A TOUCHLESS SYSTEM FOR SURGERY 2.0

Destined for the sterile areas of Operating Theatres, STS provides the doctor with a new tool to access and control biomedical images in **touchless mode**, through **Microsoft ©Kinect** for Windows technology. **STS** allows you to consult the patient’s complete documentation, even during surgery. The doctor can access all of this information in real time, without the need of any contact with the equipment. The high-definition images can be manipulated, rotated, zoomed and compared with natural and quick hand gestures. Revolutionizing the way you work does not mean disrupting the work environment: to be able to use **STS** you just need a PC, a monitor, a Microsoft ©Kinect for Windows device and a pedal board.

**Tech Spec:** Microsoft Cloud Storage | Windows 8.1 | RAM: 8 GB | Grafica dedicata con almeno 4GB di RAM

Realized under the **SIM** project (multimedia interaction development), **STS** is an experimental project conducted by **Proge-Software** in collaboration with the **University Campus Bio-Medico of Rome** and **NITEL** for the study of touchless interactive behaviors and application interfaces optimized for the use of Microsoft ©Kinect for Windows.

**STS is a cloud oriented solution:** it keeps all content in the Cloud, offering also the possibility of storage on local resources.
The graphical interface of STS is designed to facilitate interaction in the operating room using simple hand gestures, without requiring any contact with the equipment.

The touchless interaction takes place via Microsoft ©Kinect. STS has a gesture recognition library, specifically designed to ensure an easy and intuitive approach for the medical systems.

The pedal board is an instrument commonly used in medical devices, and it allows the doctor to enable or disable the interface of STS, as needed during the surgery.

STS supports medical images (DICOM format) and allows the consultation and manipulation of high-definition images. The system has gesture recognition algorithms, developed in collaboration with the technical and scientific staff of the Laboratory for Complex Systems and Security of the University Campus Bio-Medico of Rome.
STS - Surgery Touchless System
A Proge-Software solution developed in collaboration with University Campus Bio-Medico of Rome.

Innovative Digital Healthcare Solutions