



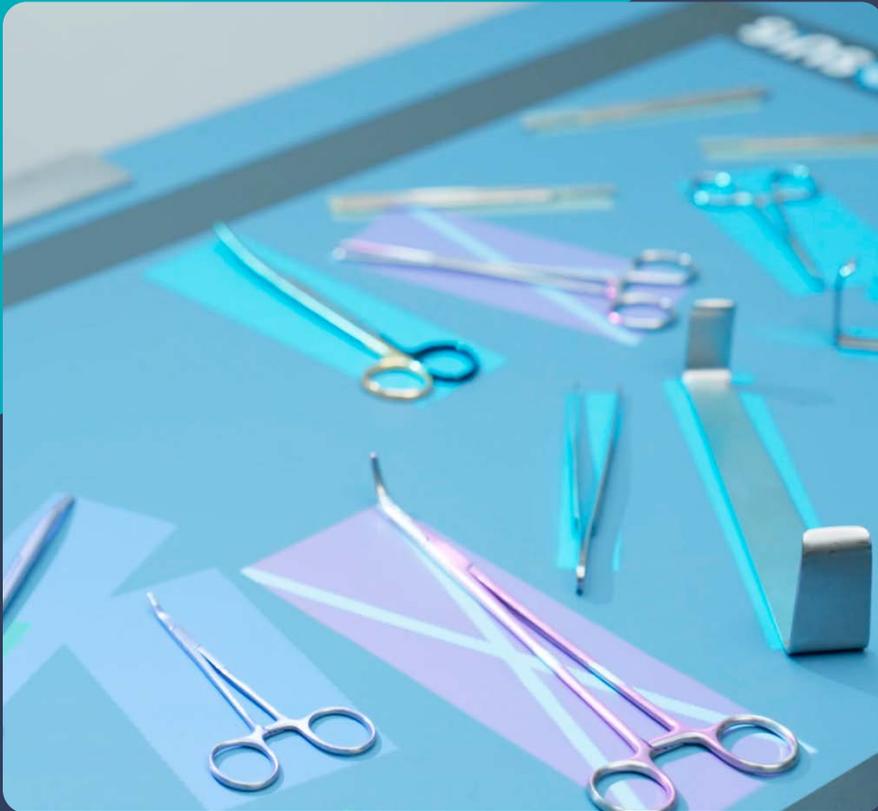
SUIS

SURGICAL INSTRUMENT SCANNER

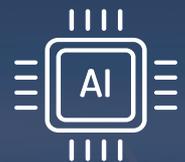


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 **SUIS**
SURGICAL INSTRUMENT
VISION SYSTEM



SURGICAL INSTRUMENT SCANNER



AI INTEGRATED INTO SIXSTER

Surgical Instrument Scanner is a configurable smart traceability workstation that supports CSSD operators at packing stations by quickly identifying groups of surgical instruments thanks to Artificial Intelligence technologies for recognition.

The scanner works with or without DataMatrix or RFID and does not need any mark on the instruments. The operator is then driven step by step in reassembling surgical instrument kits.



CAMERA/S

Cameras to frame the instruments on the table and recognize them



PROJECTOR

Projector to guide the operator during the recomposition of the kit



TOUCH-SCREEN

Touch-screen to interact with traceability software



VOICE RECOGNITION

Microphone for voice instructions

MAIN FEATURES

IMPROVED PATIENT SAFETY

- ✓ Recognition of the content of surgical kits
- ✓ Creation of detailed reports including check-list, number of instruments, comments and anomalies
- ✓ Tray accurately reassembled according to the CSSD requirements.
- ✓ Reduction of human error, increasing the quality of the whole process

TIME SAVING

- Recognition of the content of surgical kits
- Creation of detailed reports including check-list, number of instruments, comments and anomalies



RECOGNITION PHASE

The operator scans the barcode of the container. All the kit information is uploaded and key pieces of information are projected on the table. The instruments are placed on the table. The combined work of the cameras with algorithms allows recognition of all the instruments at once. Once the instruments are recognized, the traceability software is automatically updated and produces a report comprising a check-list and any possible irregularities (e.g., missing instruments, instruments not belonging to the current kit, etc).

HANDLING BIG SETS

The system is suitable for big sets (100+ instruments) that can be recognized in few steps.

EASY PICK-UP

The workstation can also include a projector to guide the operator during the recomposition of the kit by highlighting the instruments to pick up in the proper order directly on the packing table.



SIMPLIFIES COMPLEXITY

Suitable for complex and big surgical kits. Manages the complete inventory of the CSSD instruments



KIT REASSEMBLING

A visual and/or acoustic signal guides the operator through kit's reassembly. Following a predefined order, the instruments are illuminated by the projector and ready to be placed in the container. Once they are in the container, the system automatically lights up the next (group of) instrument(s), until all the tools are correctly positioned in the container, now ready for the sterilization.

KEY FEATURES

INTEGRATION

The system is integrated with SIXSTER hence it automatically communicates all kit information directly to the software

POSITION INDEPENDENT

The system recognizes all the instruments on the workstation at once, independently of their positions on the table. The recognition of the instruments is based only on physical parameters: shape, size, color, etc.



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