



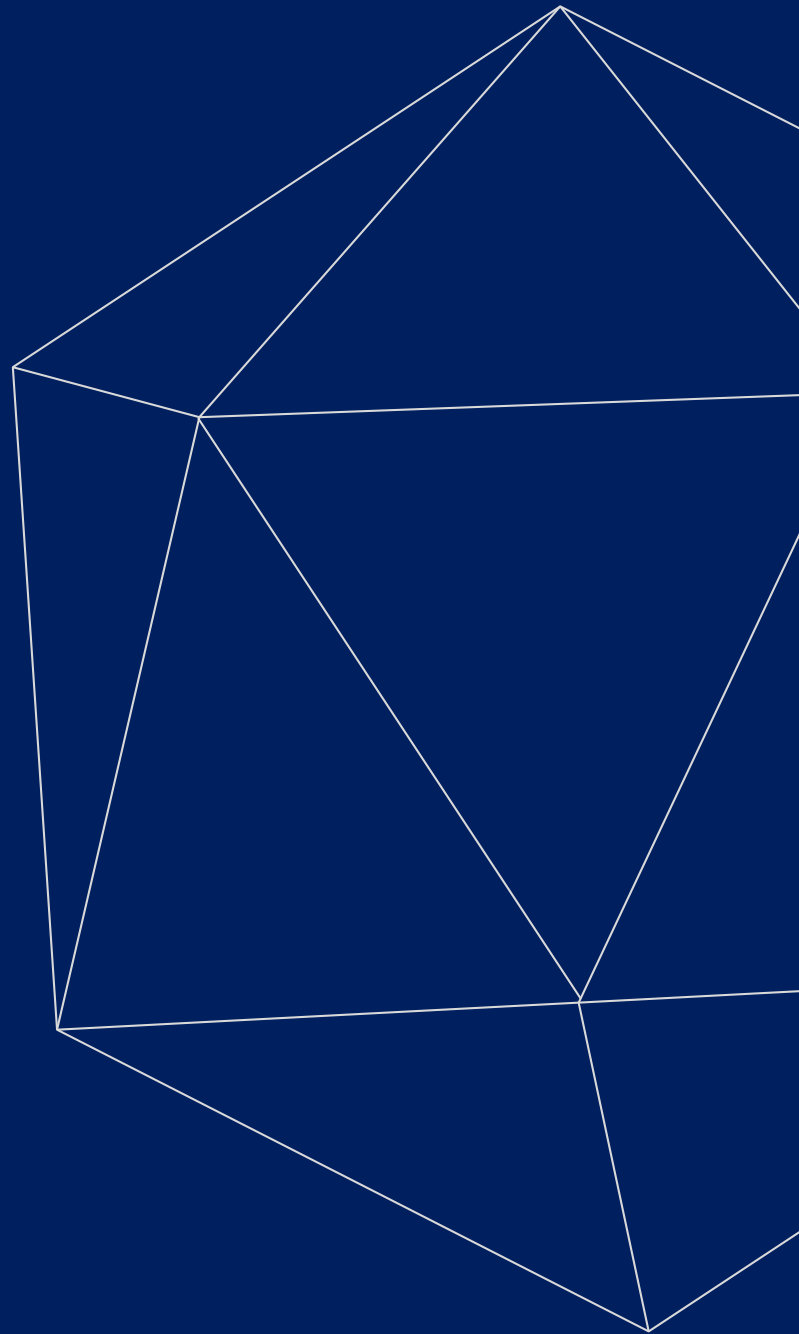
MEDICAL SECTOR

OPTICAL SURGICAL NAVIGATION



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KALSTEIN® Optical Surgical Navigation
Surgical Navigation Systems

Model YR02143



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KALSTEIN® Optical Surgical Navigation Surgical Navigation Systems

Model YR02143



Product Description:

YR02143 is an innovative computer-aided electromagnetic surgical navigation system, widely used for surgical visualization, planning and navigation to help minimize iatrogenic trauma to surrounding brain tissue and reduce the risk of surgical complications in cranial procedures (such as cranial neurology and ENT surgery).

- ✓ Tomographic images in DICOM and captured with CT / C-arm / MRI / fMRI are applicable in the YR02143 surgical navigation system.
- ✓ Advanced optical tracking system tracks real-time 3D position and orientation of active or passive markers attached to surgical tools, to provide exceptional precision (1.0mm spatial resolution) and reliability.
- ✓ The method of 3D modeling and simulation of anatomical structures in material (such as skin, skull, brain tissue, or target lesion) can be easily defined for surgical convenience.
- ✓ With the integrated navigation probe and advanced optical measurement technology, the surgeon can easily quantify the size and position of lesions, and then scientifically design the surgical approach.
- ✓ The system provides operators with four navigation modes for comprehensive monitoring of the navigation process.
- ✓ Intelligent software will help calibrate and compensate for unexpected changes in anatomical structure and brain change induced by removal of the intracranial lesion area.
- ✓ The YR02143 navigation system can be operated with a surgeon mouse or touch monitor mounted on the mobile cart or on the ceiling suspension arm.

The system automatically saves all patient image data and registration information, allowing the surgeon to quickly load and continue surgical navigation against unexpected power outages.

App:

The YR02143 Optical Surgical Navigation System can be used for all ENT and neurological surgeries, especially deep intracranial lesions, intracranial low volume lesions, minimally invasive edge intracranial lesions, and minimally invasive surgeries.



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Technical Specifications:

| Model | YR02143 | |
|--------------------------------------|-----------|---|
| Component | Amount | Description |
| Optical tracking system | | |
| NDI tracking system | 1 set | Track 3D position and orientation of active or passive markers attached to surgical tools |
| Image management workstation | | |
| Computer system | 1 set | For 2D image fusion and 3D reconstruction, navigation system |
| Touch monitor | 1 piece | 19", 1280 x 1024 resolution, medical and healthcare grade |
| Software package | 1 set | Core set (image fusion, surgical planning and navigation, data management) |
| Software version 1 | 1 piece | Diffusion-tensor-images navigation module |
| Software version 2 | 1 piece | Needle-Aspiration-Biospy navigation module |
| Mobile car | | |
| Support trolley with 4 wheels | 1 piece | To support the optical tracking system and image management workstation |
| Surgical tools | | |
| Navigation probe | 2 pieces | To help the optical measurement system track movement |
| Microscope probe | 1 piece | To help the optical measurement system track movement |
| Active marker | 6 pieces | To help quickly recognize critical anatomical structures. |
| Passive reflective sphere | 10 pieces | To reflect the infrared laser for cameras (in the optical tracking system) to capture |
| Framework | 2 pieces | To locate passive reflective sphere with 4 pins |
| Articulated arm | 1 piece | To hold the frame of reference |
| Clamp adapter | 2 pieces | For the adaptation of another instrument (such as the brain needle during navigation) |
| Foot-switch | 1 piece | To help register and navigate |



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KALSTEIN® Optical Surgical Navigation Surgical Navigation Systems

Model YR02143



| Touchmonitor specification | | | |
|-------------------------------------|---|---|---|
| Case / bezel color | Beige | Mini VGA D-sub 15-pin; DVI-D | Mini VGA D-sub 15-pin; DVI-D |
| Display | Size: 19.0 "diagonal, active matrix TFT | Horizontal: 31.5-80 kHz | Horizontal: 31.5-80 kHz |
| | Aspect ratio: 5; 4 | Vertical: 56.3-75 Hz | Vertical: 56.3-75 Hz |
| Useful display area | Horizontal: 14.82 "(376.32 mm) | Type: 100-240 VAC, 50-60 Hz | Type: 100-240 VAC, 50-60 Hz |
| | Vertical: 11.85 "(301.06 mm) | Internal DC input power supply | Internal DC input power supply |
| Monitor dimensions | Width: 429mm (16.9 ") | DC input voltage (line): 12V 3.6V | DC input voltage (line): 12V 3.6V |
| | Height (including stand): 15.21 "(386 mm) | 48 W max. | 48 W max. |
| | Depth (inc. Base) | Operating; 0 ° C to 40 ° C | Operating; 0 ° C to 40 ° C |
| Native resolution (optional) | 1280 x 1024 @ 60/70/75 Hz | Storage: -20 ° C to 60 ° C | Storage: -20 ° C to 60 ° C |
| Other supported resolutions | 1280 x 960 / 1,024 x 768 in Hz | Operating: 20% -80% | Operating: 20% -80% |
| Colors | 16.7 million | Storage: 10% -90% | Storage: 10% -90% |
| Brightness | LCD panel: 300 cd / m2 | Actual: 17.66 lbs. (8 kg) | Actual: 17.66 lbs. (8 kg) |
| | With AccuTouch: 246 cd / m2 | Shipping: 25.10 lbs (11.84) | Shipping: 25.10 lbs (11.84) |
| | With IntelliTouch: 276 cd / m2 | 3 years | 3 years |
| Response time | 20 msec (typical) | Typical 40,000 hours at half brightness | Typical 40,000 hours at half brightness |
| Vision angle | Horizontal (left / right): 89 ° / 89 ° | MTBF; 50,000 hours demonstrated | MTBF; 50,000 hours demonstrated |
| (Typical, from the center) | Vertical (up / down): 89 ° / 89 ° | UL, Cul, fcc, ic, ce, China RoHS, Argentina S mark | UL, Cul, fcc, ic, ce, China RoHS, Argentina S mark |
| Contrast ratio | 1300: 1 (typical) | Two watt / channel speakers located in the display head | Two watt / channel speakers located in the display head |
| Input video format | Analog: (no video card needed) | OSD locks for user and power controls | OSD locks for user and power controls |
| Input sync format | Separate horizontal and vertical | OSD extras include volume, treble, bass, balance | OSD extras include volume, treble, bass, balance |
| | Synchronization, compound synchronization and | OSD Language (English, Chinese, Spanish, French) | OSD Language (English, Chinese, Spanish, French) |
| | Synchronization in green | Safety lock receptacle | Safety lock receptacle |



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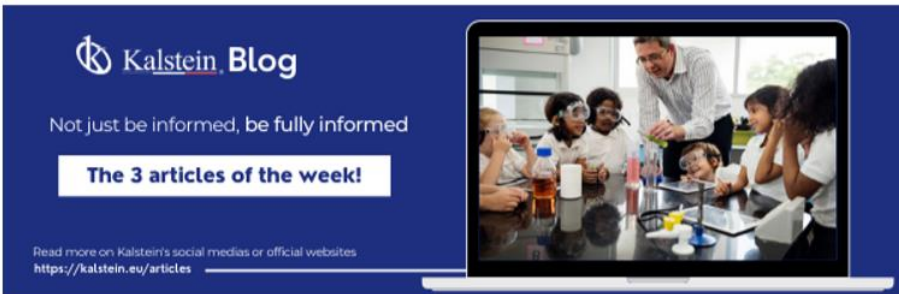
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