ASSISTANCE AND VOICE CONTROL FOR MEDICAL TECHNOLOGY

The digitalization and interconnection of medical procedures, equipment and devices are rapidly progressing. In addition, the integration of EDP-systems is of increasing importance to clinics and other healthcare facilities. This development not only results in an enhanced functionality but also creates a need for new forms of human-machine interaction. Voice and gesture are intuitive and natural ways to operate medical technology.

SemVox offers customized control solutions based on voice and gesture for all areas of medical technology. Voice and gesture allow hands-free control of equipment and contactless access to data. This enhances the accuracy of the results and system responses while distraction and interference with primary medical services are kept to a minimum. The cognitive load as well as the cost and resources of medical processes can be reduced.

SemVox solutions can be seamlessly integrated into intranets and private clouds or deployed directly on the devices (“embedded”). They can be flexibly configured according to the demands of manufacturers, integrators or operators. SemVox solutions can be deployed on all relevant target platforms (Linux, Windows, Android).

APPLICATION AREAS FOR ASSISTANCE SYSTEMS:

- CONNECTED OPERATING ROOM
- CENTRAL ACCESS TO ALL OPERATING ROOM COMPONENTS
- DIAGNOSTIC DISPLAYS: Work stations, viewing stations, display systems, imaging systems, e.g. for the operating room.
- LABORATORY DEVICES AND FEATURES
- SMART PATIENT BED SOLUTIONS: Control of all medical care functions, communication and entertainment systems by the patient via voice, touch or gesture.
- HOSPITAL INFORMATION SYSTEMS: Access to digital patient files via voice.

"SemVox technology on the basis of ODP S3 can be easily and seamlessly integrated into existing systems and infrastructures!"

BENEFITS FOR USERS AND INTEGRATORS:

- CONTACTLESS ACCESS AND CONTROL: Intuitive control for more comfort, hygiene and convenience.
- CONSISTENT USER INTERFACE: All medical devices, procedures and functions are operated via a single interface.
- MORE FLEXIBILITY: Operating room equipment can be controlled via voice by the surgical team in the sterile area.
- EFFICIENCY: Optimization of medical processes; distraction is significantly reduced.
- SEAMLESS INTEGRATION: Several data bases and other sources of information can be accessed simultaneously.
- REDUCED COGNITIVE LOAD: Reduced complexity of medical devices and procedures.
- SIMPLE SET UP AND MAINTENANCE
- STANDARD-COMPLIANT IMPLEMENTATION OF SOLUTIONS

SemVox uses the latest AI-technologies to create novel types of assistance systems and innovative voice and gesture control solutions. Human-machine interaction has never been easier! The basis of this intelligent technology is the software platform ODP S3, developed by SemVox. SemVox solutions are employed in a wide range of sectors such as automotive, smart home, home entertainment, mobile solutions, industrial applications and medical technology.