

CNS ENT SURGICAL NAVIGATION SYSTEM



The golden standard in ENT Surgical Navigation

Since 2002, Collin has been manufacturing and marketing ENT surgical navigation systems using electromagnetic technology.

The experience we have gained over the past 18 years has made us the reference in the field of ENT Electromagnetic Navigation. Collin is now the market leader in many countries.

A focused ENT Surgical Navigation System
for all ENT surgery needs

- Endonasal surgery
- Skull base surgery
- Otoneurosurgery
- New born and pediatric surgeries

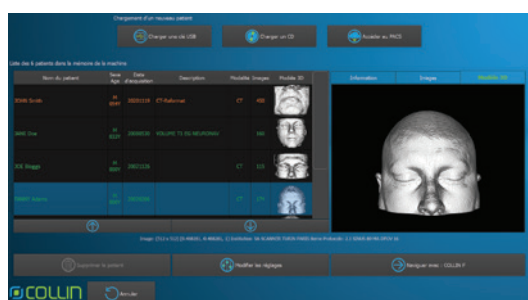




Smart, Simple & Fast

Intuitive loading of patient images

The images (CT, Cone Beam Scans, MRI, Positron Emission Tomography) are presented directly in 3D representation of the series proposed for loading. In one glance the surgeon validates that the selected series corresponds to his expectations. The images can be loaded from CD, DVD, USB or Pacs.



All the ENT approaches are possible

Patient referencing allows a high-level of navigational precision throughout the surgery without immobilizing the patient's head. The patient referencing ancillaries used by Collin Navigation Solutions® 4040 are non-invasive, atraumatic and can be easily sterilized. They offer the additional advantage of remarkable stability and perfect integration into the operating theatre environment.

Headset (Frontal Reference) **Frontal Capsule** **Buccostat** (Oral Reference) **Quick Fix** (Bone Reference) **Octopus** (Pediatric Reference)



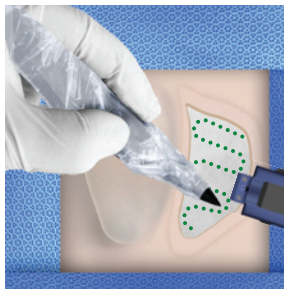
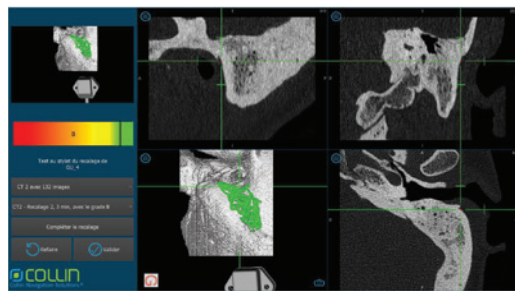
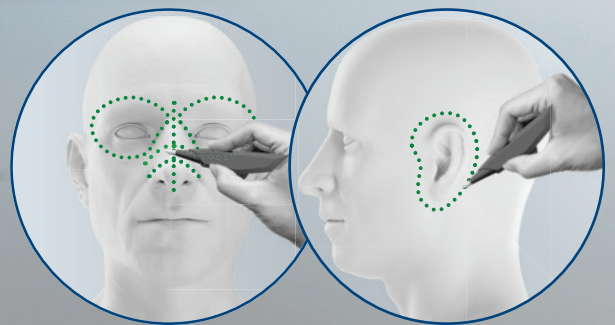
Endonasal surgery (FESS)	✓	✓	✓	✓	✓
Mixed endonasal surgery	✓	✓	✓	✓	✓
Transfacial approach	✓	✓	✓	✓	✓
Bicorona Unterberger approach	✓	✓	✓	✓	✓
Transzygomatic approach	x	x	✓	✓	✓
Lateral skull-base surgery	x	x	x	✓	✓
Oto-neurosurgery	x	x	✓	✓	✓

✓ - Optimal / ✓ - Possible / x - Not Possible

Navigate all

Simple, accurate and fast surface registration

A proven method for perfect precision by automatically matching the patient's anatomy to the 3D model rendered from the scans.



Otology Mode Sterile Registration

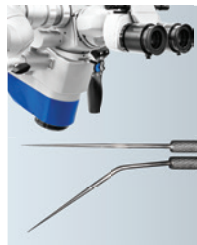
Special protocol for sterile registration dedicated for otosurgery. Surface matching by collecting points directly on the temporal bone.

Reusable instruments and Instrument Integration

x2

Sinus suction tubes

A standard double set of sterilizable suction tubes is provided to allow for two consecutive surgeries.



Otology instruments

With LSBS option a straight and angled pick are dedicated for Otology and Later Skull Base Surgery.



3rd party instrument

It is possible to navigate any rigid instruments, such as microsforceps, endoscopes, etc.



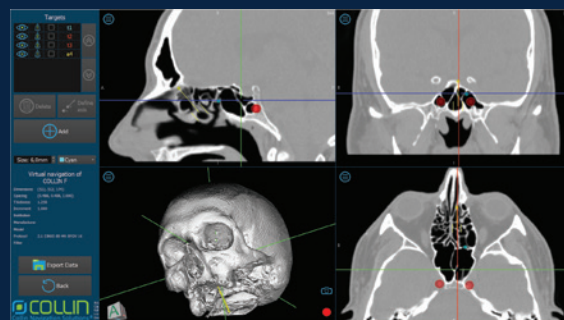
Shaver Integration

Optional adapters allow for shaver navigation. Available for Bien-Air Surgery, Karl Storz, Medtronic M4/M5 and Stryker.

Surgery Planning

The CNS advanced software allows for preoperative surgical preplanning to enhance intraoperative navigation workflow

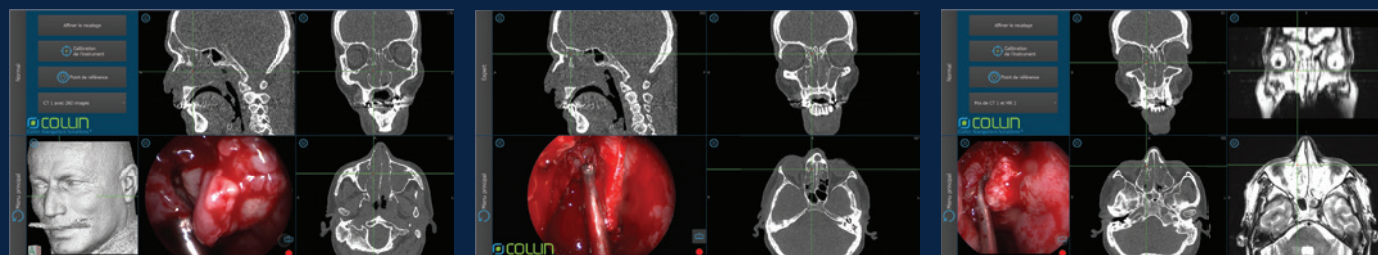
- Points to be reached
- Points to be avoided
- Guidance from one point to another



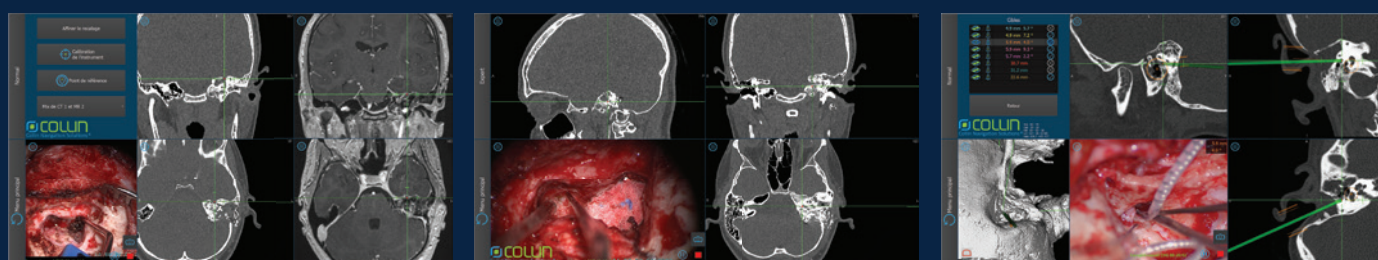
A special software package is provided free of charge and can be installed on your PC that would allow for preoperative surgical planning as well as the possibility to check the validity of the patient's images in position in advance and possibly to avoid re-radiation.

Multimodal Navigation:

For tumor and Skull Base Surgery



Otology and Lateral Skull Base surgery:



Ordering Information:

REFERENCE	DESCRIPTION
	Main Unit:
CNS4040	Collin Navigation Solutions 4040 Unit
	Standard Reference ancillaries
CNBANDEAU	Head Set
CNCAPS	Capsule front
CNAUTCAPS	Double-sided sticker for Capsule front / 100
PGBANDSCRATCH	Additional Head Band for Head Set
CNREFBUC	Mouth reference system
CNSPAM	CNS Handpiece for surgery
	Optional Reference ancillaries
PGBUCC2	Mouth reference system 2 and screwdriver
PGCALOTTE	OCTOPUS ancillary for new born

REFERENCE	DESCRIPTION
	Standard Instrument Set
HX1605	2x US connector
HV3703	2x Canula for aspi. double curved - Diameter: 3mm
HV3704	2x Canula for aspi. double curved - Diameter: 4mm
HV3603	2x Canula for aspi. curved - Diam. 3mm
HV3604	2x Canula for aspi. curved - Diam. 4mm
HV3503	2x Canula straight for aspiration - Diam. 3mm
HV3504	2x Canula straight for aspiration - Diam. 4mm
PGPOINTER	1x Stylus tip otology
CNS4040-O	Option Otology and Lateral Skull Base Surgery
CNSPAM	1x CNS Handpiece for surgery
CNPOINTEDROITE	1x Straight Pick for Otoneurosurgery
CNPOINTECOURBE	1x Angled Pick for Otoneurosurgery
PGPOINTER	1x Stylus tip otology
CNANCORAGE	1x Qfix bone reference

Running Cost

The Collin Navigation Solutions® system requires no consumables during surgery.

Its systematic use is suitable in all surgical procedures and will be light to your budget.

Collin Navigation Solutions®

ENT SURGICAL NAVIGATION SYSTEM

The only navigator
designed by ENT for ENT



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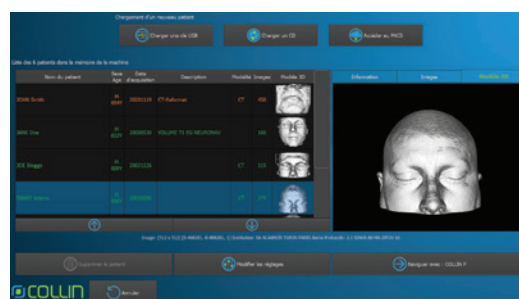
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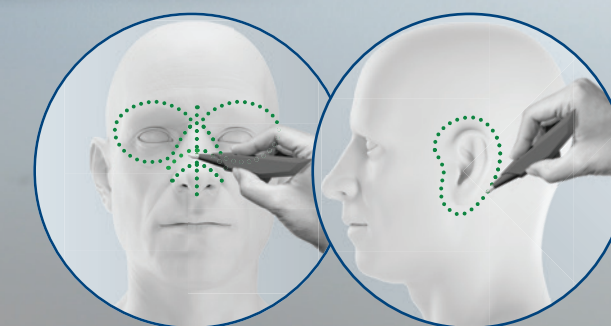
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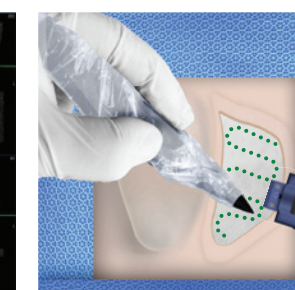
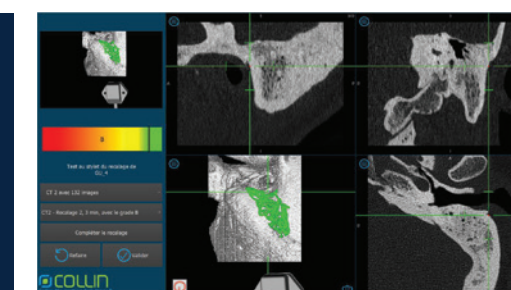


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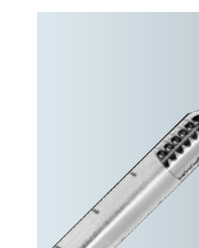
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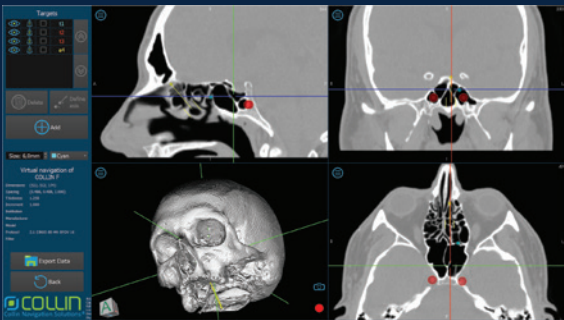
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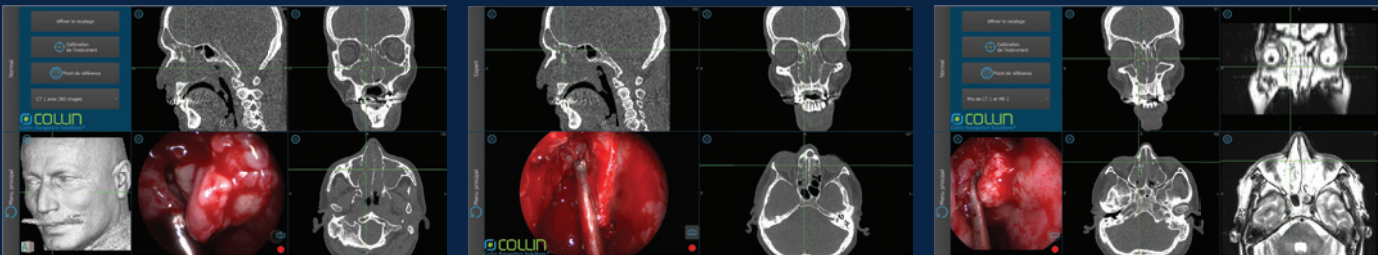
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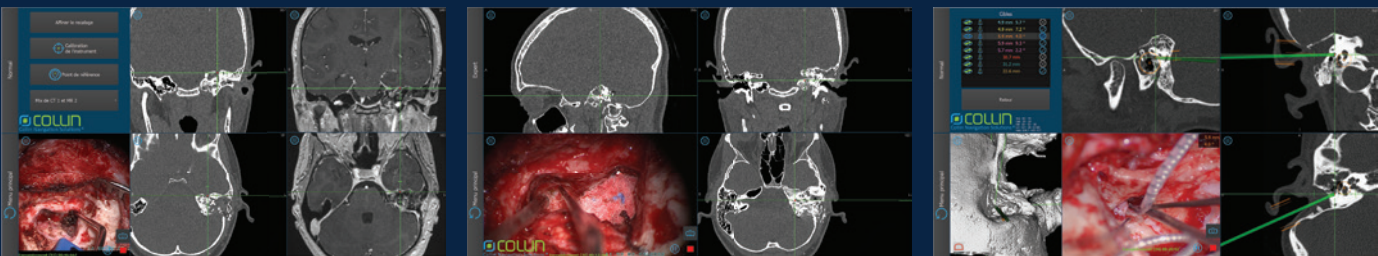
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