UpSurgeOn

NavigationHead Hemispheric Approaches

All-in-One Training and Showcasing Technology for Navigated Oncological, Vascular, and Functional Neurosurgery

Expand your Box with Neuronavigation

Compatible with:

Interhemispheric Approaches; Brain Tumor Resection; Stereotactic Biopsies; Intracerebral Hemorrhage (ICH).

Neuronavigation is a technology that helps neurosurgeons design the best trajectory to an intracranial pathology.
This UpSurgeOn Box extension and its MRI are changing the way education works! It allows you to place your scenario inside it, fix the head with the head holder and carry out neuronavigation.

Features

- 25 Fiducial markers
- MRI with different pathologies included (depending on the scenario)
- Made of the highest quality materials
- Robust construction

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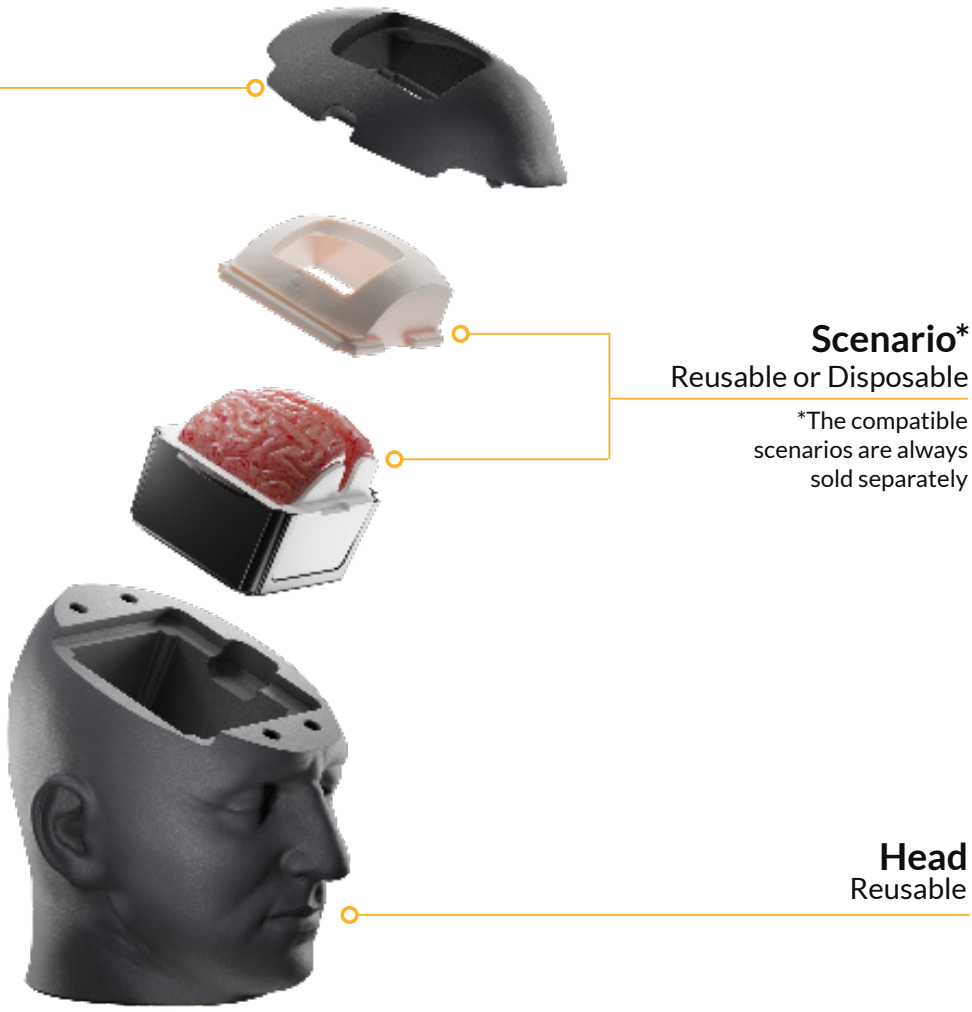
How it is composed

Head Cap
Reusable



Scenario*
Reusable or Disposable

*The compatible scenarios are always sold separately

Head
Reusable

Compatible technologies

Choose Your Scenario* and Master Advanced Neurosurgery:

- **Interhemispheric Scenario:** Midline Anatomy Exploration with Advanced Navigation;
- **BrainTumor Scenario:** Realistic Tumor Surgery Simulations for Safer Outcomes;
- **Disposable Brain for Stereotactic Hemispheric Scenario:** Advancing Three-Dimensional Targeting Skills in Functional Neurosurgery;
- **ICH Scenario:** Advanced Neurosurgical Training for Hemorrhage Cases.

**The Scenarios are sold separately.*

BrainTumor Scenario

PF_NS_STBX_001.01

ICH Scenario

PF_NS_STBX_001.01

Interhemispheric Scenario

PF_NS_SINT_001.01

Disposable Brain for Stereotactic Hemispheric Scenario

PF_NS_DNBT_001.01

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Interhemispheric Scenario:
Midline Anatomy Exploration with Advanced Navigation

Product Code: PF_NS_SINT_001.01
Reusable Scenario | Compatible with Disposable Skulls

The Interhemispheric Scenario focuses on the surgical exploration of midline structures, allowing precise simulation of interhemispheric approaches. This scenario supports skill-building for complex midline pathologies, with evidence demonstrating improved surgical planning and anatomical understanding.

BrainTumor Scenario:
Realistic Tumor Surgery Simulations for Safer Outcomes

Product Code: PF_NS_STBX_001.01
Reusable Scenario with Disposable Cartridges | Compatible with Disposable Skulls

The BrainTumor Scenario replicates the challenges of tumor resection in neurosurgery, equipping learners with the skills to perform delicate procedures in anatomically complex regions. Utilize neuronavigation tools to design precise trajectories to tumor sites. This scenario is equipped with 5-ALA fluorescence and bleeding feature.

Disposable Brain for Stereotactic Hemispheric Scenario:
Advancing Three-Dimensional Targeting Skills in Functional Neurosurgery

Product Code: PF_NS_DNBT_001.01
Disposable Scenario | Compatible with Disposable Skulls

The Stereotactic Hemispheric Scenario replicates brain tissue to facilitate deep brain targeting for tumor biopsies and electrode placement in therapeutic interventions such as Deep Brain Stimulation (DBS). This scenario is fully compatible with MRI images for navigation, enabling precise navigated biopsies.

ICH Scenario:
Advanced Neurosurgical Training for Hemorrhage Cases

Product Code: PF_NS_STBX_001.01
Reusable Scenario with Disposable Cartridges | Compatible with Disposable Skulls

The ICH Scenario (Intracerebral Hemorrhage) is a cutting-edge scenario for advanced neurovascular training, focusing on the intricate management of intracerebral hemorrhages.
Train to access deep-seated hematomas safely; practice resections using microscopes/exoscopes in a controlled environment and learn effective hemostasis techniques to handle complications.

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Craniotomies with disposable skulls*

Perform craniotomies, dural openings, and reconstructions using disposable Interhemispheric skulls.

Afterwards, replace the skull and restart as many times as needed.

- Craniotomy Planning
- Craniotomy
- Dura opening
- Dura suspensions
- Dura closing
- Skull closing/reconstruction

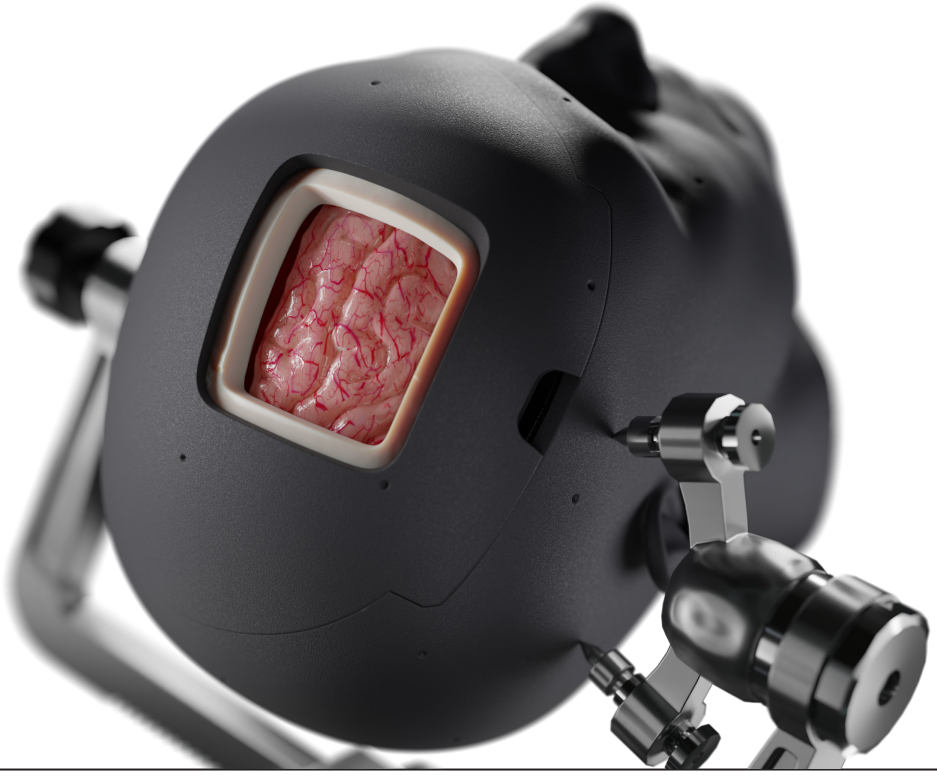
**Disposable skulls are compatible with all the Hemispheric Scenarios available for this NavigationHead*

Neuronavigation with NavigationHead

The head holder ensures stable and precise head positioning, replicating real surgical conditions and enabling Navigation and Stereotactic procedures. This simulator provides a high-impact, immersive training experience when used in combination with neuronavigation systems and the head holder.*

**Please verify compatibility with your navigation system, as the device contains magnets.*

Each simulator is sold with a USB containing MRI images related to the selected scenario, providing a comprehensive and realistic hands-on experience for refining surgical skills and demonstrating techniques with exceptional precision.



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What is included

- Navigation Head:
  Head, Cap
- USB with MRIs for Navigation
- Quick Start Guide

The Scenarios are sold separately.
Head holder is not included in this package.

General warnings

THIS PRODUCT CONTAINS METAL MAGNETS: DO NOT PUT IT INTO A MAGNETIC RESONANCE SCANNER AND DO NOT USE IT WITH ANY MACHINE THAT WORKS WITH ELECTROMAGNETS

- Adult assembly required
- Never leave children unattended with the NavigationHead
- Never put hot liquids inside the NavigationHead
- Never put chemical substances inside the NavigationHead
- Wash with water, do not use chemical products
- Do not leave water inside
- Protect the product from dust or any other powder
- Keep the product in a dry environment
- Keep the product away from any heat source

All materials used to produce UpSurgeOn products are certified, safe and non-toxic. Use of gloves, protective glasses and mask is always suggested to maintain the cleanliness of the simulator and the tools, and as a standard practice during each simulation. Wearing safety equipment is mandatory in the use of drilling simulation.

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Making surgical excellence universally accessible

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UpSurgeOn is a high-tech company specialized in psychomotor skill augmentation in microsurgeries through the use of cutting-edge virtual and physical simulation technologies.

Go to website www.upsurgeon.com

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