



Aurora[®]

Navigate new possibilities in OEM image-guided applications with our premier, highly customizable electromagnetic tracking solution that supports today's most intricate interventional approaches: Aurora[®]

The Aurora solution tracks micro sensors that can be embedded into OEM medical instruments. When integrated into the workflow of OEM image-guided surgery systems, the Aurora acts as the link between patient image sets and 3D space, allowing instruments to be instantly localized and visualized within the host interface – even during in-vivo procedures. No line of sight is needed.



*Simulated example of OEM application

The Aurora[®] solution consists of four interconnected components to track the real-time positions and orientations of embedded sensors. Components are available in different sizes and formats—and highly customizable—for seamless integration into OEM image-guided surgery systems and workflows in interventional radiology, electrophysiology, endoscopy, ENT surgery, and more*. Exceptional tracking performance ensures OEM medical instruments are navigated to the treatment site exactly as planned, every time.

System Control Unit (SCU)

Controls the FG, collects information from the SIUs, calculates the position and orientation of each sensor, and interfaces with the host computer. Available in enclosed and PCB formats, which supports standalone applications or integration into OEM carts.



Dimensions (enclosed format):	84 x 172 x 230 mm
Weight (enclosed format):	2.0 kg

Sensor Interface Unit (SIU)

Amplifies and digitizes the signals from the sensors. Up to two SIUs can be connected to a single SCU. Available with 2, 4, 6, or 8 ports; each port can support one 6DOF sensor/tool or two 5DOF sensors/tools. Available in enclosed and PCB formats.



Dimensions (enclosed format):	53 x 172 x 114 mm
Weight (enclosed format):	660 g

Field Generator (FG)

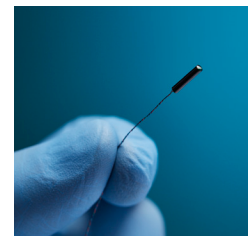
Emits a low-intensity, varying electromagnetic field and establishes the position of the measurement volume. There are five Aurora FGs, each with distinct measurement volume, form factor, and mounting options. The FGs feature plug-and-play functionality with the System Control Unit.



Dimensions (for Planar 20-20 FG):	200 x 200 x 71 mm
Weight (for Planar 20-20 FG):	2.6 kg

Sensors

Act as localization points within the measurement volume, with position and orientation data relayed to the host interface for visualization. Sensors can be embedded into OEM medical instruments such as ultrasound probes, scopes, catheters, guidewires – even at the tip of a needle.



Number of Standard Sensors:	4 6DOF and 5 5DOF [†]
Max. Number of Tracked Sensors:	16 6DOF or 32 5DOF

[†] more available



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* Examples of an original equipment manufacturer's use of electromagnetic tracking technology in its medical device system.

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