Spine Series

∼ UpSurgeOn

Endoscopic LumbarBox

10 Operable Levels From L1 to S1 - Left/Right

Pathologies

Medial / Paramedian / Foraminal herniations, grouped into 3 different Spine Levels.

Features

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Modularity

10 Operable Levels in 1 single simulator | 3 Different Spine Levels Two disposable levels: Skin Level + Spine Level

Surgical Realism

With this simulator, we have achieved the highest level of realism ever seen in endoscopic surgery.

► UpSurgeOn

Water Managment

Endoscopic LumbarBox is designed to manage high irrigation flows through a modular water collection system.

Mobile X-Ray*

Get the Neurosurgery App* to simulate fluoroscopy with Mobile X-Ray Technology to set your trajectory and navigate your endoscope in real time. *Attention: Mobile X-Ray module works on Apple Devices only.

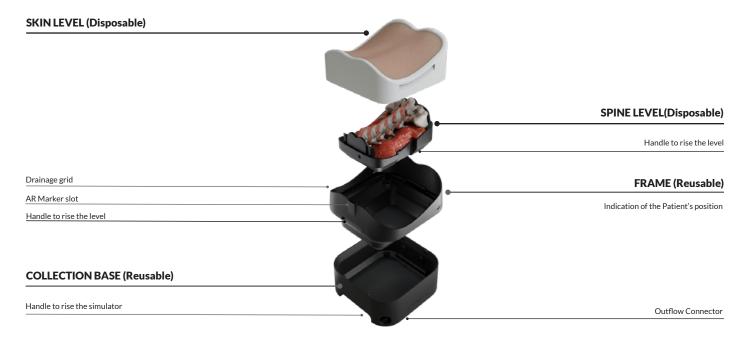


Standard X-Ray and CT Scan

The simulator is compatible with standard X-Ray, fluoroscopy and CT. Scan it and visualize the positioning of the fixation implants. *Feature available upon request



How it is composed



The highest level of detail _____

10 operable levels in 1 single simulator **3 Different Spine Levels** 2 Compatibility Versions: Standard X-Ray compatible and non-compatible

PROCEDURES:

- PELD (Percutaneous Endoscopic Lumbar Discectomy)
- TELD (Transforaminal Endoscopic Lumbar Discectomy)
- Monoportal and biportal procedures
- Translaminar procedures
- Vertebroplasty

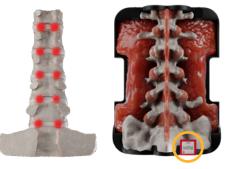








Spine Level Paramedian Herniations



Surgical Capabilities

- Multiple endoscopic laminectomies and flavectomies (L1-L5)
- Multiple endoscopic discectomies
- Nerve root decompression through discectomies feasible from L1 to S1 (5 discectomies, L1-2, L2-3, L3-4, L4-5, L5-S1)
- 8-9 mm interlaminal spaces

Pathologies

- L1-L2 | Bilateral paramedian herniation
- L2-L3 | Bilateral paramedian herniation
- L3-L4 | Bilateral paramedian herniation
- L4-L5 | Bilateral paramedian herniation
- L5-S1 | Bilateral paramedian herniation



Non Flouroscopic Version Not compatible with Standard X-Ray



Flouroscopic Version

Compatible with Standard X-Ray

Spine Level Mixed Pathologies



Surgical Capabilities

- Multiple endoscopic laminectomies and flavectomies (L1-L5)
- Multiple endoscopic discectomies
- Nerve root decompression through discectomies feasible from L1 to S1 (5 discectomies, L1-2, L2-3, L3-4, L4-5, L5-S1)
- 8-9 mm interlaminal spaces

Pathologies

L1-2 Left | Paramedian Herniation L1-2 Right | Extraforaminal Herniation L2-3 | Central Herniation L3-4 Left | Foraminal Herniation L3-4 Right | Paramedian Herniation L4-5 Right | Extraforaminal Herniation L5-S1 Left | Foraminal Herniation L5-S1 Right | Paramedian Herniation



Non Flouroscopic Version Not compatible with Standard X-Ray



Flouroscopic Version

Compatible with Standard X-Ray

Datasheet



Spine Level Bone Augmentation

NB: This Spine Level is available only with Standard X-Ray compatibility



Surgical Capabilities

• Vertebroplatsy

• 8-9 mm interlaminal spaces

Pathologies are not available in this Spine Level



Flouroscopic Version Compatible with Standard X-Ray

Non Flouroscopic Version

Not available for this Spine Level



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Surgical Realism



1. Ultra-accurate anatomy 2. Hyper-realistic materials 3. Designed for wet and dry simulation

ANATOMY INCLUDED IN THIS APPROACH:

- •Skin
- • Subcutaneous fat
- • Paravertebral muscles
- •Vertebras from L1 to S1
- •Flavum Ligament
- •PLL (Posterior Longitudinal Ligament)
 •ALL (Anterior Longitudinal Ligament)
- •Spinal cord

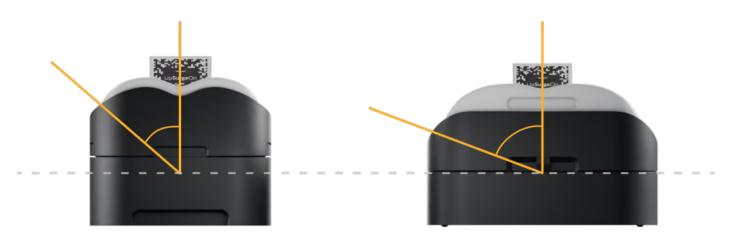
- •Nerve roots
- Peridural fat
- • Peridural fat





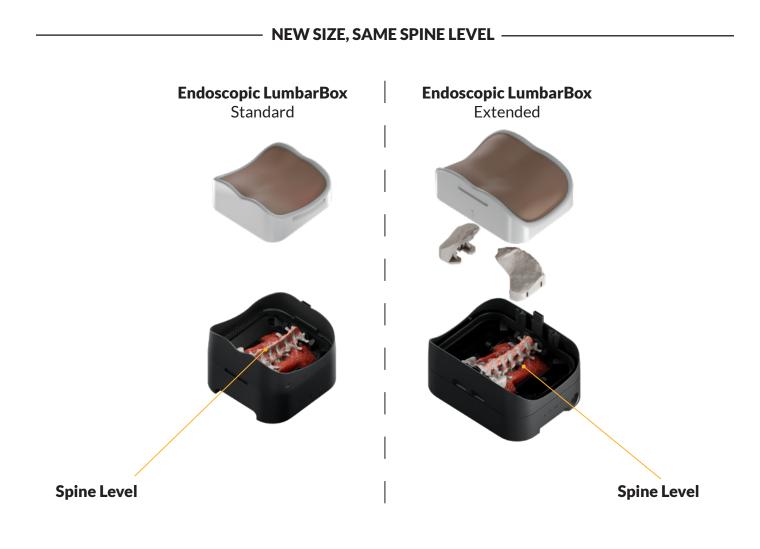
Endoscopic LumbarBox Extended Version

Designed also for endoscopic transforaminal approaches



WHAT YOU CAN DO

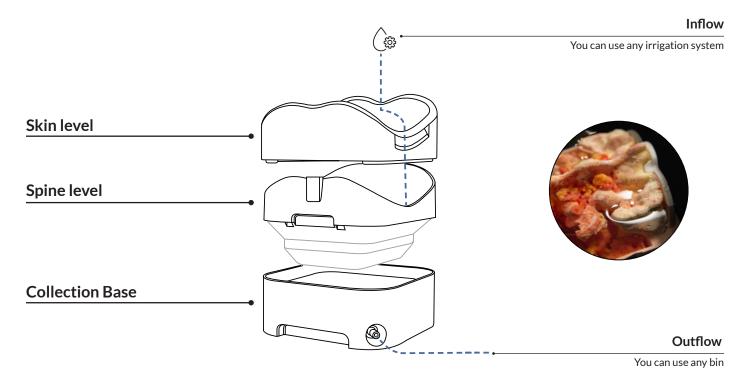
In the **Extended** version, it is possible to perform all the procedures found in the **Endoscopic LumbarBox** with the addition of the more lateral approaches. The **Extended** version uses the same spinal levels as the **Endoscopic LumbarBox**



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Water Managament

The simulator is equipped with an internal water drainage and outflow system, facilitating the management of high endoscopic flows anywhere and preventing any leakage during surgical procedures.

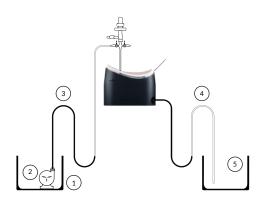


UpSurgeOn Irrigation System*

If requested, UpSurgeOn can provide a complete Irrigation KIT that includes:

- 1. Inflow Container
- 2. Water Pump
- 3. Pipe
- 4. Drainage Pipe
- 5. Outflow Container

*Sold separately





Datasheet

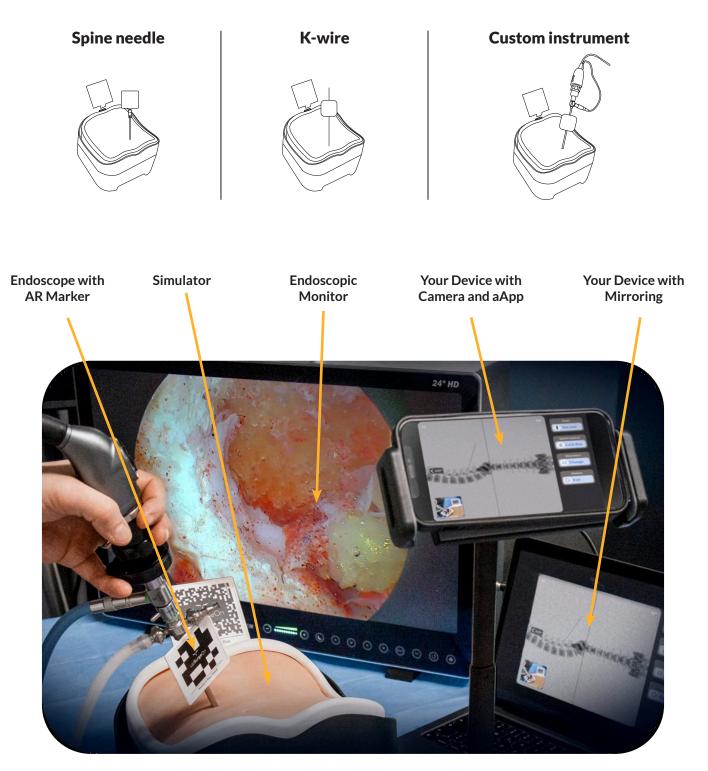
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Mobile X-Ray

Get the Neurosurgery App* to simulate fluoroscopy with Mobile X-Ray Technology to set your trajectory and navigate your endoscope or any other tubular instrument in real time.

*Attention: Mobile X-Ray module works on Apple Devices only.



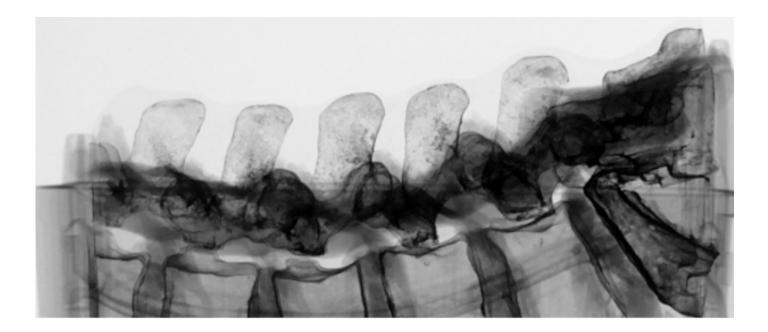


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Standard X-Ray and CT Scan*

The Endoscopic LumbarBox, in addition to the Mobile X-Ray Feature, is compatible with Standard X-Ray. Thanks to its compatibility, fluoroscopies can be performed at the end of your exercise to verify the positioning of the fixation implants, and the success of your surgery.

*Feature available upon request.



What is included

- Endoscopic LumbarBox:
 - 1 Skin Level
 - 1 Spine Level
- 1 Collection Base
- Mobile X-Ray Kit
- Drainage Pipe





General warnings

The use of gloves, protective glasses and mask is mandatory to protects you from potential injury while drilling and helps maintain the cleanliness of the simulator and tools.



THIS PRODUCT CONTAINS METAL MAGNETS:

Do not put this product into a Magnetic Resonance Scanner (MRI) or use it with any equipment that operates with electromagnets to avoid damaging the product or the MRI equipment.

- Use the drill ONLY when the Skin Level is assembled over the Spine Level
- Wear mandatory safety equipment while using the simulator
- This product requires adult supervision during assembly
- Never leave children unattended with the box to prevent accidents or misuse
- Never put boiled or hot liquids above the tools and the simulator
- Never put chemical substances above the tools
- Wash with water, do not use chemical products
- Do not use boiled or hot water for the irrigation system
- Keep the product away from any heat source
- Always drain the water from all components after use and dry them to prevent mold growth
- Store the product in a dry environment

Reach out to us

If you wish to acquire further information, please contact us at the following contact details according to your country of origin.

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UpSurgeOn is a hi-tech company specialized in psychomotor skill augmentation in microsurgeries through the use of bleeding-edge virtual andphysical simulation technologies.



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