INTERVENTIONAL SYSTEMS’ MISSION IS TO BRING STATE-OF-THE-ART CLINICAL CARE INNOVATIONS TO ALLEVIATE PAIN AND EXTEND LIFE THROUGH THE APPLICATION OF SMART ROBOTIC TECHNOLOGY.

THE SMART ROBOTIC PLATFORM ALLOWS PHYSICIANS TO PERFORM TODAY’S IMAGE-GUIDED INTERVENTIONS WITH CONSISTENT PRECISION AND EFFICIENCY PLUS LESS CHANCE OF COMPLICATIONS.

OUR TECHNOLOGY SUPPORTS PERCUTANEOUS INTERVENTIONS FROM HEAD TO TOE LIKE TUMOR ABLATIONS (RF, IRE, CRYO, BRACHY), SOFT TISSUE AND BONE BIOPSY, DIRECT DRUG INJECTION, ENDOLEAK TREATMENT, SHUNT PLACEMENT, MARKER & GUIDE WIRE PLACEMENT AND OTHERS.
The iONE is a remote positioning and guidance system for image-guided interventions.

The system consists of a robotic micro-positioning unit for precise instrument positioning and a guidance and gross-positioning unit for adaptation of the robot unit to different treatment tables.

**UNIQUE KEY FEATURES**

- **ROBOTIC ALIGNMENT FROM SAFE DISTANCE VIA HANDHELD CONTROL UNIT:** Sub-millimetric alignment accuracy without hands in the beam
- **LOW PROFILE LIGHTWEIGHT ROBOT WITH DIRECT TABLE ATTACHMENT:** Instrument placement inside and outside the CT- or CB-CT gantry
- **PLASTIC ENDEFFECTOR WITH VARIOUS PLASTIC NEEDLE GUIDE INSERTS:** Artifact-free alignment and high precision instrument guidance
- **OPTIONAL SYSTEM UPGRADE WITH IONE NAVI+ PACKAGE:** State of the art 2D/3D planning and navigation tools
IN JUST 4 SIMPLE STEPS THE PROCEDURE IS COMPLETED

STEP 1: PATIENT STABILIZATION WITH IFIX – STERILE COVERING – GROSS POSITIONING OF ROBOT IN OPERATING FIELD

STEP 2: 2D/3D IMAGE ACQUISITION – 2D/3D PATH PLANNING – POSITIONING OF GANTRY IN NEEDLE ENTRY VIEW

STEP 3: MICRO-MANIPULATION FROM SAFE DISTANCE - PRECISION TOOL ALIGNMENT UNDER FLUORO-GUIDANCE

STEP 4: MANUAL INSTRUMENT POSITIONING – VERIFICATION ANY TIME BEFORE/DURING/AFTER TREATMENT.
OVERALL BENEFITS OF THE SMART ROBOTIC APPROACH

- **SAFE**
  - Simple, Intuitive
  - Less ionizing radiation exposure
  - Instrument verification anytime

- **Multi-purpose**
  - Guidance of various tools/instruments
  - Versatile in imaging: CT/CB-CT/m-C-arms (soon: MRI and US)

- **Robust**
  - Intervventional and surgical procedures
  - Designed for tomorrow’s SMART tools and miniaturized devices
  - Stable kinematics
  - Direct attachment to the table
  - Clinically dependable

- **Affordable**
  - Cost effective
  - Fast user training
  - Multiple applications

- **Trend-setting**
  - Instrument verification anytime
  - Fast alignment from safe distance with no hands in the X-ray beam

- **HIGHLY ACCURATE TOOL POSITIONING AND ONLY ONE STEP TO THE TARGET**

- **INCREASED SAFETY THROUGH PRECISION GUIDANCE INSIDE AND OUTSIDE THE GANTRY**

- **ROBOT ACTS LIKE A THIRD HAND AND HELPS TO OVERCOME TECHNICAL LIMITATIONS**

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