



VENUS

Intelligent Magnetic **Navigation** System Based on Multi-modal Medical **Fusion** Ultrasound

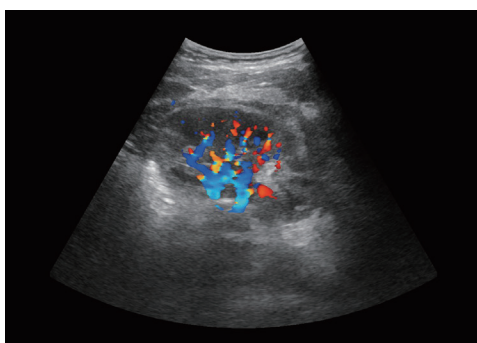
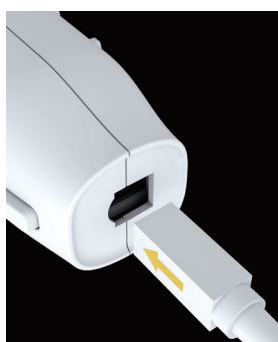
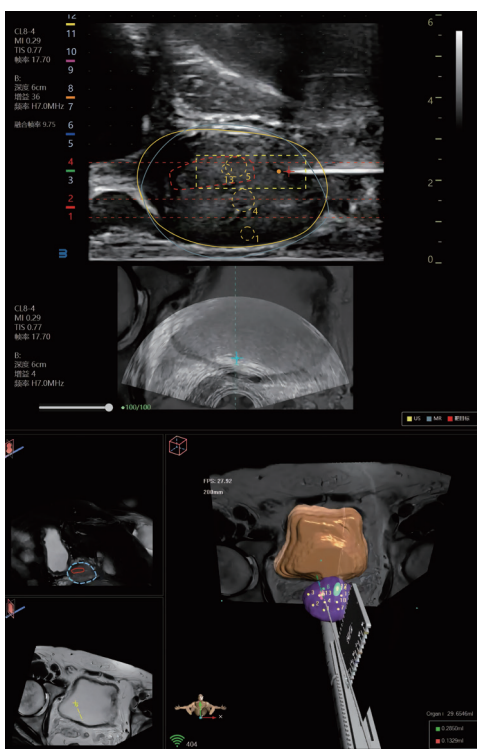
Diagnostic Ultrasound System Venus Ultimate-Uro
Non-Vascular Interventional Solution

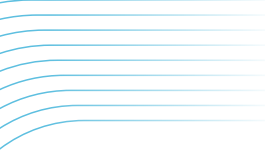


REDEFINE

Navigation & Fusion

Our solution features application-based real-time multi-modality image fusion, high speed 3D engine, efficient algorithms, and electromagnetic tracking, resulting in high-res anatomical structures and instruments being displayed within a virtual 3D environment for effortless navigation, precise access, short procedural duration, and less potential complications.





NON-VASCULAR INTERVENTION CHALLENGES

- How to avoid risks during puncture: bleeding, infection, unintended injury
- How to locate the lesion in real-time with high resolution
- How to avoid ionizing radiation of C-arm X-ray

ADVANTAGES

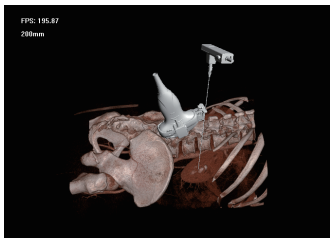
- Safer interventions through accurate MRI/CT (pre-op)-Ultrasound(in-op) fusion
- Real-time 3D navigation with probe and needle tracking for pathway planning
- 1-minute automatic multi-modal target-organ and ROIs segmentation and alignment
- ZERO (in-op) ionizing radiation for PCNL
- Enhance prostate biopsy positive-detection rate
- User-friendly organ-specific program (kidney, prostate, etc.)

CLINICAL APPLICATION

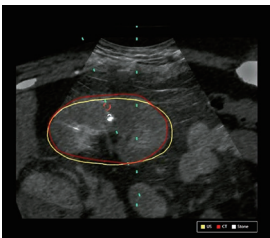
UROLOGY

Support treatments for kidney, prostate, bladder. Stone clearing, tumor biopsy/ablation, neuromodulation.

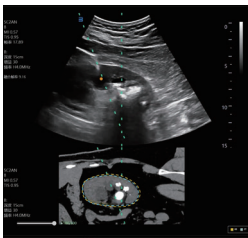
CT-Ultrasound Fusion in PCNL



3D CT reconstruction

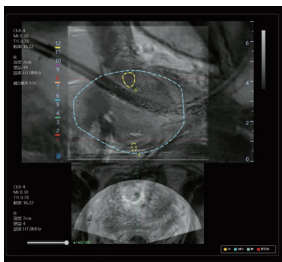


CT-Ultrasound
real-time fusion

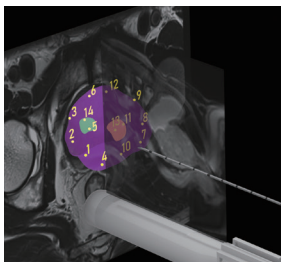


3D navigation and
tracking

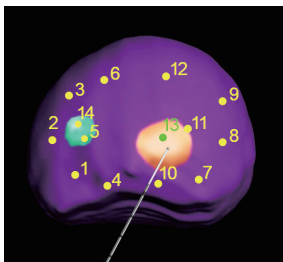
MRI-Ultrasound Fusion in Transperineal Prostate Biopsy



Bi-planar MRI-Ultrasound
real-time fusion



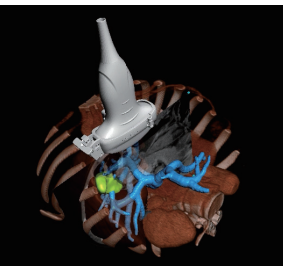
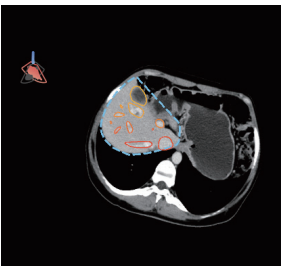
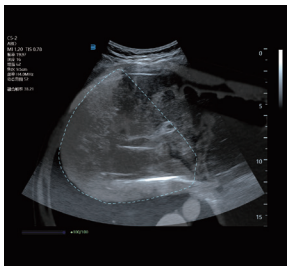
3D navigation and
tracking



Automatic visualization
of lesions and systematic
cores

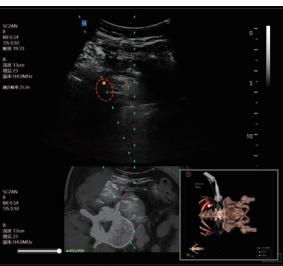
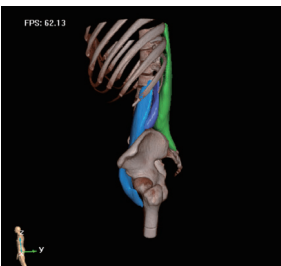
HEPATOLOGY

Liver tumor ablation, Ultrasound-guided ERCP, Pancreatic cancer biopsy.



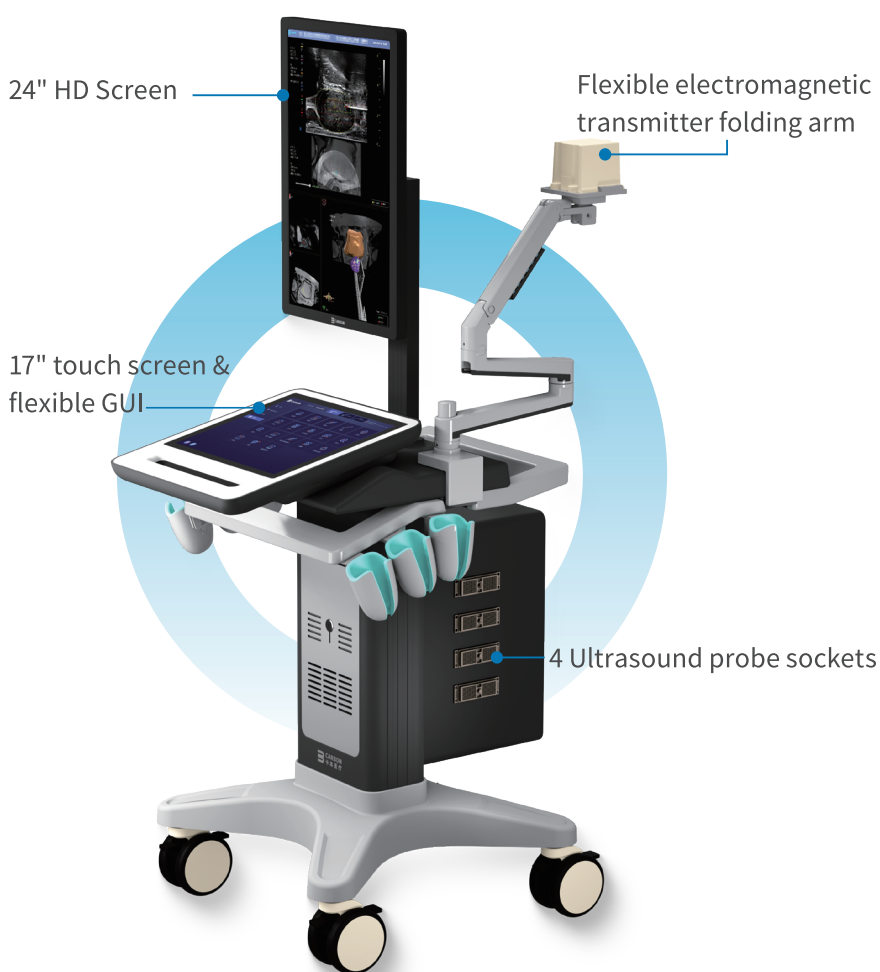
ANESTHESIOLOGY

Sacral nerve block, Lumbar nerve block, Precise navigation for central venous catheter and other procedures.



USER-FRIENDLY

- 24" HD screen & 17" touch screen panel
- User-friendly GUI and guided workflow
- Professional organ-specific program
- Flexible electromagnetic transmitter folding arm
- 4 Ultrasound probe sockets
- Fast magnetic sensor connecting



ABOUT CARBON

We focus on cutting-edge medical technology and innovation for non-vascular interventional solution. Our team includes talented professionals joining from worldwide well-known organizations and institutions.



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