

Navient

Cranial Navigation System

Simple, Accurate
and Affordable



Simple, Accurate and Affordable

Navient is an innovative image-guided navigation system, utilizing the latest technologies in the field and bringing simplicity, accuracy and affordability to the surgical navigation system.

Navient is designed for convenient routine use. There are no cables to connect, no spherical markers to mount, no field generator to place, and no consumables to order.



Key Features

- Sleek, compact and portable cart
- Large touch screen for natural interaction
- Powerful and intuitive software features
- Biopsy and Tumor resection solutions
- Pre-calibrated navigation probes
- Fast registration and precise navigation
- Affordable and no consumables

Fast Registration

Navient's registration is simple, accurate and fast. It detects multimodal fiducials for automatic registration as well as allows using anatomic landmarks for manual registration.

Navient's innovative trace-based registration technology further fine tunes registration and provides best in class accuracy. The process takes less than a minute to complete.

Proprietary Optical Tracker

Optical trackers are preferred over EM trackers for the following reasons:

- Reliable accuracy
- Wireless instruments
- No interference from metals
- Simpler and more user friendly

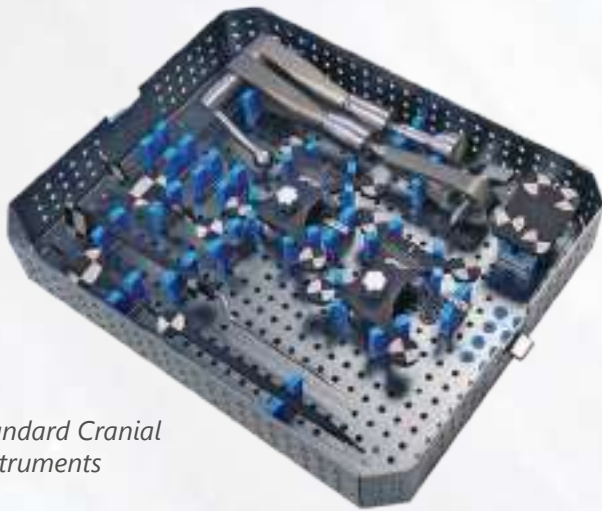
Navient's proprietary optical tracker is superior to traditional optical trackers for the following reasons:

- Permanent & steam sterilizable markers
- Live video feed for easy positioning of the tracker
- Magnified view for tool tip accuracy verification

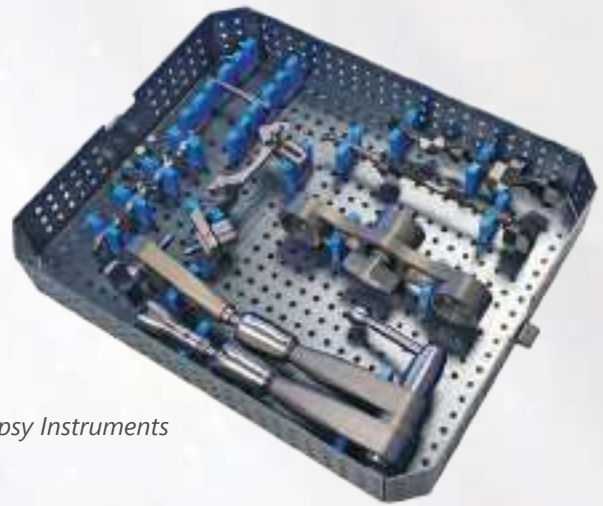
Reusable Instruments

Ergonomic Instruments

- Pre-calibrated neuro navigation probes equipped with permanent markers
- Universal adaptor easily clamps to any surgical instrument such as biopsy needle, drill or suction
- Calibrator instrument calibrates the tips of instruments in a few seconds
- Verify instrument tip accuracy in the zoom window
- Steam sterilizable navigation instruments
- No consumables



Standard Cranial Instruments



Biopsy Instruments



ENT Instruments

Standard Instruments

- Articulated arm
- Two cranial frames
- Cranial probe
- Registration probe
- Universal tracker
- Four Universal C-clamps
- Sterilization tray

Biopsy Instruments

- Articulated arm
- Dual adaptor
- Biopsy aiming device
- Biopsy probe
- Universal tracker
- Reducing tube
- Sterilization tray

ENT Instruments

- ENT probe
- Registration probe
- Maxillary seeker
- Frontal seeker
- Universal tracker
- Patient tracker
- Sterilization tray

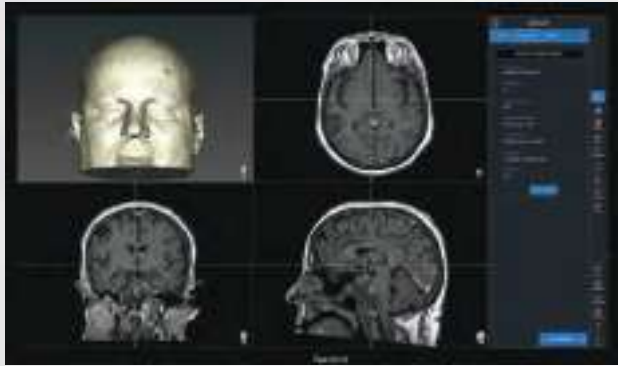
Sleek, Compact and Portable



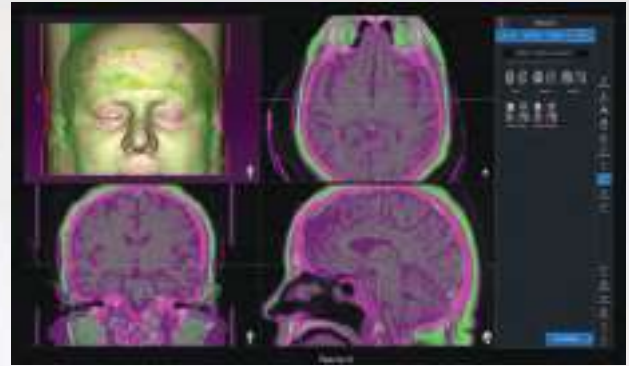
Simple, Elegant and Precise



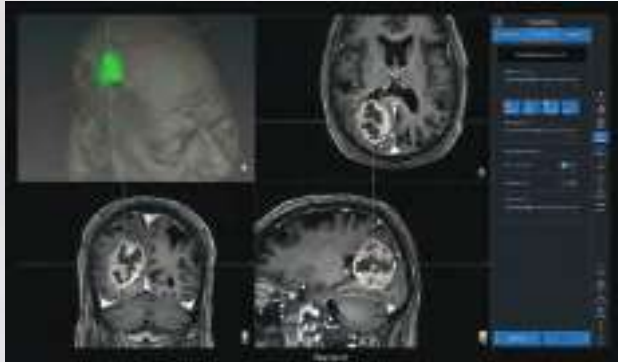
Streamlined User Interface



1. Images: Load CT or MRI images from USB, DVD or PACS



2. Image Fusion: Merge CT and MRI images (Optional)



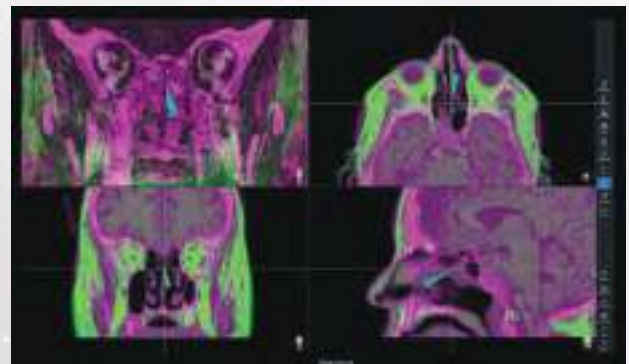
3. Planning: Plan tumor and verify biopsy trajectory



4. Set up: Position the tracker, calibrate new instruments and check their tip accuracy



5. Registration: Landmark based and trace based



6. Navigation: Navigate in 3D & 2D views, biopsy trajectory, tip extension, and 3D probe eye view.

General Specifications



Tracking system

- Infrared optical tracking system
- Live video stream
- 0.2mm calibration accuracy
- Permanent markers
- Reusable and sterilizable instruments

Computer & Monitor

- 27" Full HD touchscreen monitor
- Intel® Core™ i7 quad core processor
- 16GB 3200MHz DDR4 RAM
- 1TB NVMe PCIe M.2 SSD Drive

Software

- Import Dicom images from DVD, USB and PACS
- Fast and accurate image fusion
- Automatic detection of fiducials for registration
- Anatomical landmark registration
- Trace registration
- Biopsy trajectory planning and navigation
- Virtual tip extension
- Axial, coronal, sagittal, and 3D probe's eye view
- Easy manipulation of 2D and 3D images
- Video documentation of surgical operation
- Warnings issued if line of sight interrupted
- Gesture based user interface control
- Smart Zoom magnifies navigation area
- Instrument tip accuracy verification
- Remote support and software update

Cart

- Variable Height: 135cm – 190cm
- Small footprint: 40cm x 50cm
- Light weight: 30kg
- Monitor mount with tilt, pan and rotation
- Foldable tracker arm with variable height
- Omni directional wheels with brakes
- 100V – 240V, 50-60Hz, 2.2A

Support Program

Installation & Training Program

On-site installation and training is included in your purchase of Navient navigation system. You will be trained until you feel comfortable operating the Navient system

Warranty

2 years warranty is included in your purchase of a Navient system. Extended warranty is available for the system lifetime.

On-line Support

Navient comes with a remote online assistance program. Our technical support staff can log into your Navient system to perform diagnostic and troubleshooting operations.

Software Update

Your Navient software will be automatically updated via our online support program.

Hardware Repair

Our technical support will help you with both on-site and off-site repair.

Preventive Maintenance

Regular on-site and off-site maintenance operations are performed to monitor the performance of your Navient system.

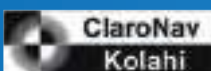
About ClaroNav Kolahi Inc. (CKI)

CKI is a medical device hardware and software company headquartered in Toronto, Canada, and is represented worldwide by authorized distributors.

CKI is deeply committed to product quality and safety, and certified as compliant with ISO 13485, ISO 14971 MDSAP. CKI is dedicated to innovation and developing state-of-the-art cranial surgical navigation systems to enable surgeons to confidently make more informed decisions for better patient outcomes. For more information, visit www.claronav.com.



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