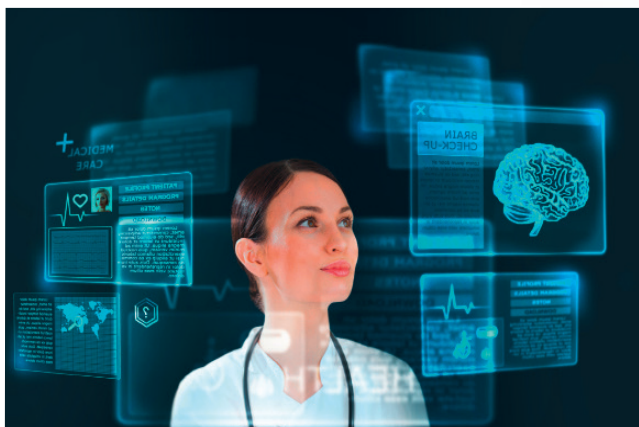# paragonsemvox

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.

paragon 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.

paragon 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. paragon 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.

> **"** paragon 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 MAINTAINANCE

► STANDARD-COMPLIANT IMPLEMENTATION OF SOLUTIONS

paragon 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 paragon semvox. paragon semvox solutions are employed in a wide range of sectors such as automotive, smart home, home entertainment, mobile solutions, industrial applications and medical technology.