

# AMIGO II

Catheter Precision



## Next generation surgical robotics system for cardiac catheter control

Amigo is a new generation of robotic catheter systems. It utilises a simple design and a familiar controller. Requiring less than one hour of practice, Amigo is designed to be easy to learn and offers significant decreases in navigation times.

### Expertise and domain knowledge

- Industrial Design
- Mechanical engineering
- System design
- System verification
- Surgical requirements
- Patient needs
- ISO 13485
- Commercial insight and understanding



## Our client asked:

Catheter Precision wanted to re-engineer their Gen 1 system to address cost, functionality and usability issues. They wanted a partner who could both identify the right concept approach and take the system through full development. Sagentia Innovation was initially engaged to generate subsystem concepts.

## Results: deliverables and outcomes

Based on results of the subsystem concepts Sagentia Innovation generated we progressed to undertake the complete system redevelopment including:

- Electro-mechanical drive systems.
- CPU-based motion control and FPGA-based safety architecture.
- Industrial Design.
- Sterile disposables development.
- System risk management.
- 13485 Technical File.
- Following novel concept work, the system was developed from specification to verification readiness in under 12 months.
- Functionality and usability was significantly improved over the Gen 1 system.
- A cost reduction of the order of 50% was also delivered over that of the Gen 1 system.

## Contact us

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