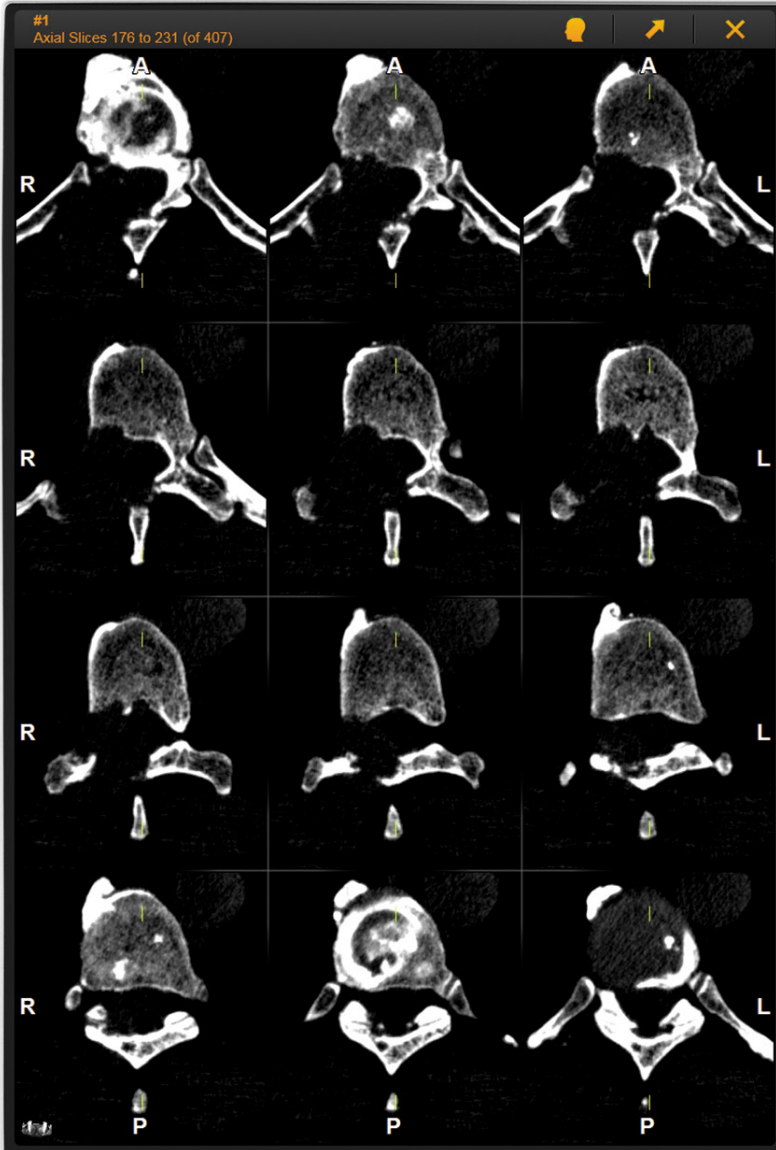


Overview
#5 (MR)



BRAINLAB





Interactive DICOM Viewer

001 - CT
001

Scroll Zoom Pan

Viewing

Measuring

3D Options

Image Fusion

Objects

Trajectories

Back Navigate

BRAINLAB





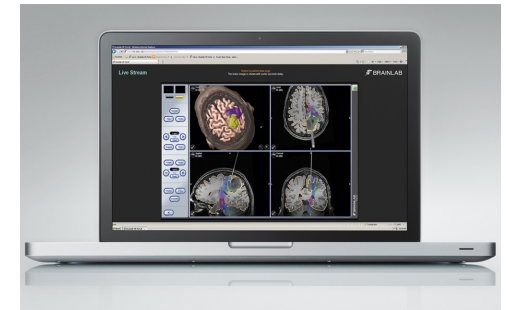
PLUG / PLAY ROCK / ROLL

Curve™ Image Guided Surgery is packed with small features that add up to big performance, making it the ultimate navigation experience. The centralized 'Start' screen – accessible at any time via the 'Home' button – makes launching software applications and displaying contents a breeze with drag-and-drop functionality.

- 1 Curve form flows from function, effortlessly docked together for easy moving and parking while fitting user needs perfectly with optimized usability and quick setup and tear down
- 2 Mobile, wireless* networking lets surgeons stream and record to linked workstations where colleagues can watch, in digital HD, via the hospital's 'Brainlab OR web portal'
- 3 Built-in high fidelity music dock allows surgeons to navigate to their own soundtrack
- 4 Eight separately moving and braking wheels maneuver easily around cables and over door jams, rapidly and efficiently navigating in and out of the operating room, the elevator and the storage room



1 PLUG



2 PLAY



3 ROCK

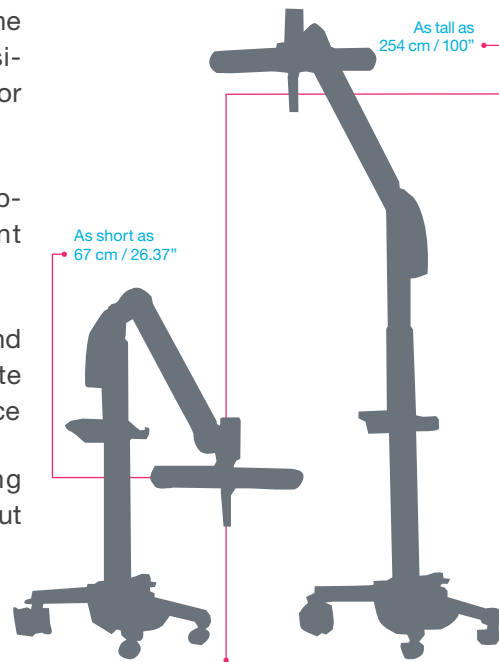


4 ROLL

UP/DOWN MOVE/ZOOM

Curve™ Image Guided Surgery adapts to virtually any surgical operating room setup for almost any navigated surgical intervention with a camera stand that can be independently raised to 100 inches in height. Convenient laser pointer located in the camera head offers optimal orientation and positioning.

- Unbelievable setup flexibility for supine patient positioning and camera positioning right above the surgical field for certain spine surgeries
- Extremely low camera position to support cranial cases with prone patient positioning
- Motorized adjustment, telescopic stand and wireless communication* liberate camera setup and redefine convenience
- 300 cm, extended camera tracking volume multiplies setup options without compromising patient registration



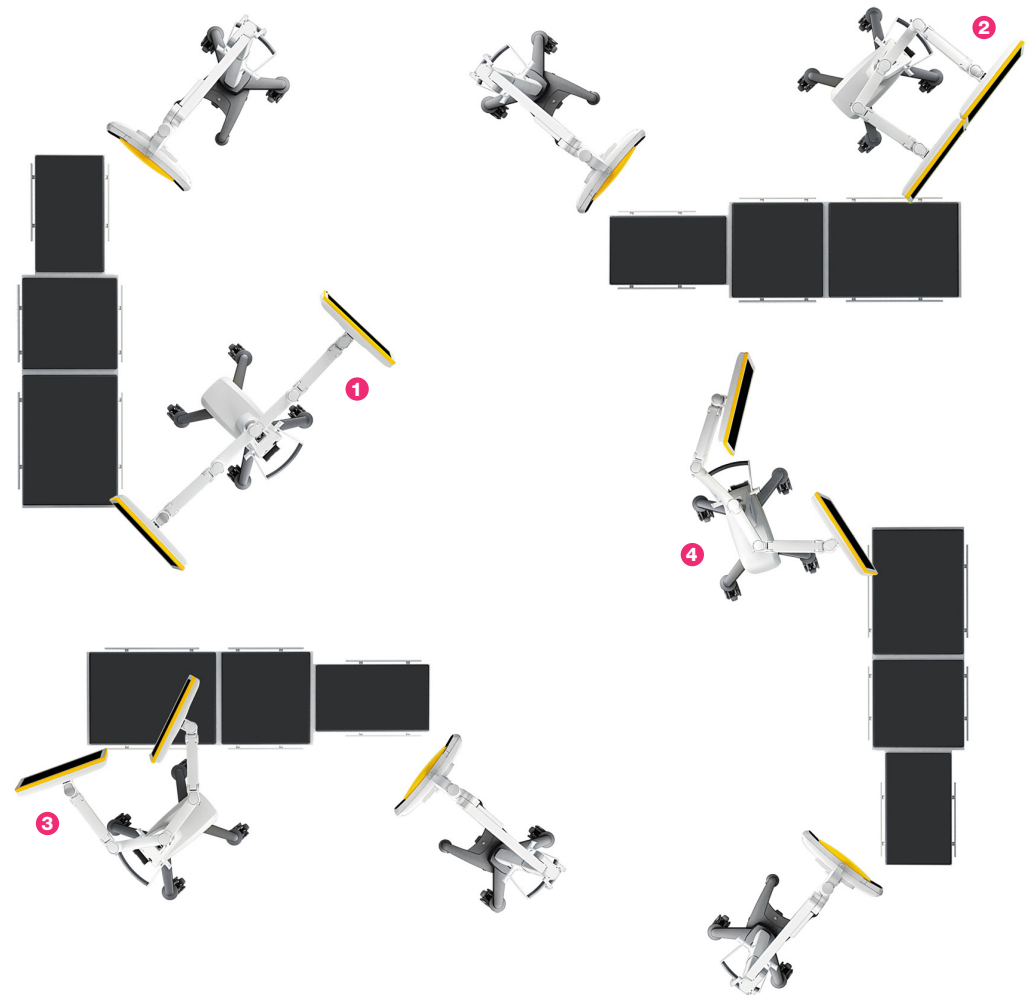
EXPAND / CONDENSE ZIG / ZAG

Surgeons and staff are free to move, expand, contract, contort and control their operating room setup with multiple varieties including sterile and non-sterile combinations.

Super smart ergonomics and docking mechanism, combined with an appealing design makes Curve™ transportation easy and storage the last thing on anyone's mind.

Curve is available with one or two screens depending upon need and resources.

- 1 Both surgeon and non-sterile staff operate Curve at the same time increasing efficiency and streamlining workflow
- 2 Surgeon controls both Curve monitors for navigating, streaming and recording while benefitting from space-saving footprint
- 3 Surgeon uses one Curve monitor as 'cockpit' for changing settings while the second monitor, placed over the patient, serves as a view-only image guidance monitor
- 4 Surgeon and sterile nurse each operate a Curve monitor for dual control and flexibility inside the sterile field



CONNECT/DISPLAY SHARE/STREAM

All-in-one smart hub based on user-centered design connects Curve™ to the outside world and rapidly integrates third party surgical devices. Curve is a total information gateway, allowing physicians to view, share and connect easily to tools both outside and in the operating room.

- Direct DICOM patient data transfer from/to 4x USB and CD/DVD±R
- Pure HDMI video signal with direct screen for surgical scopes
- Go to the cloud with VoyantLink™, stream to a remote workstation, session-share on Digital LightBox®
- Built-in WLAN* module allows for recording and streaming using the hospital-specific 'Brainlab OR web portal'
- iPlan® (Net)
- Intra-op C-arm data
- Digital video in
- Analog video in
- iCT scanner in
- Microscope Heads-Up-Display in
- Curve™ camera in



*FDA clearance pending.

brainlabcurve.com