

# NAVIENT

Surgical Navigation System



**Smart Solution for Enhanced Productivity**

# 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

- Spine, Cranial, Biopsy and ENT procedures
- Sleek, compact and portable cart
- Large touch screen for natural interaction
- Powerful and intuitive software features
- 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.

## Ergonomic Instruments

- Pre-calibrated navigation probes equipped with permanent markers
- Universal trackers easily clamps to any surgical instruments such as biopsy needle, pedicle screw driver, drill or suction
- Steam sterilizable navigation instruments
- No consumables

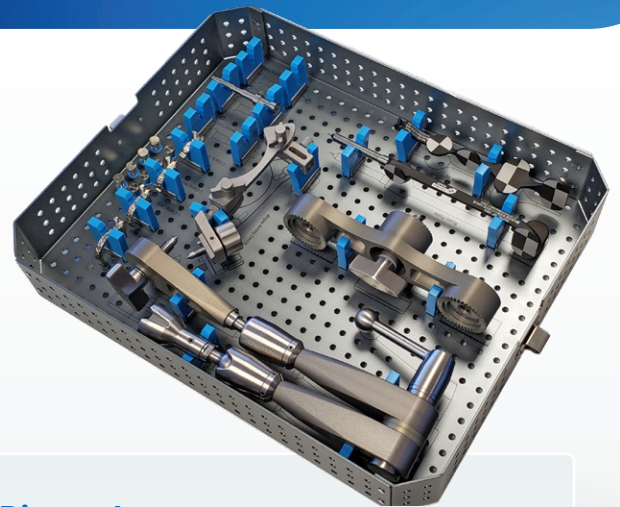


# Reusable Instruments



## Cranial Instruments

- Articulated arm
- Two cranial frames
- Cranial probe
- Registration probe
- Tip Calibrator
- Sterilization tray



## Biopsy Instruments

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



## Spine Instruments

- Spine Reference clamps (Open and percutaneous)
- Universal Trackers for pedicle screw driver, tap
- Patient Reference Frame
- Automatic Registration Fiducial
- Navigated Awl
- Registration Probe
- Tip Calibrator



## ENT Instruments

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

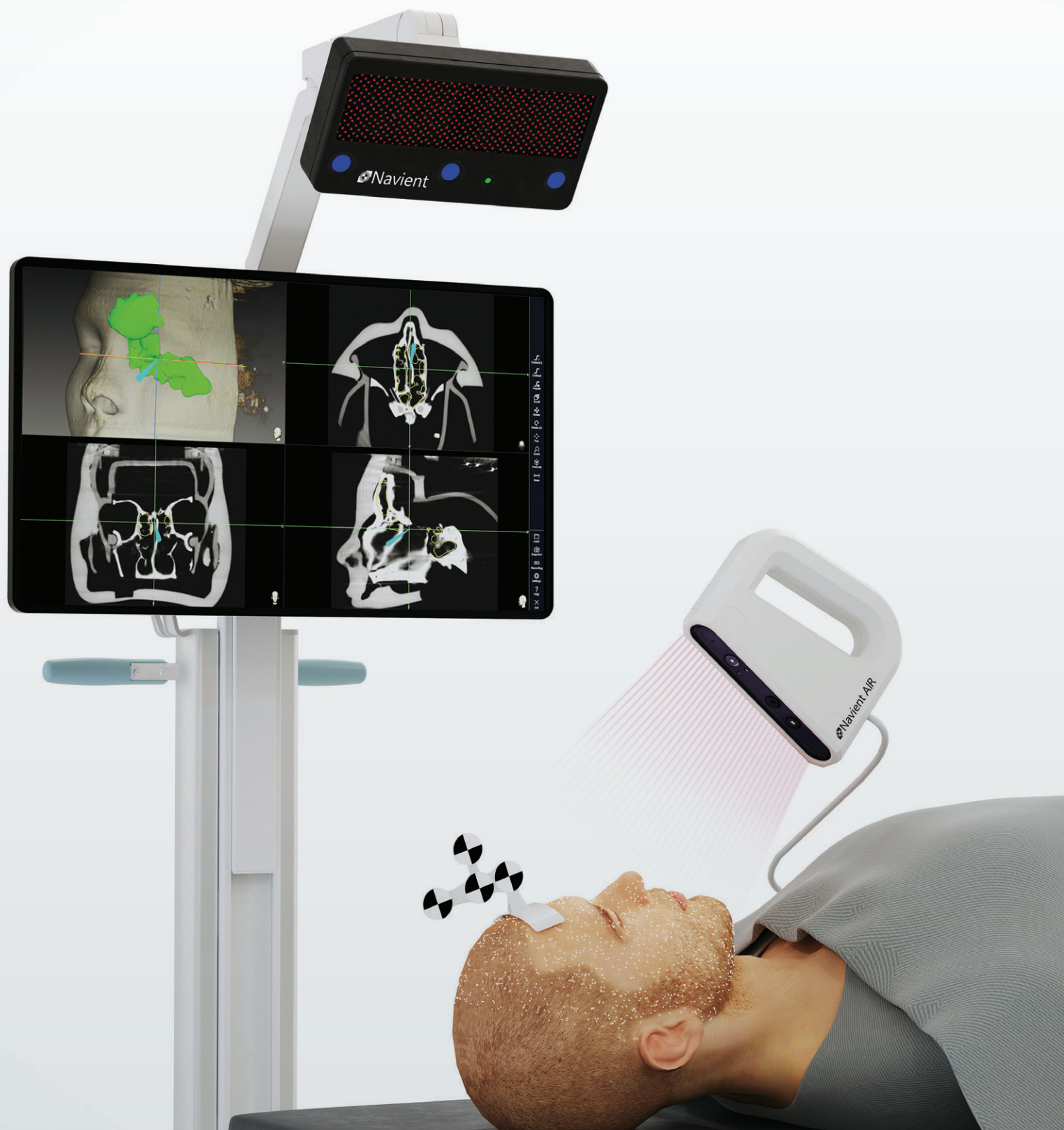


# Sleek, Compact and Portable

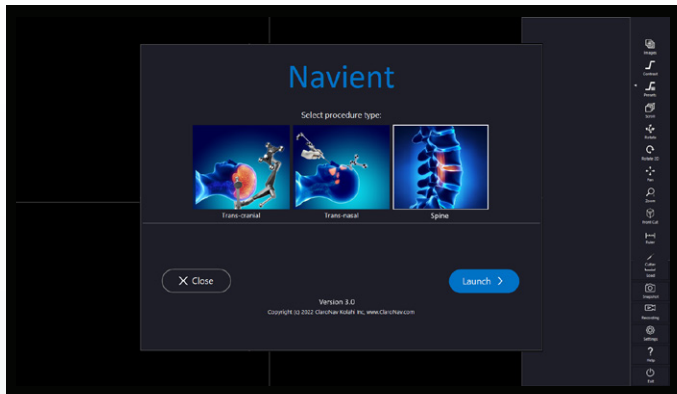




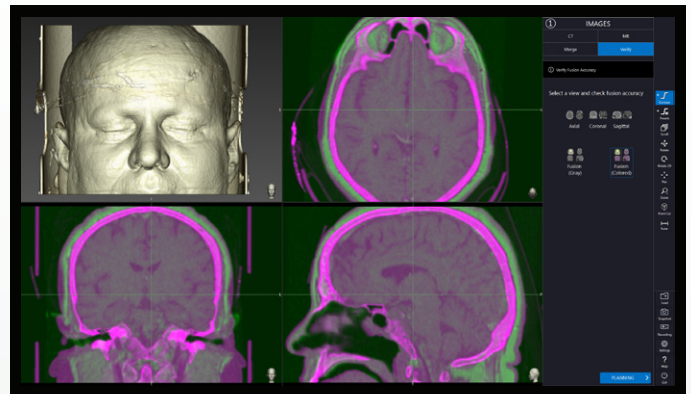
Simple, Elegant and Precise



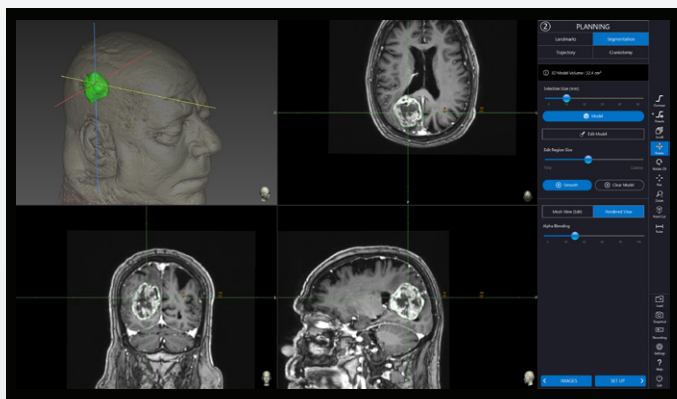
# Streamlined User Interface



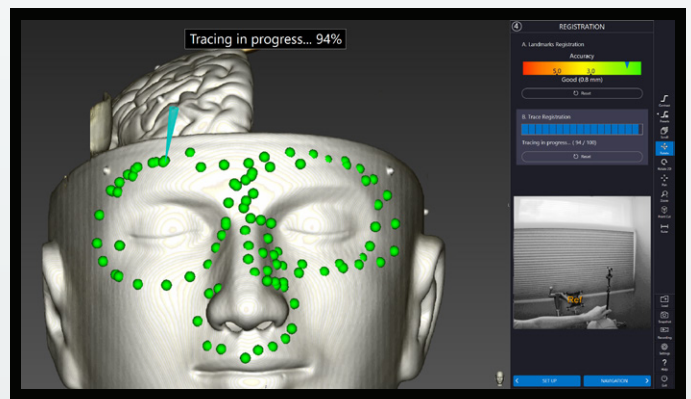
**Procedures:** Supports ENT, Cranial and Spine procedures



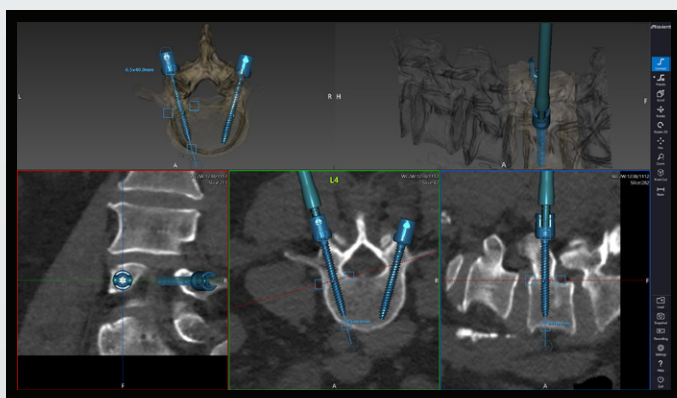
**Images:** Load images from CD/DVD/USB or PACS, Image fusion



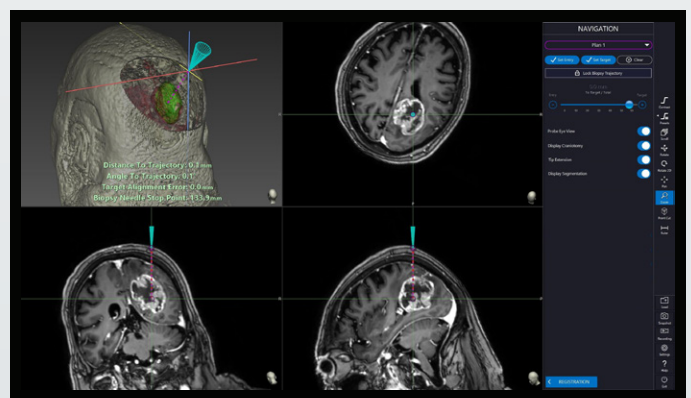
**Planning:** 3D Modeling, Biopsy trajectory planning, Virtual craniotomy



**Registration:** Landmarks and Trace based registration



**Navigation:** Optimized Navigation layout for Spine procedure



**Navigation:** Optimized Navigation layout for Cranial procedure

# General Specifications



## Tracking System

- Infrared optical tracking system
- 0.2mm calibration accuracy
- Live video stream
- Instrument tip accuracy verification
- Permanent markers
- Reusable and sterilizable instruments
- Foldable tracker arm with variable height

## All-in-One Computer

- 27" WQHD ultra bright touchscreen monitor
- Ultra-thin Bezel, glass front and stainless steel back
- Light weight, thin and easily detachable
- Adjustable mount Tilt/Swivel/Rotation
- Intel® Core™ i7 quad core processor
- 32GB 3200MHz DDR4 RAM
- 1TB NVMe PCIe M.2 SSD Drive
- Nvidia GeForce RTX 3070 graphics

## Software

- For Cranial, Spine and ENT procedures
- Loads DICOM images from DVD, USB, PACS
- Image fusion
- Automatic segmentation and 3D modeling
- Virtual craniotomy
- Biopsy trajectory planning and navigation
- Pre-op and Intra-op pedicle screw planning
- Landmark and Trace registration
- Automatic registration using intra-op CT and C-arm
- Anatomical, trajectory and probe eye views
- Video documentation of surgical operation

## Cart

- Light weight: 30kg
- Small footprint: 40cm x 50cm
- Variable Height: 135cm – 190cm
- 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 its Quality Management System is certified as compliant with ISO 13485 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](http://www.claronav.com).



Leader in Surgical Navigation



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