

Endnotes:

- i: WHO, Health and care workforce Global strategy on human resources for health: workforce 2030
- ii: The Royal College of Radiologists (RCR), Clinical Radiology Workforce Census 2024
- iii: WHO health workforce support and safeguards list 2023
- iv: BMC Health Services Research (2024), Musculoskeletal disorders among sonographers: a systematic review and meta-analysis

Footnote for compliance: AI features provide clinical decision support and do not replace clinician judgment; availability varies by region/regulatory clearance.



VINNO Technology (Suzhou) Co., Ltd.

No. 65 Xinqing Road, Suzhou Industrial Park, 215123, Jiangsu, China
 Tel: +86 512 62873806
 Fax: +86 512 62873801
 E-Mail: vinno@vinno.com
 URL: www.vinno.com

VINNO reserves the right to make changes to product specifications at any time.



UltraSense AI Inside Ultrasound

8+ years in-house R&D | 3M+ cases | Full lineup

The Ultrasound Workload Gap — Why AI Now

Addressing the rising imaging demand meets a shrinking, ageing, and strained workforce worldwide



The Challenge

Hospitals and clinics are being asked to do more ultrasound with fewer experienced hands. Training pipelines can't keep pace, the workforce is ageing, and repetitive manual tasks contribute to high rates of operator injury—driving variability, repeat scans, and longer waits

11.1M

Global health-worker shortfall by 2030ⁱ

39%

Forecast shortfall of clinical radiology consultants by 2029ⁱⁱ

40%

Physicians aged 55+ in 12 EU countries in 2022ⁱⁱⁱ

75.8%

Prevalence of work-related musculoskeletal disorders among sonographers in 2024^{iv}



The answer

An expert-level second check—without the wait

Precision



Detect. Classify. Trust.

Accurate finding detection and standardized classification, with traceable measurements.

Speed



One-tap measurements. Done.

Automated calculations and auto-populated reports shorten the scan-to-report path.

Consistency



Expert-like results. Every time.

Guided standard views and AI quality checks deliver reproducible outputs across users.



Clinicians

- Faster, more accurate exams
- Increased diagnostic confidence
- Less repetitive strain; smoother workflow



Patients

- Shorter exam times
- Fewer unnecessary procedures
- Earlier clearer answers



Hospitals & Clinics

- Higher throughput; shorter turnaround time
- Fewer unnecessary referrals
- Consistent quality across staff/sites

ULTRASENSE

Why UltraSense?

From Multi-center data to expert-grade decisions

From Data to Bedside Decisions

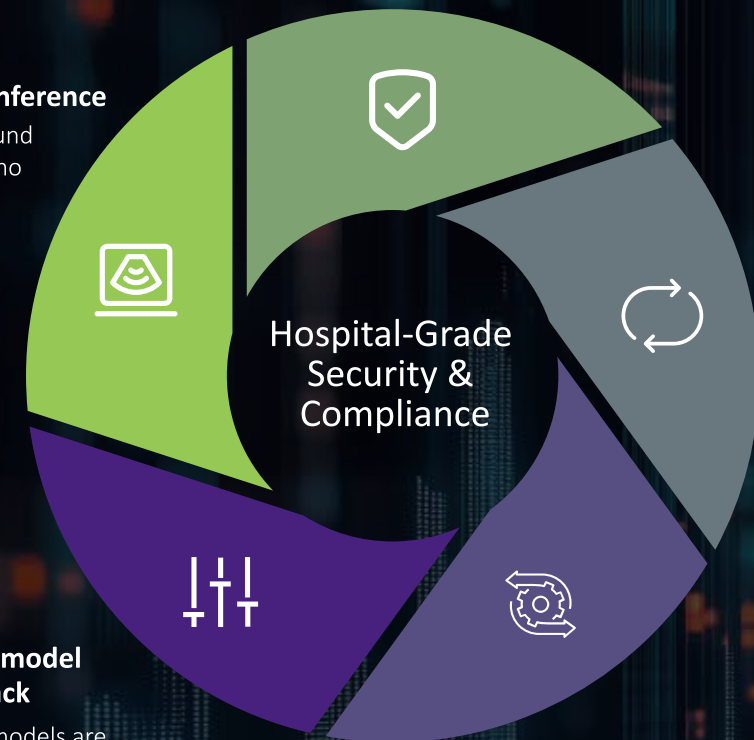


Private / Hybrid deployment

Deploy fully on-prem or in a secure hybrid setup to meet IT policies.

On-device / Edge inference

AI runs on the ultrasound or hospital network—no images leave the site.



Clinical Impact

≥90% Agreement With Expert Readers*
Expert-Like Consistency

70% Faster Ob Measurements*
Fewer Taps From Scan To Report

6× Faster Vs. Manual Using Auto Ef*
Rapid Cardiac Quantification

94% Sensitivity In Breast Cancer Detection (Vs. 92% Expert)*
Specialist-Grade Accuracy

* Internal validation and select clinical studies; performance may vary by site.

UltraSense Intelligent Solutions

From 3M+ de-identified cases to expert-grade decisions

UltraSense platform unifies multi-scenario ultrasound AI — detect, measure, classify and report with just a few steps.

8+ years in-house R&D

3M+ cases

Full lineup

Confident Diagnosis in Real-time



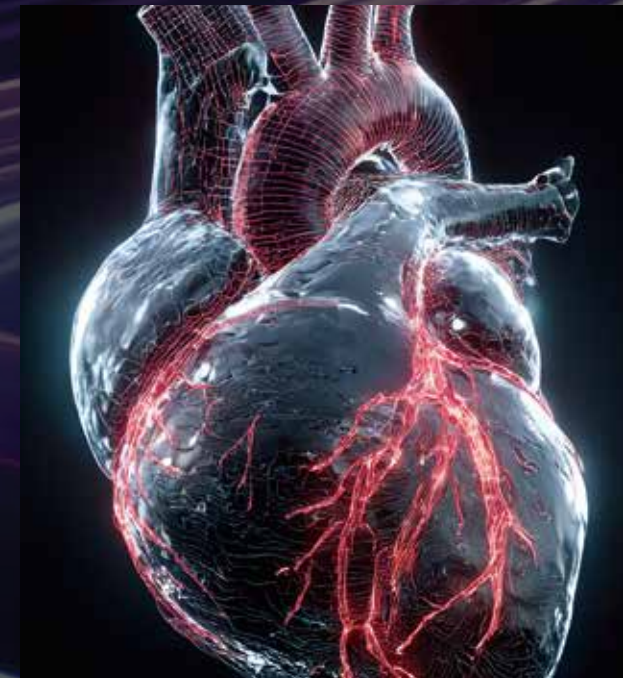
Radiology

- VAid Breast
- VAid Thyroid
- VAid Liver
- VAid HRI
- VAid GB



Women & Neonates' Health

- Auto En.
- VAim Follicle
- VMind OB
- VAim OB
- VAim AFI
- VAim Hip
- VAim Pelvic



Cardiovascular

- VAid Carotid Plaque
- Live IMT
- Live Track
- Auto EF
- Live EF
- Auto LV Study
- vCQ



Point-of-Care (POCUS)

- Auto Needle Enhancement
- VAid IVC
- VAid VTI
- Auto Flow Volume
- Auto Pleural
- Auto B-Line
- Auto DPF



Radiology UltraSense VAid Suite

From scan to report: detect • measure • classify • populate

What it does best

- ⌚ **Real-time assistance** — Live detection with auto measurements
- 📏 **Standardized classification** — TI-/BI-RADS™ reference
- 🕒 **One-click quantitation** — lesion characterization

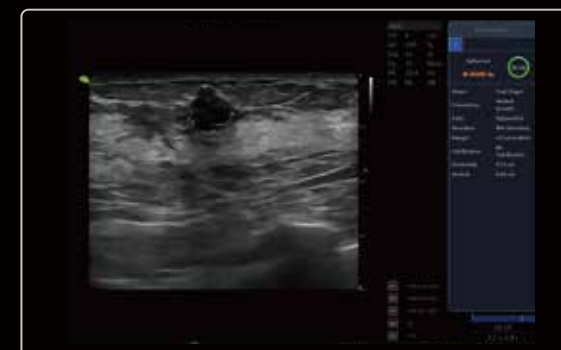
Why it matters

94% **Breast sensitivity***
Specialist-grade cancer
detection (vs 92% expert)

~2s **Risk assessment***
BI-/TI-RADS scoring
enables faster decisions

≥90% **Expert agreement***
Expert-like consistency
across readers

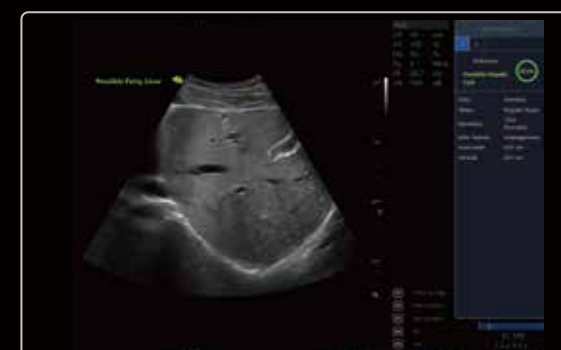
Fewer benign biopsies*
AI-assisted thyroid reading reduces
unnecessary procedures



VAid Breast — AI-powered breast diagnosis with real-time lesion detection, measurement, and BI-RADS™ risk assessment in 2 seconds.



VAid Thyroid — Real-time nodule detection and TI-RADS™ assessment with AI-driven risk stratification, reducing unnecessary biopsies.



VAid Liver — Real-time detects common focal and diffuse liver conditions with one click, displaying quantitative analysis and enhancing diagnostic accuracy.



VAid HRI — One click to quantify liver steatosis by comparing liver and renal cortex echogenicity, providing automated measurements and Hepa to Renal Index (Li/RC) calculation.



VAid GB — Automatic measurement of gallbladder lesions in real-time or static mode, improving diagnosis and boosting confidence.

* Internal validation and select clinical studies; performance may vary by site.



Women & Neonates' Health UltraSense VMind/VAim Suite

From scan to report: guide • measure • standardize

What it does best

- 🕒 **Real-time screening** — Standard-plane recognition aligned with ISUOG
- 👉 **One-tap measurements** — fast and consistent
- 📋 **Workflow & reporting** — Auto-populate and structured OB/GYN reports

Why it matters

70% faster OB measurements*
Fewer taps from scan to report

1 tap quantitation
reduces re-scans and user variation

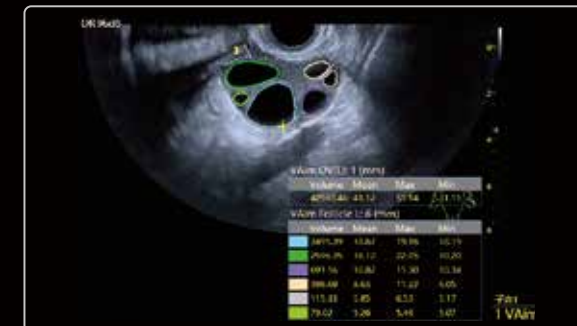
Consistent, guideline-based outputs
Improve reproducibility

*Internal validation and select clinical studies; performance may vary by site.

Gynecological Assessment



Auto En. — AI-driven endometrial thickness measurement for faster, more accurate evaluations and reduced scan time.



VAim Follicle — One-touch automatic measurement and visualization of ovarian follicles.

Early & Mid Pregnancy Screening

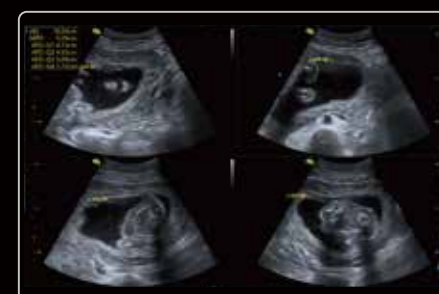


VMind OB — AI obstetric screening auto-captures 31 ISUOG standard planes with real-time biometrics.



VAim OB — One-touch automatic recognition and measurement of fetal biometry of BPD, OFD, HC, AC, FL, HL)

Mid & Late Pregnancy Monitoring

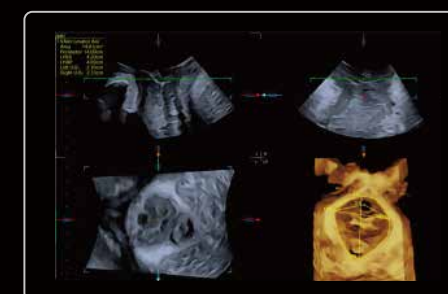


VAim AFI — Automated Amniotic Fluid Index measurement improves efficiency, accuracy, and reliability in fetal health monitoring.



VAim Hip — One-touch neonatal hip assessment with alpha/beta angle measurement and Graf classification for early detection of hip dysplasia.

Postpartum & Pelvic Evaluation



VAim Pelvic (2D&3D) — Automatic measurement of levator ani and urethral dimensions for enhanced postpartum pelvic assessment.



Cardiovascular UltraSense CV Suite

From scan to report: detect • track • quantify

What it does best

- Real-time detection** — Zero-click detection; one-touch imaging with auto-tracking and Color/Spectral Doppler auto-optimization.
- Real-time calculation** — Live calculates EF with no ECG needed
- ASE/WASE-based LV quant** — instant $\uparrow/\downarrow$ flags for out-of-range values

Why it matters

6× Faster Ef Vs. Manual*
Rapid Cardiac Quantification

1 Tap Color/Spectral Setup
Faster Vascular Workflow

Faster decision

Instant $\uparrow/\downarrow$ flags against ASE/WASE ranges

*Internal validation; performance may vary by site.

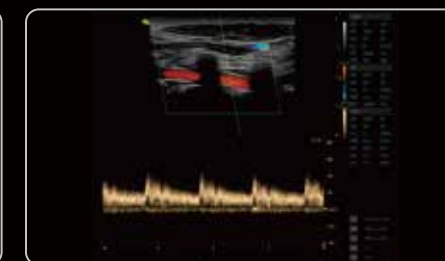
Vascular Assessment



VAid Carotid Plaque — Real-time detection with automated identification and measurement of carotid plaques and IMT, supporting better stroke-risk assessment and prevention.

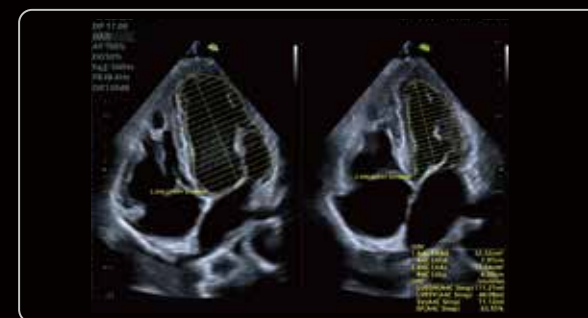


Live IMT — On-scan, automatic intima-media thickness measurement with smart edge tracking and report-ready values.



Live Track — One-touch vascular imaging with auto-tracking and automatic optimization of Color and Spectral Doppler.

Cardiac Function Assessment



Auto EF — One-click ejection fraction for rapid, reproducible cardiac function.



Live EF — AI-enabled tool that continuously calculates real-time ejection fraction during live scanning in apical 4CH/2CH views, without requiring ECG.

Comprehensive LV & Standardized Quantification



Auto LV Study (2D) — AI-powered automatic detection and tracking of left ventricular structures with one-click analysis of multiple cardiac parameters.



Cardiac Quantification Assisting Tool (vCQ) — cardiac measurements referencing ASE_2015 and WASE_2020, with arrow indicators showing above/below normal values for more accurate and confident interpretation.



Point-of-Care UltraSense Bedside Suite

From bedside to decision: guide • monitor • act

What it does best

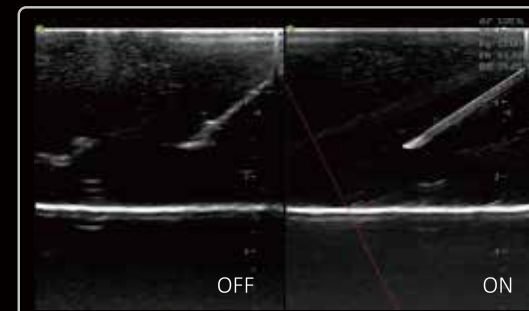
- 🔍 **Procedural guidance** — for clearer needles and safer guidance
- ⌚ **Rapid hemodynamics** — for dialysis access and vascular planning.
- 🫁 **Lung & respiratory support** — for PTX/effusion triage and extubation readi-

Why it matters

- **Faster time to positive findings** — auto detection surfaces critical signs sooner
- **Higher first-pass success** — safer puncture/line placement.
- **Shorter time to competency** — guided workflows and one-tap quant reduce the training curve



Procedural Guidance



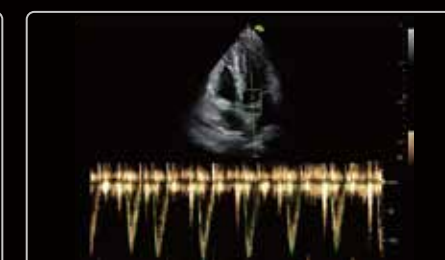
Auto Needle Enhancement — Real-time detection of needle position and orientation with automatic beam adjustment, improving visualization, accuracy, and safety of needle-based procedures.



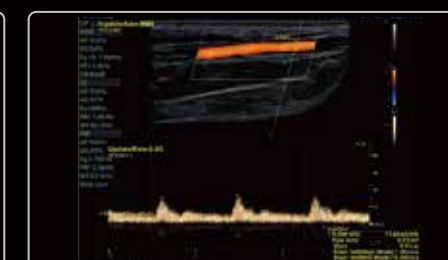
Hemodynamic & Volume Status



VAid IVC — Automatic tracing of IVC diameter and calculation of CI/DI for fast, reliable blood volume status assessment, reducing manual errors and saving time.



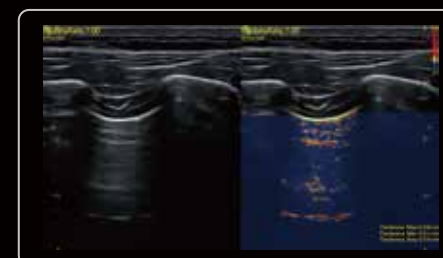
VAid VTI — AI-assisted identification of Doppler sample volume with automatic tracing of VTI, providing accurate cardiac output evaluation and real-time monitoring of heart function.



Auto Flow Volume — One-click calculation of blood flow volume across a vessel cross-section, enabling dialysis evaluation and vascular treatment planning with improved efficiency.



Lung & Respiratory Assessment



Auto Pleural — Automatic detection and color marking of pleural lines to support rapid diagnosis of pneumothorax or effusions, enhancing emergency efficiency.



Auto B-Line — Real-time detection and scoring of B-lines with automatic quantification and color-coded quality indicators, supporting lung ultrasound evaluation in critical care.



Auto DPF (Diaphragm Function) — Automated measurement of diaphragmatic excursion and thickening ratio for accurate assessment of diaphragm function and ventilator weaning readiness.

Full Lineup — UltraSense Inside

From carts to portables, every system ships with UltraSense.

We focus on your workflow, so you can focus on patients.

From cart-based to portable, every system runs UltraSense on-device—real-time detection, one-tap quantification, and structured reports. Fewer clicks, less chaos—and more time for patient care.

