

neurolocate™ frameless patient registration module - key features



About the *neurolocate* patient registration module

The *neurolocate* module provides a frameless patient registration method for use with the Renishaw *neuromate*® stereotactic system.

Key features

- Frameless patient registration with frame-based accuracy.
- Potential for time and cost saving due to the ability to register the patient using intraoperative imaging.
- Greater patient comfort due to shorter procedure times and absence of bone-anchored fiducials.
- Increased flexibility of the patient head position due to the adjustable nature of the fiducial marker frame.
- The *neurolocate* module does not require bone or skin anchored fiducials to enable patient registration.
- With both CT and X-ray compatible modules available, the *neurolocate* module is able to integrate with your hospital's existing technology.

Registration workflow with the *neurolocate* module



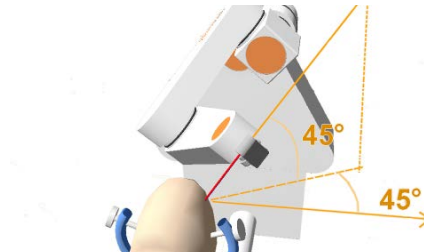
1. At the start of the procedure, the checking gauge may be used to check the geometry of the fiducial marker frame.

2. The fiducial marker frame is identified within the software (using its serial number), to load the correct calibration parameters.



3. The *neurolocate* fiducial marker frame module kinematically attaches to the laser tool holder that is mounted on the *neuromate* arm, to provide precise positioning.

4. The fiducial marker frame is moved into an optimal registration position using the *neuromate* remote control. The kinematic mount from the fiducial marker frame also acts as a safety feature if the robot is moved too close to the patient.



5. Either CT or X-ray image acquisition is performed and subsequently loaded into the planning software. Fiducials are identified and the registration process is completed.

6. Registration is verified with the laser tool using anatomical landmarks or skin fiducials.

Further information

If you would like additional information on this product, or others in the neurological products range please contact your local sales representative or email neuro@renishaw.com.

For worldwide contact details, visit www.renishaw.com/contact

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