Optical Surgical Navigation

Model : YR02143
Optical Surgical Navigation
Manufacturer : Kalstein

Price : $ 0.00

Description :

Navigation Chirurgicale Optique

Features:

- Tomographic images in DICOM and captured with CT/C-arm/MRI/fMRI all are applicable in YR-02143 surgical navigation system.
- Advanced optical tracking system tracks real-time 3D position and orientation of active or passive markers attached to surgical tools, to deliver exceptional accuracy (spatial resolution 1.0mm) and reliability.
- 3D modelling and simulation method of anatomical structures in material (like skin, skull, brain tissue or target lesion) can be easily self-defined for surgical convenience.
- With navigation probe and advanced optical measurement technology integrated, surgeon can easily quantify the size and position of lesions, then design surgical approach the scientific way.
- The system provide operators four navigation modes for all-round monitoring of navigation process.
- The intelligent software will help calibrate and compensate for unexpected anatomical-structure change and brain shift induced by removal of intracranial lesion area.
- YR-02143 navigation system can be operated with surgeon mouse or touchmonitor mounted on the mobile cart or ceiling-suspension arm.
- The system automatically save all patient image data and registration information, so as to let surgeon quickly load and continue surgical navigation against unexpected cut-off of electricity supply.

Parameters by Model

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Model	YR02143	
Component	**Amount**	**Description**
Optical Tracking System		
NDI Tracking System	1 Set	Track the 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 pc	17", resolution 1280x1024, medical and health-grade
Software Package	1 Set	Basic set (image fusion, surgical planning and navigating, data management)
Software Extension 1	1 pc	Diffusion-Tensor-Imaging navigation module
Software Extension 2	1 pc	Needle-Aspiration-Biospy navigation module
Mobile Cart		
Support Cart With 4 Castors	1 pc	To support optical tracking system and image manage workstation.
Surgical Tools		
Navigation Probe	2 pcs	To help optical measurement system track the movement
Microscope Probe	1 pc	To help optical measurement system track the movement
Acitive Marker	6 pcs	To help quickly recognize the critical anatomical structures
Passive Reflective Sphere	10 pcs	To reflect the IR laser for cameras (in optical tracking system) to capture
Reference Frame	2 pcs	To locate passive reflective sphere with 4 pins
Articulated Arm	1 pc	To hold the Reference frame
Plier-shaped Adaptor	2 pcs	For adaption of other instrument (like brain needle) during navigation
Foot-swith	1 pc	To help register and navigate

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