



CRANIAL NAVIGATION

SIMPLE AND INTUITIVE

REVOLUTIONARY NAVIGATION TECHNOLOGY – FOR ROUTINE AND COMPLEX PROCEDURES IN CRANIAL SURGERY

We at Fiagon believe „patient care“ should be centered around the patient. For us, patient-centered-care means less traumatic procedures for faster recovery time. It means more efficient interventions for reduced surgical time. It means understanding that the difference between a life fulfilled and a life lost can be less than 1 millimeter. Patient-centered-care is why we drive innovation forward.

In our patient-focused approach Fiagon has risen the bar of IGS navigation. We offer support for endoscopic and minimally invasive surgery with a < .5 mm wire. We have developed a compact and dynamic platform that optimizes integration and surgical efficiency. To maximize precision, we engineered microsensors into the tip of our instruments.

We have meticulously engineered each innovation to support you in your mission to enhance patient-centered-care.

ALL BENEFITS AT A GLANCE:

- » Full integration into your microscope
- » Fast and flexible setup of the navigation system for neurosurgery
- » Intuitive and easy-to-use user interface
- » PACS integration
- » Unique error detection and compensation in the magnetic field
- » 100% EM technology - no „line-of-sight“ problem



FIAGON CRANIAL NAVIGATION

Fiagon navigation supports you in every cranial procedures.

The adaptive platform can be individually configured with software and hardware and you have the freedom to support all familiar patient positioning options with navigation. Thanks to Fiagon's unique technology, your microscope and the navigation work together seamlessly.

ZERO FOOTPRINT - INTEGRATION

To reduce our footprint Fiagon developed a system that can be easily integrated into any existing O.R. infrastructure.

- » Workflow maximized
- » Fully integratable
- » Compact navigation system

* Microscopes with image injection interface are compatible





PATIENT POSITIONING

- » *Supine*
- » *Prone*
- » *Sitting*

CRANIAL NAVIGATION OPTIONS

Craniotomy

- » Target and entry planning
- » Trajectory monitoring and guidance

Tumor resection

- » Navigated instruments for precise orientation during complex cranial surgeries
- » Intraoperatively measure the tumor and instrument position, increase the probability of a total resection

Frameless biopsy

- » Navigated biopsy without stereotactic frame
- » Biopsy needle navigated at the tip

Shunt placement

- » Place ventricular catheters using navigation
- » Trajectory planning

Procedures at the skullbase

- » Defects at the skullbase
- » Bone-infiltrating tumors
- » Pituitary surgery with transphenoidal access

APPLICATIONS & SOFTWARE EXPANSION OPTIONS

Precision planning

Precise planning of your biopsy, tumor, and shunt, using the planning software.

PACS integration

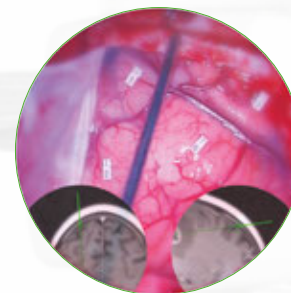
A direct connection to the existing PACS system is possible via network connection.

Automatic fusion – Image fusion of MRI and CT image data

The image fusion software enables automatic and multiple superimpositions of CT, DVT and MRI image data. The fusion can be individually and continuously adjusted, surviving as an indispensable tool in tumor surgery.

Microscope integration

- » Support your workflow by reproducing the navigation information in the eyepiece of your microscope.
- » Through integration in your microscope and electromagnetic navigation system, there is no “line-of-sight” problem.





**SIMPLE
AND
INTUITIVE
WITH
FIAGON**

NAVIGATION ON THE SPOT

WITH NAVIGATED INSTRUMENTS FROM FIAGON

Fiagon instruments have unique proprietary technology allowing navigation to occur directly at the tip. This ensures the highest degree of precision during routine O.R. procedures changing the standard of patient care.

Convenient and precise – non-sterile registration with the **RegistrationPointer**.

- » Ball tip
- » Reusable



The malleable **FlexPointer** enables maximum precision.

- » Navigated at the tip
- » Flexible and bendable
- » Ø 1.5 mm



Navigate catheter shunt placements with the **ShuntPointer**.

- » For ventricular catheters with $a \geq 1.2$ mm diameter.
- » 200 mm long
- » Ø 1.05 mm

Navigated **BiopsyPointer** for use with brain biopsy cannulas with a 1.8 mm diameter.

- » For biopsy cannulas 190 to 250 mm
- » Ø 1.2 mm



More information by
scanning the QR code or
under www.fiagon.com



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