

NAVIOL, ENT Surgery Navigation

# ENT Surgery Navigation

NAVIOL, ENT Surgery Navigation ver. 1



# The First Domestic ENT Navigation, NAVIOL

## ENT Navigation System

### Standard Accessories

- EM Navigation unit
  - NDI Aurora field generator with mounting system 1Set
- EM Patient tracker 1Set
- EM Pointer 1Set
- Medical Full-HD monitor 27" 1Set
- Head rest 1set
- Navigation cart 1set



### Features

- First Domestic ENT Surgery Navigation System
- Patented
- Easy to Combine the Head Rest with General Surgical Bed
- Expandable with Endoscopic or Universal Trackers
- Ready-to-go without additional instrument registration
- Flexible and Bendable EM Pointer
- User-friendly Software

### S/W Features

- Separated Operation Planning and Navigation System
- Provide a Diverse Operation Planning System for a Safe Operation
- Multiple Screen Layout Options Available
- User-friendly Registration Types: Landmark or Surface
- Adjustable Brightness and Contrast of Patient Ct Image Data
- Real-time Screen Capture (PNG) and Recording (MP4)
- Able to Modify Operation Planning during the Navigation System Operation
- Full-HD Screen

### Accessories



EM Pointer

Responds to the alternating magnetic field generated by the EM generator, which will generate an inductive current at the coil sensor inside the pointer tip and passes the location information to the ENT Unit.



EM Field Generator

Receives the signal from the Navigation Unit and generates an alternating magnetic field through the coils embedded, then activates the EM pointer and EM tracker.



EM Patient Tracker

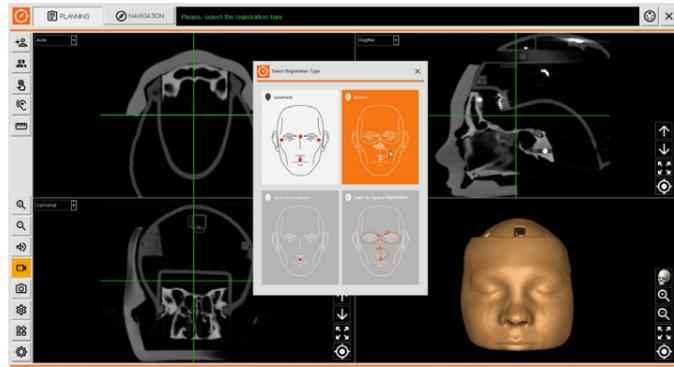
Detects the alternating magnetic field generated by EM generator by the inner coil sensor and send out the location information to the Navigation Unit.



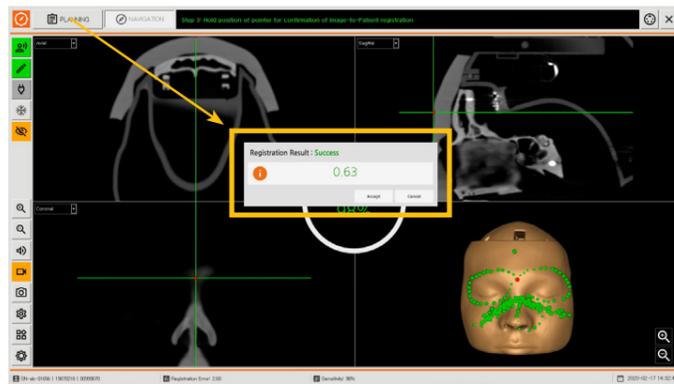
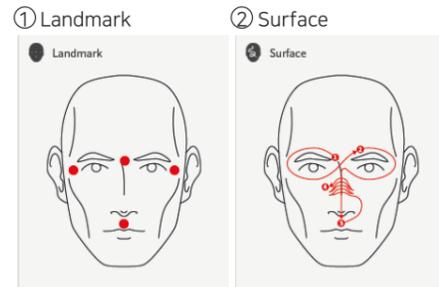
Head rest

Supports the patient's head and where the EM generator is equipped. It can be tilted to the desired angle and compatible with the general surgical bed.

## Navigation System



### 01 Select the Registration Type



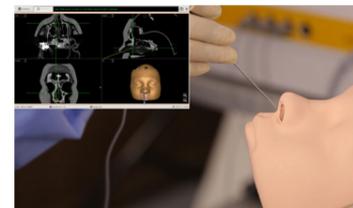
### 02 Registration Completion

Register the patient data with selected type. Once completed the error range will be indicated and the surgeon can make a decision for the operation.

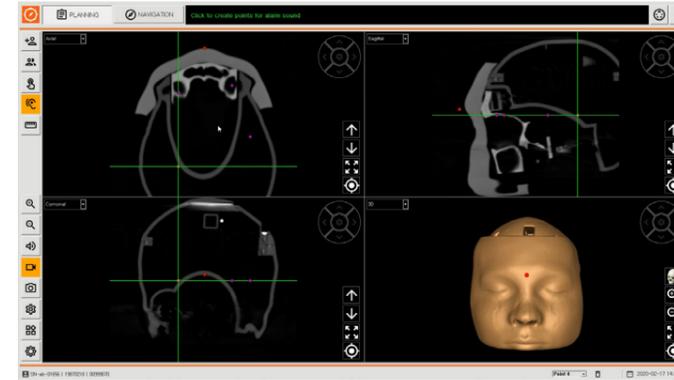


### 03 Navigation Utilization

The Navigation System can be used once the registration is completed.

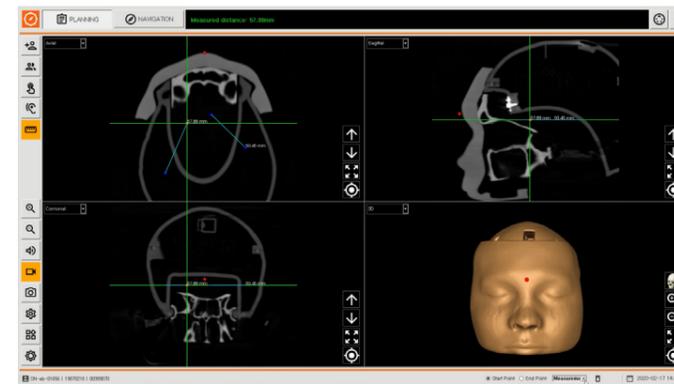


## Planning System



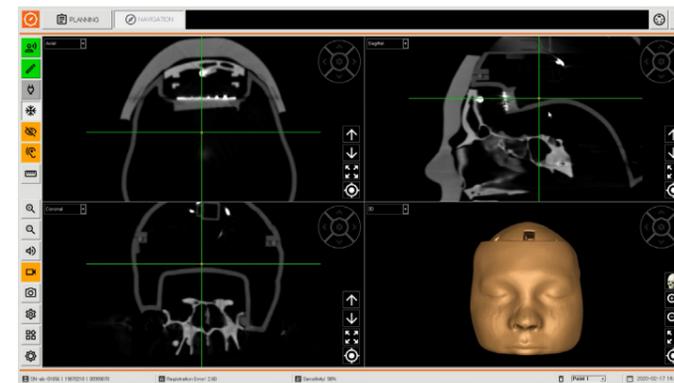
### 01 Setting Alarms in Critical Area

Prior to the operation, several alarm points can be set at the critical area. If the pointer got close to the chosen area, the alarm will sound.



### 02 Measuring Distance

By using the patient's CT image, the distance of each part can be measured precisely prior to the operation.



### 03 Freezing during the Operation

By freezing, the Navigation System can be paused and the operation planning can be modified.



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