



# ExcelsiusGPS™

REVOLUTIONARY ROBOTIC NAVIGATION

ExcelsiusGPS™ is a revolutionary robotic navigation platform. The system is designed to be intuitive and streamline the surgical workflow. Real-time tracking of instruments and implants, along with audible, visual, and tactile feedback, enables confidence throughout the procedure.

## ROBOTIC GUIDANCE

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The active **End Effector** regularly communicates with the camera to dynamically adjust arm position and optimize kinematics. The End Effector aligns the rigid robotic arm along the planned trajectory to enable precise implant placement with GPS instruments.



# NAVIGATION

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ExcelsiusGPS™ provides **real-time visualization** of instrument and implant positioning with respect to patient anatomy which may help reduce the amount of radiation required throughout the procedure. Navigation provides continuous feedback and visualization. Surgeons confirm final implant positioning and ultimately receive more information to make informed clinical decisions.



# MINIMAL SETUP

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Setup for ExcelsiusGPS™ involves system draping and simple positioning of the frameless robotic arm. When the procedure is complete, the camera stand docks into the base station as one mobile unit for **easy storage and movement** between operating rooms.





## RIGID ROBOTIC ARM

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The robotic arm automatically moves along the planned trajectory. The rigidity of the robotic arm **remains stable** during implant insertion on steep trajectories.



# INTEGRATED INSTRUMENTS

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Each GPS instrument has an array independently recognized by the camera and displayed on the monitor in relation to patient anatomy. The instruments **seamlessly engage with the End Effector** to enable one-handed use and to confirm alignment on the planned trajectory.







## IMAGING COMPATIBILITY


*ExcelsiusGPS™ is **compatible with preoperative CT, intraoperative CT, and fluoroscopic imaging systems.** This versatility allows the system to fit into any surgical workflow and enables planning and navigation in 2D or 3D.*




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