



SPINEX

X-RAY SPINE NAVIGATION

Quick registration with
2 X-ray images

 **SAPHIREX**
SURGICALS



X-ray Spine Navigation

Introducing SpineX, a revolutionary navigation system designed for spine surgeries.

- Accurate and precise spine surgery for optimal patient outcomes.
- Requires only two orthogonal X-rays, such as Antero-Posterior (AP) and Lateral, from a C-arm.
- Effortless automatic patient registration procedure.
- Minimal additional setup time required.
- Universally compatible with all 9-inch C-arms and fluoroscopes in the market.
- Streamlined automatic patient registration process.

Accuracy and Safety

- Enhance surgical outcomes.
- Minimized Tissue Damage
- Minimize the risk of complications.

Benefits

- Straightforward, efficient, and dependable in operation.
- Significantly reduce X-ray exposure for surgeons, OT staff, and anesthesiologists by nearly 80%.
- Eliminate the need for any additional setup time.
- Seamlessly integrate into the existing spine surgical workflow.
- Requires minimal involvement from the surgeon.
- Requires no extensive training or learning curves.



Unique Features

- Elegant and compact cart design with a mobile camera arm.
- State of the art optical tracking system for accuracy
 - Spine surgery instruments designed to be ergonomic and lightweight.
 - Versatile tracking system for seamless navigation of surgical instruments from various vendors.
 - Simplified and automated registration process and workflows for ease of use.
 - Interactive planning stations facilitating screw selection, angles, trajectories, and precise screw placements.
 - Universally compatible with all C-arms.

Optical Tracking System

- Best in class optical tracker with minimal footprint
- Time tested accuracy and precision
- Optical tracking volume



Display

- 27 inch iMac screen
- 5 k retina display
- Reliability of Mac iOS
- Anti-reflective coating



(Minimal glare for maximum focus)

Work flow

- Obtain two orthogonal X-rays using any C-arm equipped with the provided localizer.
- Upload the images into the system.
- Once the fiducials are marked, the navigation is ready for use.



Tools

- 1.Short Probe
- 2.Long Probe
- 3.Universal Tracker
- 4.Navigation arm
- 5.Biopsy Tracker with pipe
- 6.Extension Arm
7. Table adapter for spine
- 8.Reference geometry with male profile
- 9.Acrylic plate with block



Surgeries Supported

All spine instrumentation procedures

- Micro-lumbar discectomy
- Decompressions and pedicle screw insertions
- Deformity corrections surgeries

Percutaneous procedures

- MIS TLIF • MIS • Endoscopic decompressions and disc surgeries

Minor procedures

- Root blocks, spinal injections, extradural blocks
- Vertebroplasties and kyphoplasty
- Vertebral biopsy



Awarded by **MSME**
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RXOOM Healthcare Pvt. Ltd.

Plot No 14, Office No.3 ,
Electronic Co-operative Estate Ltd. Parvati,
Pune 411009, India
www.saphiresurgicals.com

