NAVIENT

Surgical Navigation System

ClaroNav Kolahi

Leader in Surgical Navigation



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.



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 and Accurate Registration

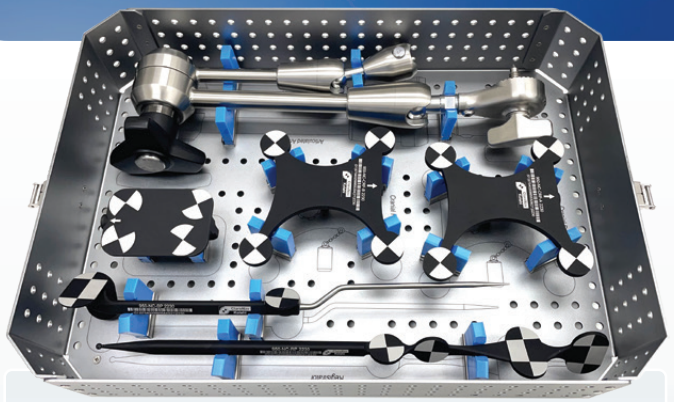
Navient is equipped with several innovative registration technologies such as:

- Automatic Fiducial registration with intra-op CT or C-arm
- Automatic registration with pre-calibrated 3D C-arm
- Automatic registration with pre-calibrated 2D C-arm
- Automatic registration with 3D point cloud face scanner
- Trace-based surface registration

Ergonomic Instruments

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

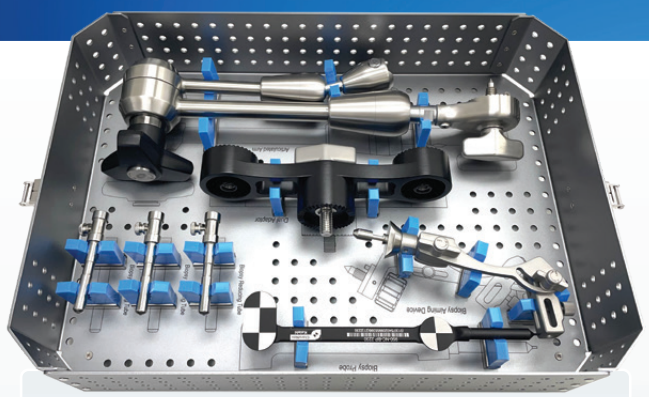
Reusable Instruments



Cranial Instruments

- Articulated arm
- Two Cranial Reference Frames
- Straight probe
- Registration probe
- Tip Calibrator
- Microscope probe
- Sterilization tray

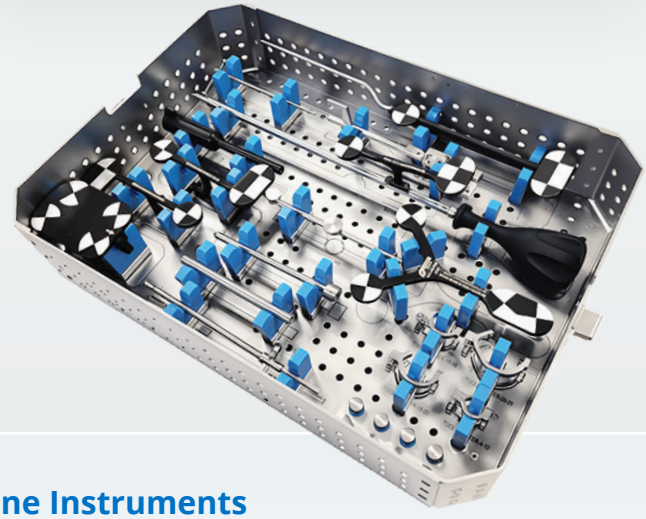




Biopsy Instruments

- Articulated arm
- Dual adaptor
- Biopsy aiming device
- Biopsy probe
- Reducing tube 2.2mm
- Sterilization tray





Spine Instruments

- Open Spinous clamp
- Percutaneous surgery unit
- Clamp tool handle
- Universal Trackers
- Patient Reference Frame
- Mini Articulated Arm
- Navigated Awl
- Registration Probe
- Tip Calibrator
- C-clamps
- Sterilization tray





ENT Instruments

- Bayonet probe
- Registration probe
- Maxillary seeker
- Frontal seeker
- Universal tracker
- Patient tracker
- Tip calibrator
- C-Clamps
- Sterilization tray



Sleek, Compact and Portable

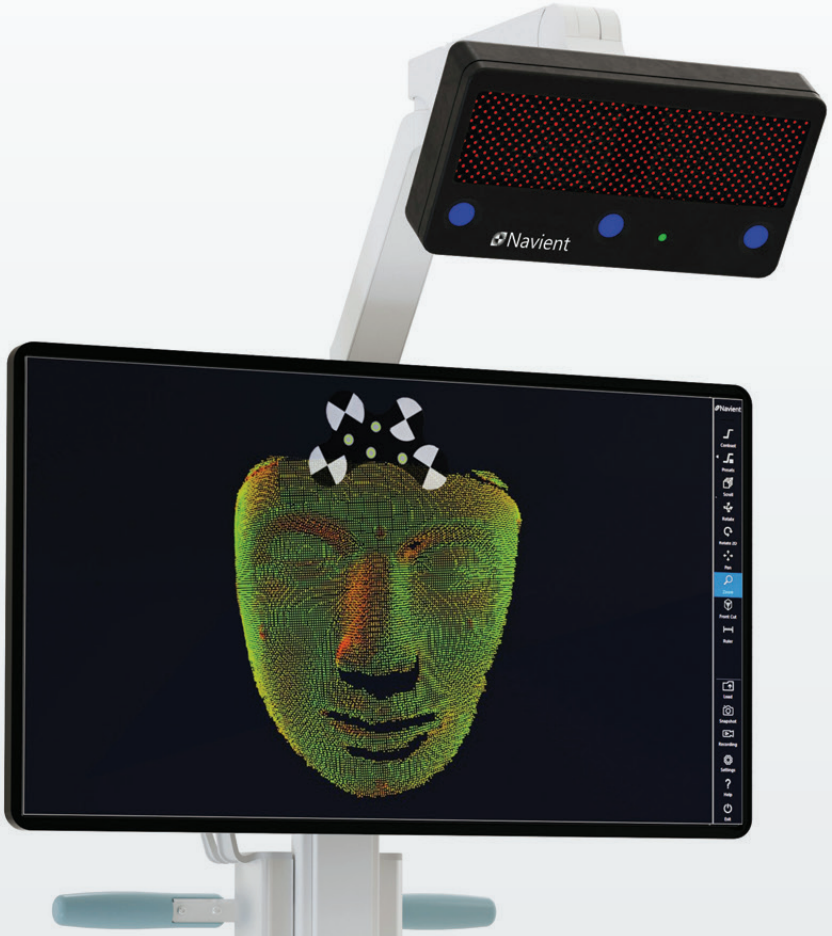


Fast and Accurate Automatic Registration

Navient Air is an innovative technology for fast and accurate patient registration. It utilizes a high-precision 3D scanner and digitizes the patient's face, enabling touchless and user-independent registration.

Navient Air Specs

- Working Distance: 250 – 750mm
- Optimal working distance: 400mm
- Scan Speed: 14fps
- Dimensions: 220x46x55mm
- Weight: 500g

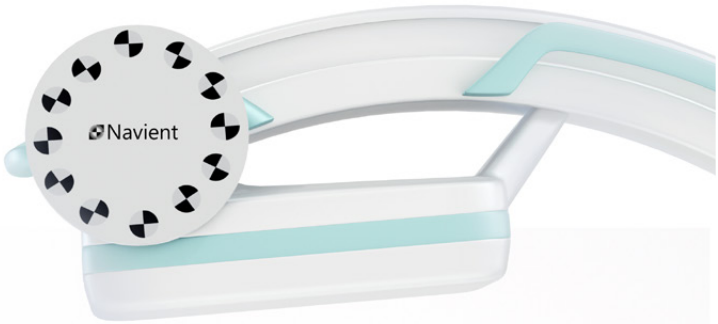






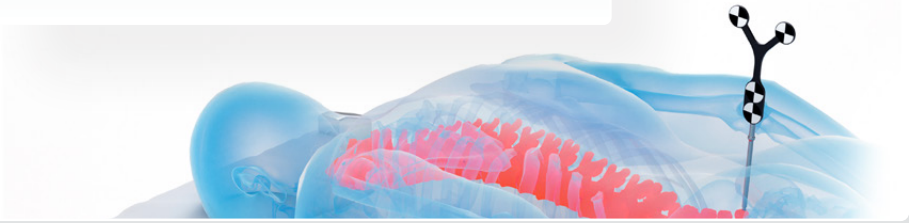
C-arm Integrations





3D C-arm Integrations

Pre-calibrate any intra-op CT and 3D C-arm, such as Ziehm RFD 3D, Siemens Cios Spin, GE OEC, Neurologica BodyTom or O-arms. Perform automatic registration and instantly navigate open and percutaneous surgeries.







2D C-arm Integrations

Pre-calibrate any 2D C-arm, such as Philips, Ziehm, GE, Shimadzu, and Siemens, and perform automatic registration. Reduce radiation by navigating open and percutaneous surgeries on the 2D fluoro images.



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
- Lightweight, thin, and easily detachable
- Adjustable mount Tilt/Swivel/Rotation
- AMD Ryzen 9 octa-core processor
- 32GB 5600MHz DDR5 RAM
- 1TB NVMe PCIe 4.0 SSD Drive
- AMD Radeon™ 780M 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: 40 (W) x 50 (D) x 135 (H) cm (when extended: 190 (H) cm)
- Omni directiv onal wheels with brakes
- 100V – 240V, 50-60Hz, 2.2A

Support Program

Installation & Training Program

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

Warranty

A 2-year warranty is included in your purchase of a Navient system. An extended warranty is available for the system's lifetime.

Online 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.

ISO 13485:2016 CERTIFICATION ™
intertek

ClaroNav Kolahi
Leader in Surgical Navigation

ClaroNav Kolahi Inc. (CKI)
1140 Sheppard Avenue West, Unit 10
Toronto, Ontario, Canada, M3K 2A2
Tel: +1 (647) 951-1525
Email: **info@claronav.com**
Web: **www.claronav.com**

EC REP
CE 2862
Emergo Europe
Westervoortsedijk 60
6827 AT Arnhem
The Netherlands

Designed and manufactured in Canada

Not all configurations and accessories are approved for marketing in all jurisdictions.
Please contact ClaroNav Kolahi Inc. for region-specific details
This device is intended to be used by medical practitioners.

990-NC-BROCH Rev D
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