



# Elevating Ultrasound Efficiency with Lucid Vision

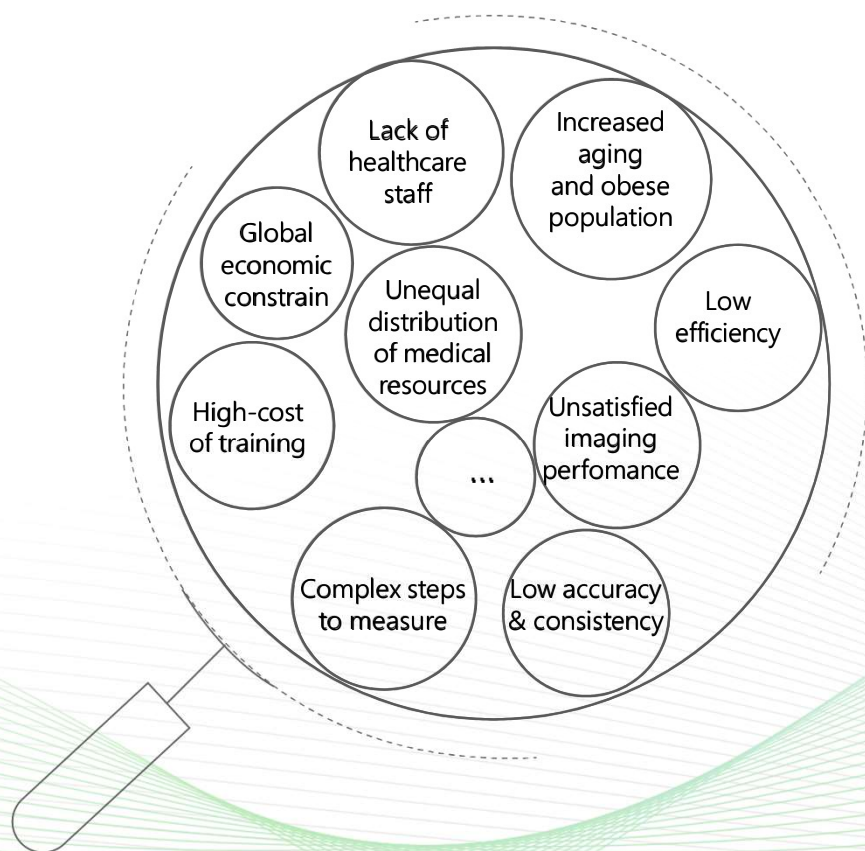
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**VLucid<sup>+</sup>**



**ULTRASENSE**



# Challenges and Demands in Ultrasound



Powerful performance on every patient

Productivity at affordable Cost

Easy to use and Efficient all-rounder

# Milestones of Platform Innovations



2010  
VINNO  
Foundation



2020  
G86  
VLucid  
Platform

VINNO<sup>R700</sup>



2023  
Powered by  
VLucid<sup>+</sup>



2014  
E35  
RF Platform  
(World's 1<sup>st</sup>)



2022  
Ultimus 9E  
MUSE Platform  
(China 1<sup>st</sup>)

# VINNO R700



## Exceptional Imaging Technology

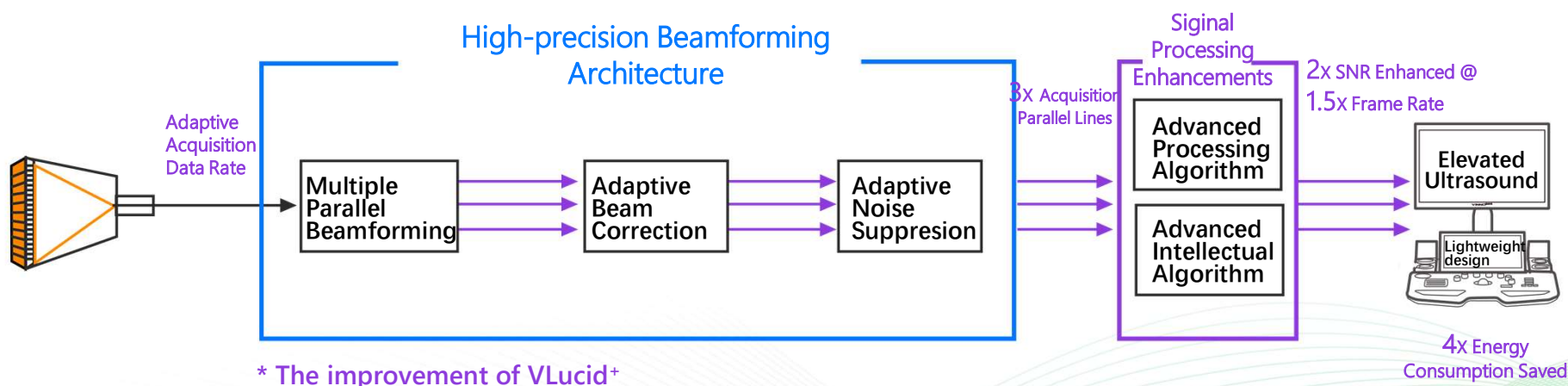
Powered by the NEW innovative VLucid+ Architecture



ULTRASENSE



# Clarified Vision powered by VLucid<sup>+</sup>



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**VLucid<sup>+</sup>**

**ULTRASENSE**

# VINNO R700

Elevating Ultrasound Efficiency *with* Lucid Vision



Powered by  
**VLucid<sup>+</sup>**



**ULTRASENSE**

- Exceptional Imaging Technologies
- Efficient Imaging Solutions
- Elevated Productivity
- Ergonomics for Effortless Comfort



# Advanced processing algorithm

Sophisticated 2D & Color Image Processing



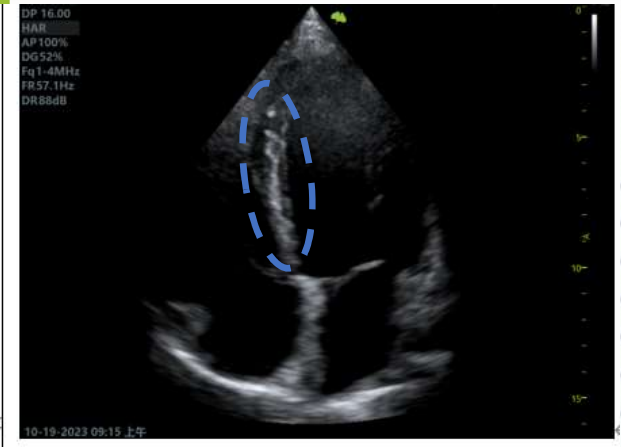
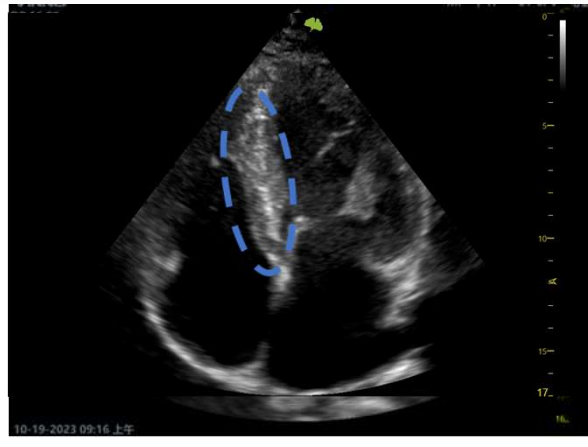
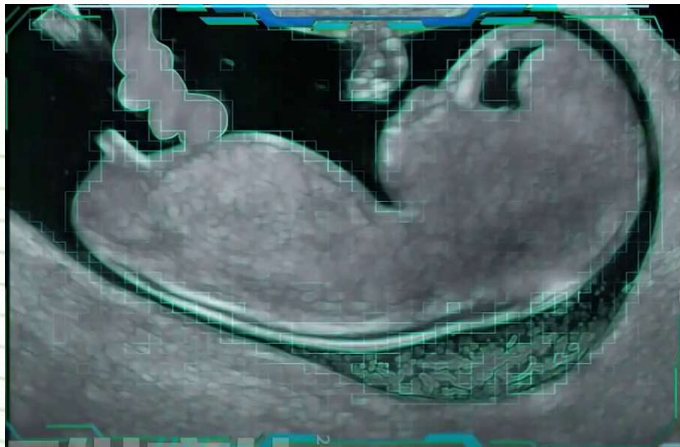
# Real-time Adaptive De-noising [RAD]



- Effectively suppress noise/speckle artifact
- Sharpens the tissue interfaces/contours
- Enhances the contrast resolution



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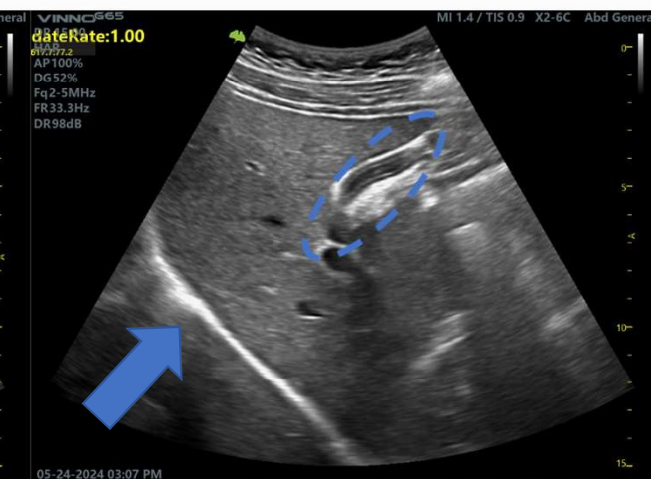
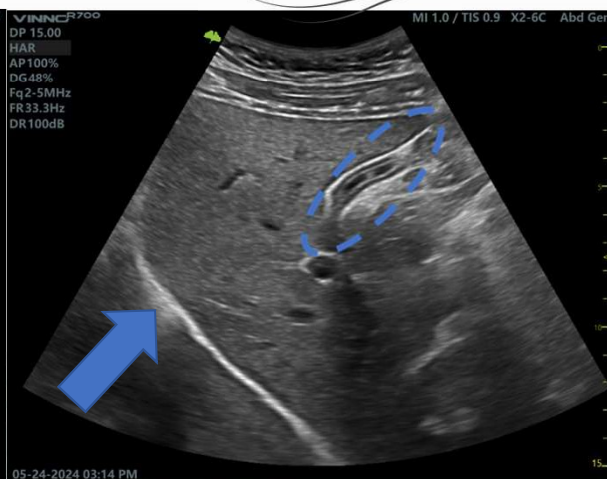
# Dynamic Signal Enhancement (DSE)

- Improves both penetration and lateral resolution, delivering detail with extraordinary clarity

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VLucid

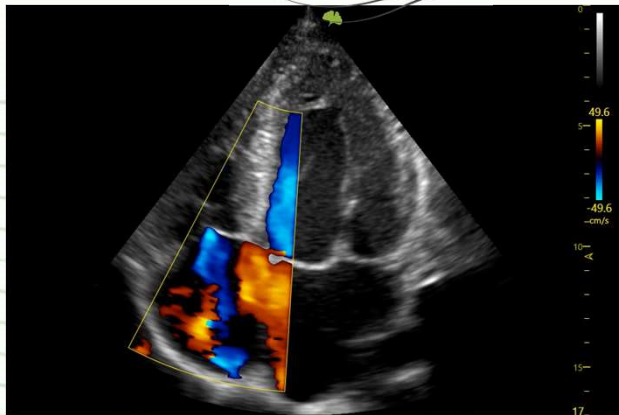


# Doppler Vector Projection (DVP)

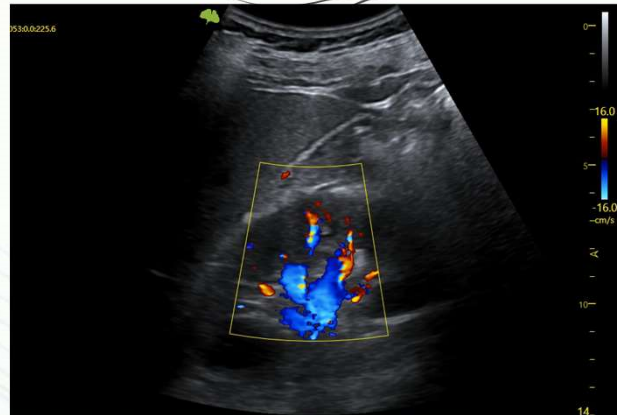
Innovative Color Doppler signal processing that differentiates the 3 dimensional nature of blood flow, projects it on 2 dimensional display; amplifying the hemodynamics

- Greater sensitivity to blood flow detection
- More accurate detection and display of blood flow
- Efficiently amplifies the hemodynamics

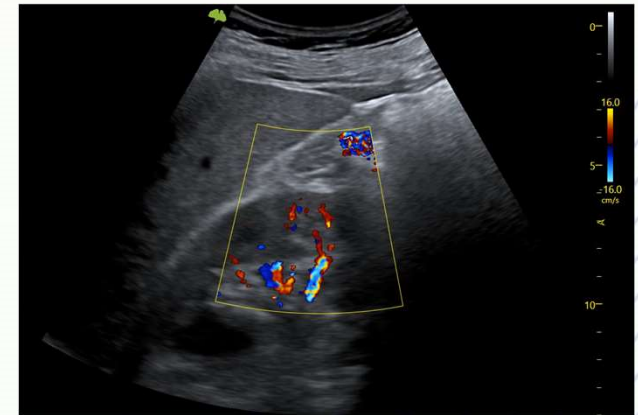
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# PureWave Single Crystal | Xcen Transducer Technology

PureWave (Single Crystal) & Xcen Probe Technologies offer :

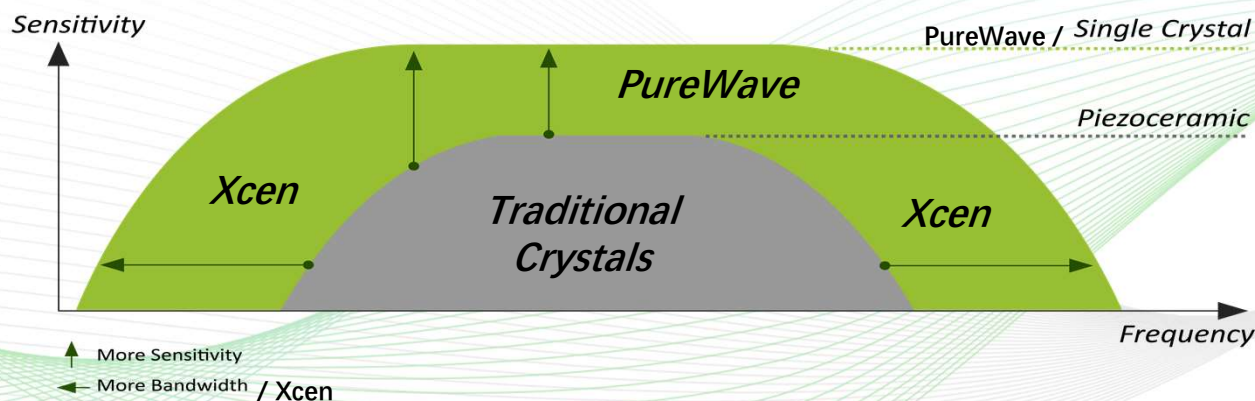


**PureWave Single Crystal Technology Advantages:**

- Enhanced Conversion Efficiency: Optimizes the transmission and reception of ultrasound signals, ensuring superior image quality with minimal signal loss.
- Improved Axial Resolution: Allows for the visualization of fine anatomical details, resulting in more accurate diagnostic assessment.
- Increased Deep Tissue Sensitivity: Provides clearer and more detailed imaging of deeper anatomical structures without compromising penetration or contrast.

**Xcen Probe Technology:**

- Broadband **Xcen** Frequency Design: Supports a wide frequency range to deliver both high-resolution superficial imaging and deeper penetration as needed.
- **PureWave** Crystal Integration: Ensures consistent high-resolution imaging performance across clinical applications.
- **Universal Xcen Probe Connector**: A unique, high-precision connector system compatible with multiple VINNO ultrasound platforms, allowing flexible probe use across different models.



# Covering Wide Range of Clinical Needs

Whole body coverage



1MHz

23MHz

## Abdomen

- S1-8CM <sup>Xcen probe</sup> PureWave (Single crystal)
- X2-6C <sup>Xcen probe</sup> PureWave (Single crystal)
- F2-5C
- S1-9C <sup>Xcen probe</sup> PureWave (Single crystal)

## Cardio

- S1-6P <sup>Xcen probe</sup> PureWave (Single crystal)
- G1-4P
- G3-10PX <sup>Matrix probe</sup>
- G4-12P
- E3-8T <sup>TEE probe</sup>

## SMP

- U5-15LE <sup>Matrix probe</sup> PureWave (Single crystal)
- X4-12L <sup>Xcen probe</sup> PureWave (Single crystal)
- X6-16L <sup>Xcen probe</sup> PureWave (Single crystal)
- X3-10L <sup>Xcen probe</sup> PureWave (Single crystal)
- X10-23L <sup>Xcen probe</sup> PureWave (Single crystal)
- I7-18L

## OB/GYN

- S1-8CM <sup>Xcen probe</sup> PureWave (Single crystal)
- D2-6C
- X2-6C <sup>Xcen probe</sup> PureWave (Single crystal)
- S1-9C <sup>Xcen probe</sup> PureWave (Single crystal)

## MSK

- X6-16L <sup>Xcen probe</sup> PureWave (Single crystal)
- U5-15LE <sup>Matrix probe</sup> PureWave (Single crystal)
- X4-12L <sup>Xcen probe</sup> PureWave (Single crystal)
- X3-10L <sup>Xcen probe</sup> PureWave (Single crystal)
- X10-23L <sup>Xcen probe</sup> PureWave (Single crystal)
- X9-22L <sup>Xcen probe</sup> PureWave (Single crystal)
- I7-18L

## Pediatrics

- G4-9M
- G3-9M
- G3-10PX <sup>Matrix probe</sup>
- X4-12L <sup>Xcen probe</sup> PureWave (Single crystal)
- X6-16L <sup>Xcen probe</sup> PureWave (Single crystal)
- G4-12P

## Urology

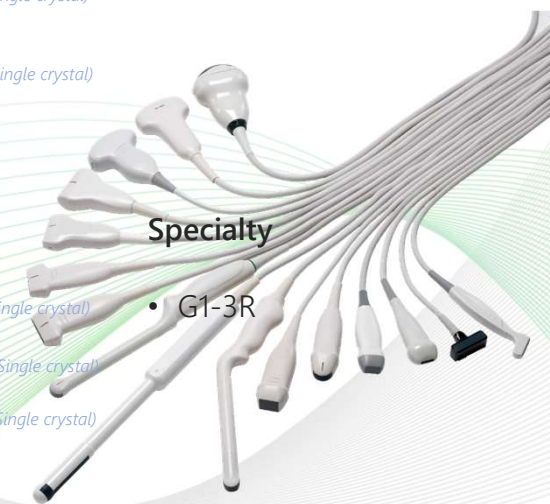
- BP4-9 <sup>Bi-plane probe</sup> PureWave (Single crystal)
- S1-8CM <sup>Xcen probe</sup> PureWave (Single crystal)
- X2-6C <sup>Xcen probe</sup> PureWave (Single crystal)

## Intervention

- X2-6C <sup>Xcen probe</sup> PureWave (Single crystal)
- X4-12L <sup>Xcen probe</sup> PureWave (Single crystal)
- X6-16L <sup>Xcen probe</sup> PureWave (Single crystal)

## Specialty

- G1-3R



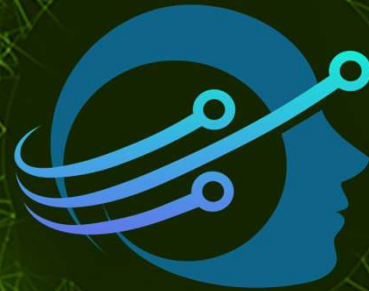


# Efficient Imaging Solutions

Efficiency Enhanced through Intelligent Solutions



# Advanced Intelligence for Efficient Assessment



**ULTRASENSE**

# ULTRASENSE Intelligent Solutions

“Full-stack, Real-time, Superb-confidence”



**ULTRASENSE**  
Confident diagnosis in real-time

## General Imaging

- VAim Hip
- VAid Thyroid
- VAid Liver
- VAid GB
- VAid HRI
- Auto B-Line



## Cardiovascular

- Auto EF
- Live IMT
- VAid carotid plaque
- Live Track
- VAid IVC
- VAid VTI



## Women's Healthcare

- VAid Breast
- VAim Follicle
- VAim Pelvic
- VAim OB
- VMind OB
- VAim AFI
- Auto En.

# Comprehensive Imaging Solutions



## General Imaging

- VFlow
- VLuminous Flow
- VShear
- CBI
- VAim Hip
- VAid Thyroid
- VAid Breast
- VAid Liver
- VAid\_HRI
- VAid GB.
- VAid IVC
- VAid B-Line



## Women Healthcare

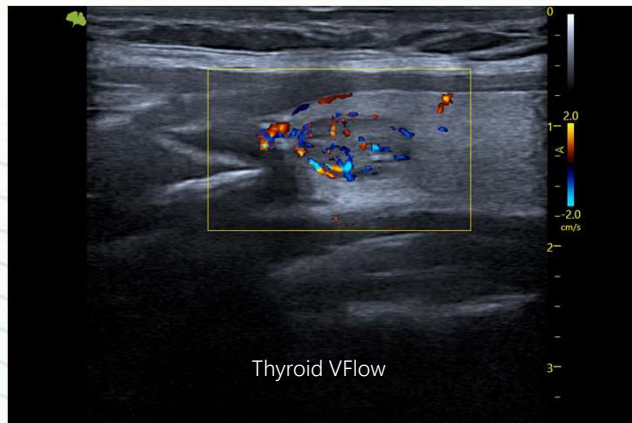
- VFlow
- VLuminous flow
- HQ Surface, HQ Grad & HQ Silhouette
- VAim Follicle, VAim OB, VAim Pelvic
- VAid Breast
- VMind OB
- VAim\_AFI
- Auto En.



## Cardiovascular

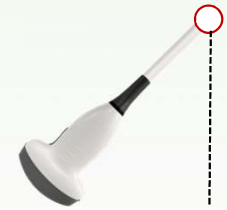
- Multi Doppler
- Auto EF
- Strain Imaging
- AMAS, PWV
- Stress Echo
- VAid Carotid Plaque
- Live Track

# General Imaging Solutions



**S1-8CM**

Abdomen, OB/GYN,  
Urology,  
Better resolution and  
penetration



**X2-6C**

OB/GYN, Abdomen,  
Urology,  
Balanced penetration  
and resolution



**X4-12L**

Vascular, Small parts  
Balanced penetration  
and resolution



**U5-15LE**

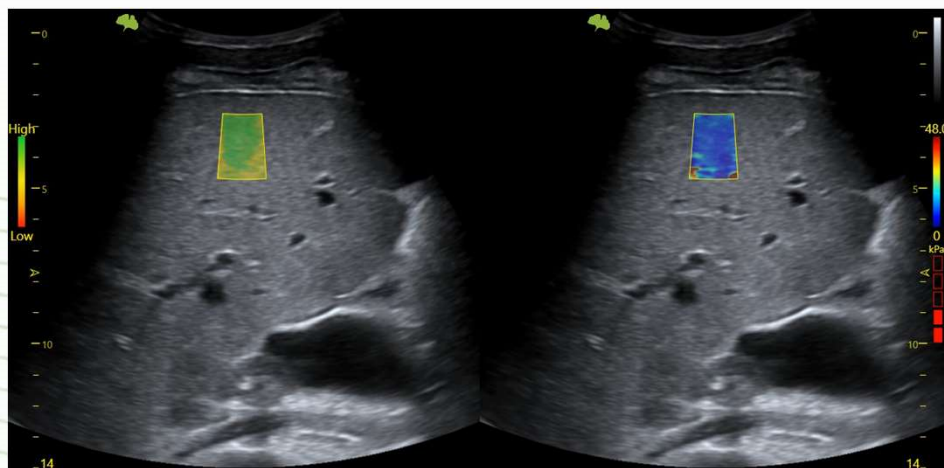
Small parts, especially for  
breast, vascular  
Higher resolution and  
broader scanning field

# General Imaging Solution

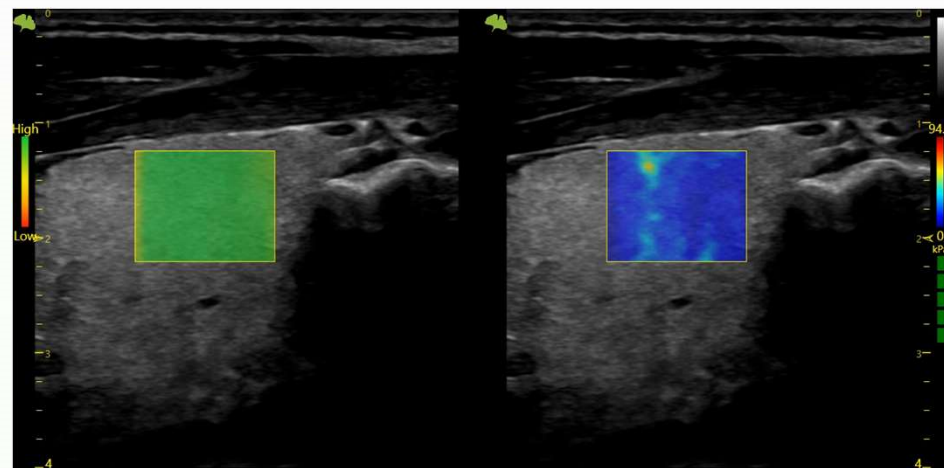


## Shearwave imaging – VShear

A non-invasive assessment of tissue stiffness in various applications. The color-coded elastogram, quantitative measurements, and user-selectable ROI functions are especially useful for accurate diagnosis of Breast, Liver, MSK, Thyroid and Prostate diseases.



Liver

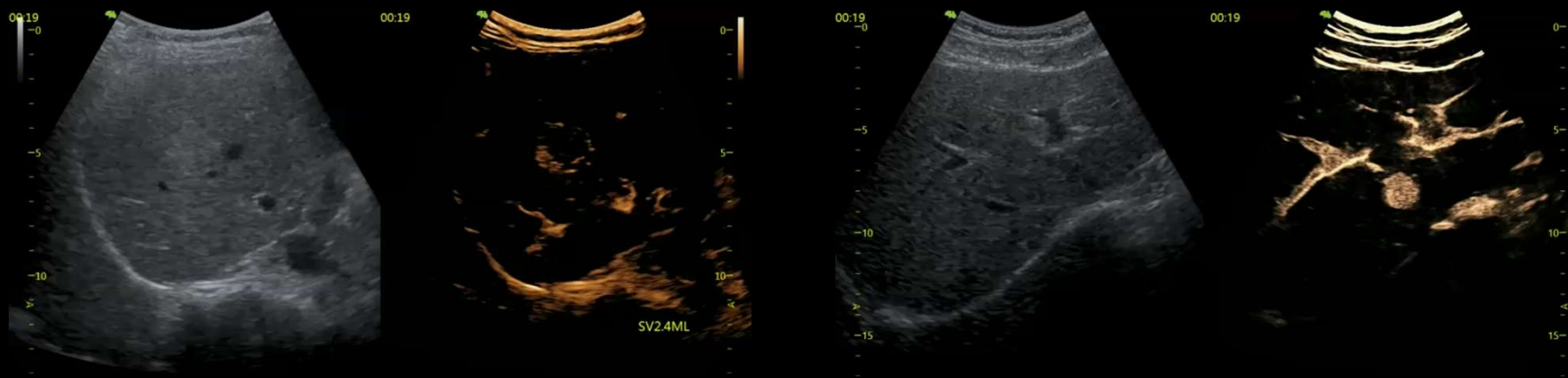


Thyroid

# General Imaging Solution

## Contrast-enhanced ultrasound – CBI (Contrast Bubble Imaging)

CEUS provides real-time assessment of blood flow and enhances diagnostic accuracy, aiding in the characterization of lesions, evaluation of organ perfusion, and guiding interventions



Hepato Cellular Carcinoma



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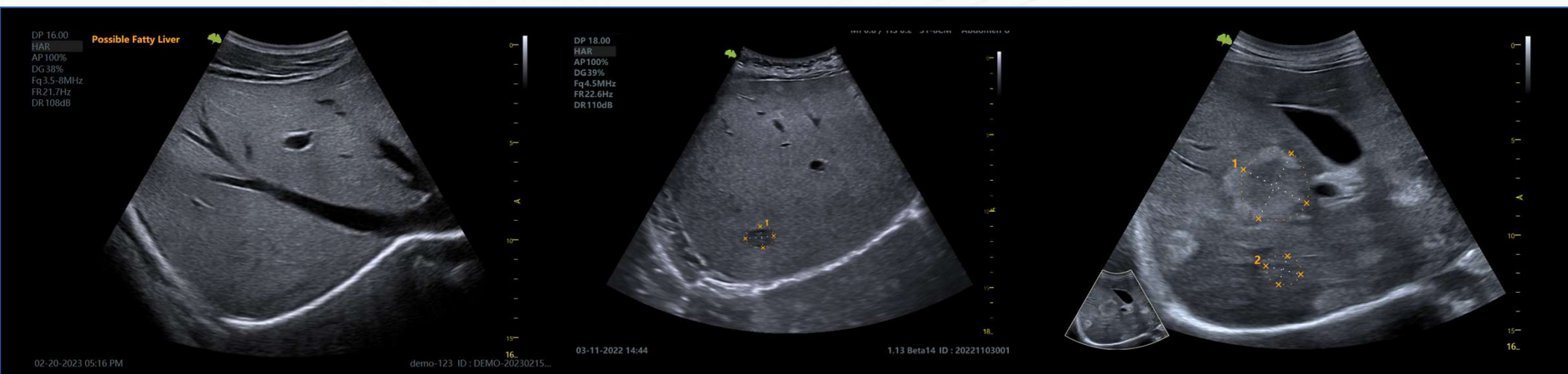
# General Imaging Solution

Advanced Intelligence for Efficient Assessment

EXCLUSIVE

VAid Liver

An automatic detection of focal and diffuse diseases of liver in real-time or on stored images and displays quantitative analysis of the lesion



## Diffuse Lesion indication

- ✓ Polycystic liver disease
- ✓ Fatty liver
- ✓ Liver cirrhosis

## Focal Lesion indication

- ✓ Hepatic hyperechoic lesion
- ✓ Hepatic hemangioma
- ✓ Hepatic cyst
- ✓ Liver cancer

## Benefits

- Automated and real-time detection of liver lesions avoids missed-diagnosis
- Auto-indication of liver diseases with 7 liver pathologies provides you with diagnostic confidence
- Streamline workflow and quantification analysis significantly enhances your efficiency



# General Imaging Solution

## Advanced Intelligence for Efficient Assessment

### VAid Thyroid

Thyroid nodule are detected in real-time or on stored images, together with TI-RADS categorization and reporting tool, make clinical routine of thyroid ultrasound more accurate and productive



#### Benefits

- Streamlined automatic and real-time workflow provides more effective thyroid scanning
- Auto-detection of lesions avoids missed-diagnosis
- TI-RADS analysis enables more comprehensive and accurate nodule classification to improve diagnostic accuracy



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# General Imaging Solution

## Intelligent Evaluation of Fatty Liver

### VAid HRI

One-click process to quantify liver steatosis by comparing echogenicity of liver parenchyma to renal cortex. Automated liver and renal cortex recognition and position two ROIs to calculate Hepa to Renal Index (Li/RC).

The screenshot displays the VAid HRI software interface. On the left, an ultrasound image shows a liver section with two yellow boxes labeled 'Li' and 'RC' indicating regions of interest. The top right panel shows the 'VAid' logo and a 'Liver - Analysis' toggle switch. Below this are buttons for 'Real-time Analysis', 'Lesion Analysis', 'HRI', and 'Edit'. A central panel displays the 'VAid Analysis' results, including a 'Reference' section with 'HRI' and a value of 1.57. Below this, specific analysis parameters are listed: 'Li m-Gray Level: 132', 'Li ROI Depth: 7.39cm', 'RC m-Gray Level: 84', and 'RC ROI Depth: 7.85cm'. The bottom of the screen shows technical details like 'MI -- 51-8CM', 'TI -- Abd Pen', and 'FactoryDefault:1.0.0'.

VAid Analysis	
Reference	
<b>HRI</b>	1.57
Li m-Gray Level:	132
Li ROI Depth:	7.39cm
RC m-Gray Level:	84
RC ROI Depth:	7.85cm

- Streamlined automatic and real-time workflow provides more effective thyroid scanning
- Auto-detection of lesions avoids missed-diagnosis
- TI-RADS analysis enables more comprehensive and accurate nodule classification to improve diagnostic accuracy





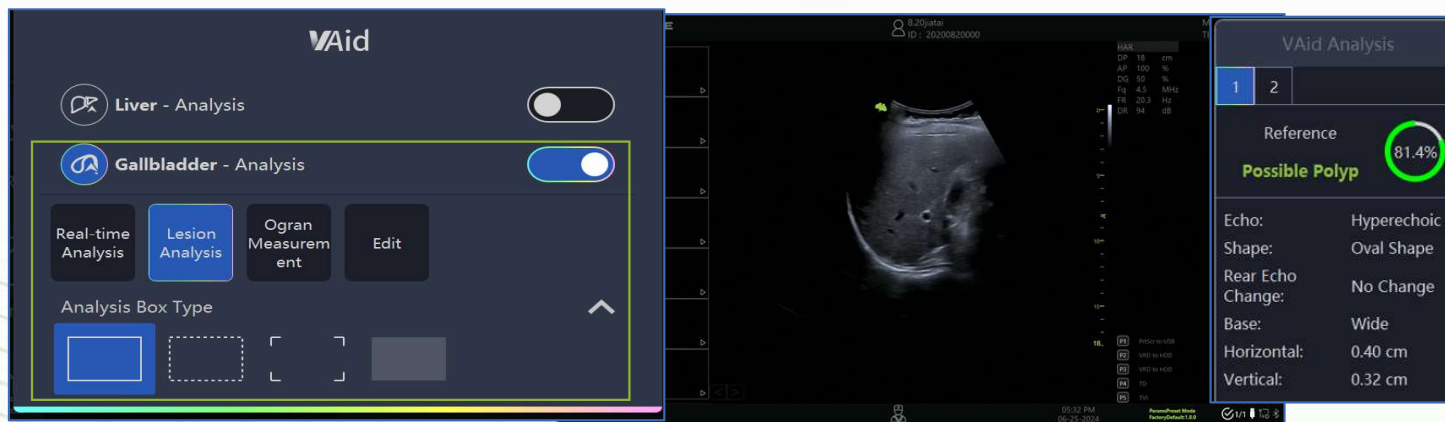
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# General Imaging Solution

## Intelligent evaluation of Gall Bladder

### VAid GB

Real-time or static detect and measure the lesion, along with the quality control circle to enhance diagnostic accuracy. VAid GB provides physicians decision support in diagnosing common focal and diffuse thickening, polyp and stone diseases of the gall bladder, significantly improves efficiency and diagnostic confidence.



Real-time detection & Static detection

Real-time lesion detection with ROI highlights

Static detection automatic outlines lesion boundaries and provide description (e.g. property of lesion, the detection accuracy and the size)





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# General Imaging Solution

Intelligent evaluation of **inferior vena cava**

## VAid IVC

Automatically traces the IVC diameter change and calculates the CI (Collapsibility Index) or DI (Dispensability Index) and the IVC variation. It helps for volume status assessment.



An important indicator for evaluating blood volume status, which reflects the amount of blood in the vasculature  
Provides quick and reliable measurements in real-time, helping clinicians make more informed and accurate decisions  
Auto-calculation of the CI and DI, frees clinicians from manual mistakes and time





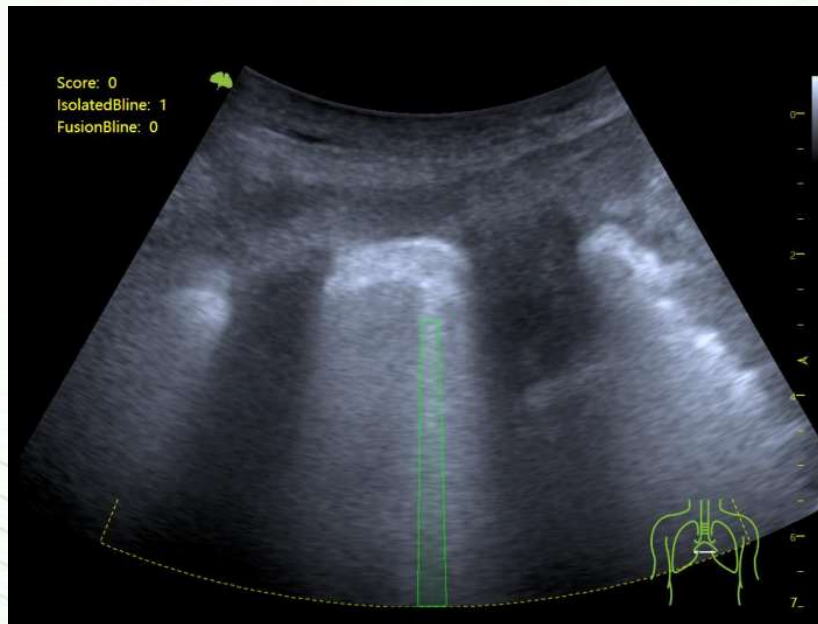
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# General Imaging Solution

## Intelligent evaluation of Lung

### Auto B-Line

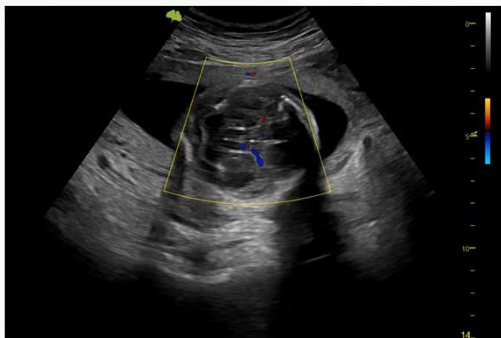
The system detects and automatically identifies the position of the B-Line in real time



The image quality can be distinguished with dotted interesting boxes with different colors: green (good), yellow (middle), red (poor). The system automatically displays the number of discrete B-line fusion B-line, and score value. The system always displays the maximum score, when click the freeze button, system will automatically jump to the frame with maximum score.



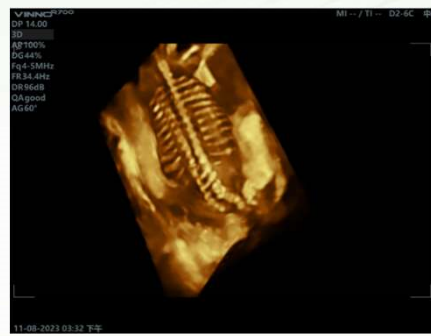
# Women Healthcare Solutions



Fetal Brain



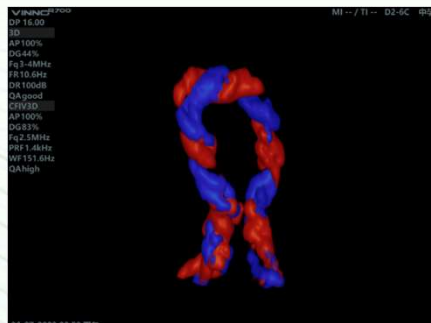
Fetal Face



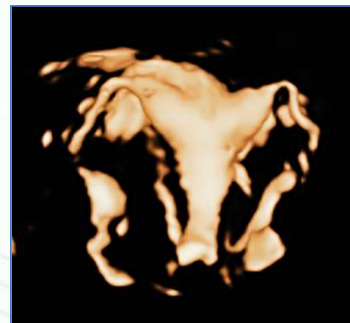
Fetal Spine



Light Lab



Umbilical cord Color 3D



Uterus



D2-6C  
Abdomen, OB/GYN,  
Urology



S1-8CM  
Abdomen, OB/GYN,  
Urology



X3-10L  
Early pregnancy, Musculoskeletal,  
Peripheral Vascular



G4-9E  
OB/GYN, Urology

# Women Healthcare Solutions

Automatic measurements to help reduce keystrokes



## VAim follicle

Auto-detection of follicles' numbers and calculation of the volume for each one both in 2D & 3D

## VAim OB

Automatic measurements of fetal biometrics

## VAim Pelvic

Automatic measurements of pelvic floor both in 2D & 3D

## VAim Hip

Auto detection of hips structures and auto measurement of  $\alpha$  and  $\beta$  angles for easy Graf classification





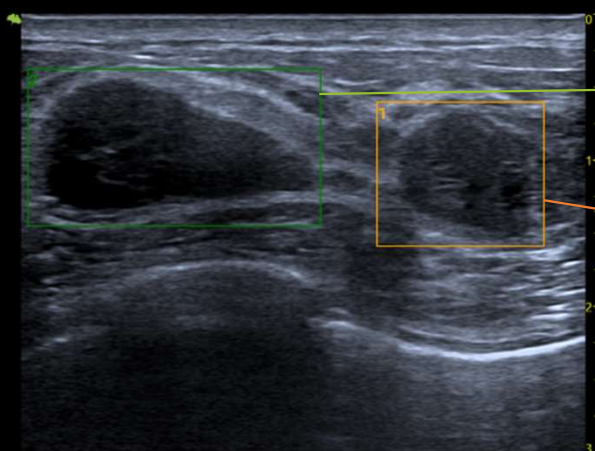
ULTRASENSE

# Women Healthcare Solution

Advanced Intelligence for Efficient Assessment

## VAid Breast

Automatic breast screening and lesion detection in real-time or stored images, along with the smart BI-RADS analysis, effectively improves quality control.



BI-RADS classification  
2&3

BI-RADS classification  
4&5



### Benefits

- Makes routine breast scanning more accurate and productive
- Real-time and automatic multi-lesion detection avoids missed-diagnosis and increase efficiency
- Smart Bi-RADS indication with streamlined measurements offers a second "expert" decision



# Women Healthcare Solution



## Intelligence-powered obstetric screening tool

### VMind OB

An intelligent one-stop solution for automatically acquiring up to 28 standard planes (the most comprehensive). With just one click, clinicians can obtain accurate and efficient fetal biometry results, ensuring unprecedented ease of operation during exams.



### Benefits

- Recognizes the standard planes like experienced users; especially helpful for the less-experienced users
- Automatically measures and saves, significantly improves efficiency
- Indication of the matching score gives confidence to the operator



# Women Healthcare Solution

Intelligent screening and diagnosis for **Amniotic Fluid**



## VAim AFI

Intelligent Amniotic Fluid Index (AFI) measurement enhances the efficiency and accuracy of prenatal ultrasound exams by providing automated, precise measurements that would traditionally be performed manually by sonographers or radiologists. Not only save time but may also increase the reliability of diagnostic information, which is crucial for monitoring fetal health.

1 AFI 17.09cm  
MPD 5.83cm  
AFD-Q1 4.29cm  
AFD-Q2 2.16cm  
AFD-Q3 4.81cm  
AFD-Q4 5.83cm



1 AFI 4.14cm  
AFI-Q1 4.14cm



One click AFI measurement on four-quadrant-image mode

Automated AFI measurement on single-clip display



# Women Healthcare Solution

Intelligent screening and diagnosis for **Endometrial Diseases**



## Auto En.

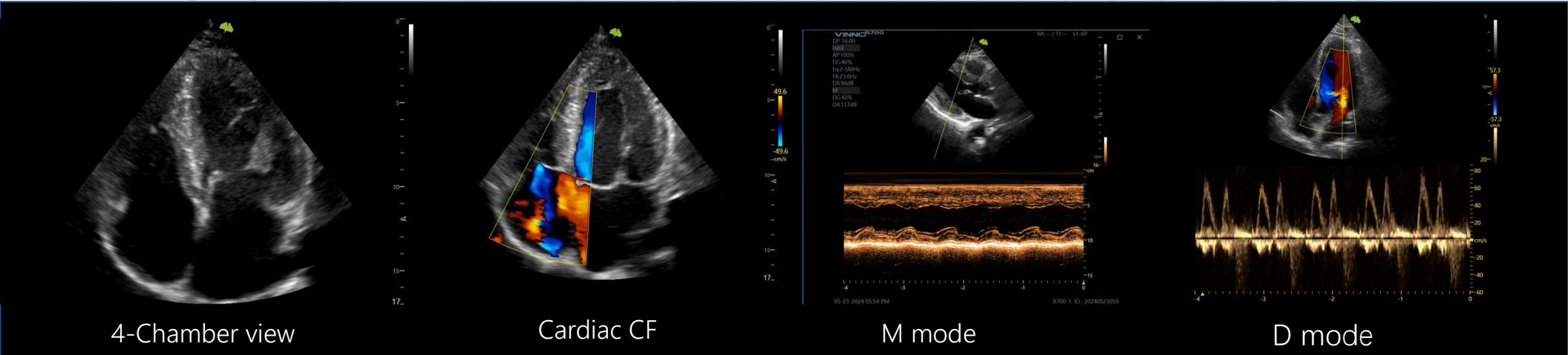
Based on deep learning technology, Auto En. provides automatic and accurate measurement of endometrial thickness for clinical screening and diagnosis, facilitating timely and accurate clinical assessments for endometrium and reducing scan time.



Available on transvaginal probe under Uterus preset



# Cardiovascular Solutions



  
**S1-6P**  
 Cardiac, Abdomen  
 Better resolution and penetration

  
**G1-4P**  
 Cardiac, Abdomen  
 Good resolution and penetration

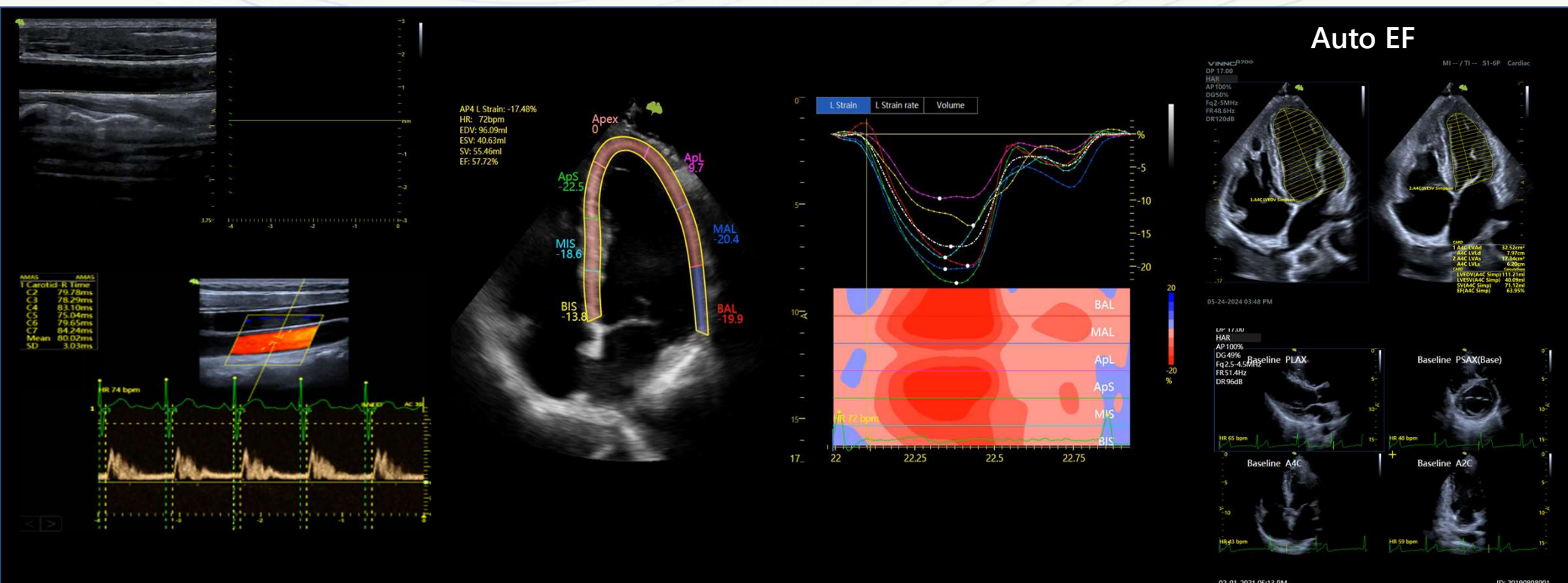
  
**X4-12L**  
 Vascular, Small parts  
 Balanced resolution and penetration

  
**X3-10L**  
 Musculoskeletal,  
 Peripheral Vascular  
 Better penetration

  
**X6-16L**  
 Vascular, Small parts  
 Excellent resolution

# Cardiovascular Solutions

Effective cardiovascular evaluation



## AMAS & PWV

Automatic measurement of arterial stiffness & arterial elasticity assessment

## Strain Imaging

Quantify wall motion of the left ventricle

## Stress Echo

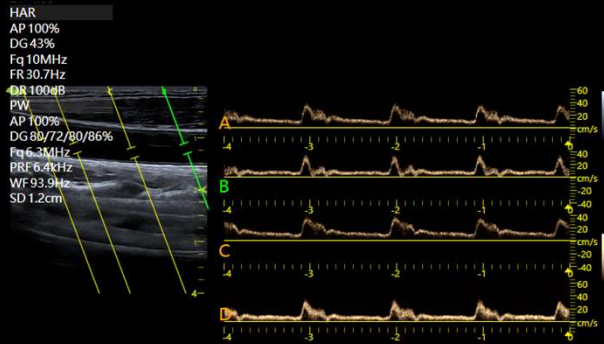
Dynamic evaluation of myocardial perfusion and viability

# Cardiovascular Solutions

Comprehensive assessment for cardiac function

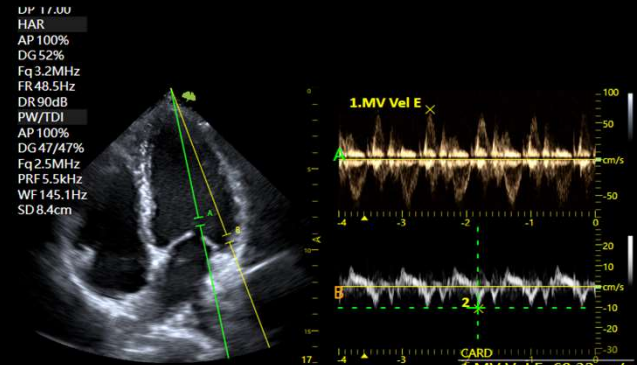
## Multi Doppler

The combination of TDI and PW allows simultaneous evaluation of wall motion, asynchronies and hemodynamics, with up to 4 sample gates for vascular and 2 sample gates for cardiac within one cardiac cycle, enabling faster and more accurate measurement of LV diastolic dysfunction, asynchronies etc. Includes combination of PW/PW, PW/TDI, TDI/TDI.



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\* PW and TD are typically acquired and measured at different periods, possibly with different HR and cardiac cycles

# Cardiovascular Solutions



## Intelligent assessment for Stroke Risk

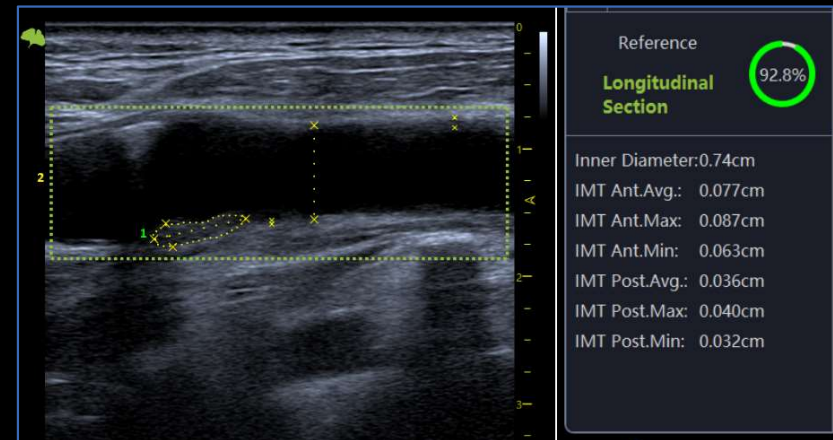
EXCLUSIVE

### VAid Carotid Plaque

Automatically identify, describe and measure carotid plaques powered by deep learning. VAid CP analyze plaque echogenicity, shape, size and vulnerability, which are critical factors in assessing stroke risk, therefore significantly enhance the accuracy of stroke risk assessment caused by carotid plaque. Great value in early detection and facilitating the implementation of preventive measures to reduce stroke risk.



Real-time lesion detection  
Plaque boundary automated outlined and plaque dimensions and characteristics are generated after freeze



In the longitudinal section under carotid, the inner diameter and IMT can automated measured

# Cardiovascular Solutions

## Intelligent workflow for Vascular Exam



### Live Track

Provide a fast and intelligent optimization for vascular imaging with a simple one-touch operation. Optimize the Color/Power/PW (e.g. ROI position, steer angle) by self-tracking and reduce time-consuming steps, simplifying the vascular exam workflow with an optimal view.





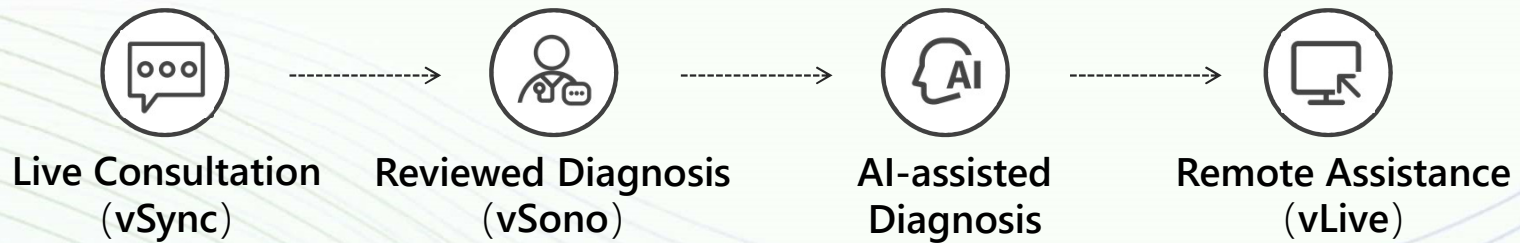
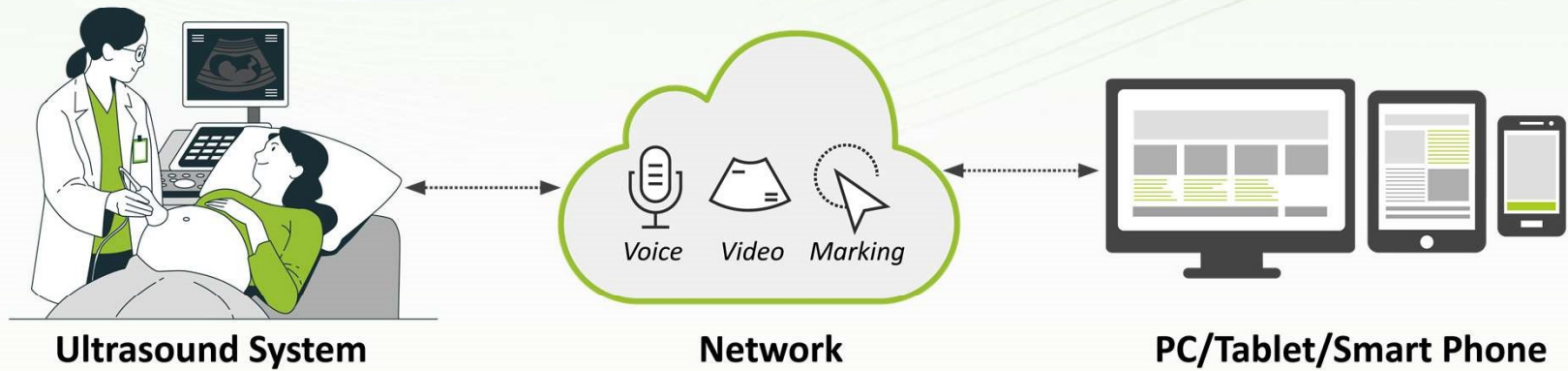
# Elevated Productivity

Enhance Productivity and Facilitate Workflow

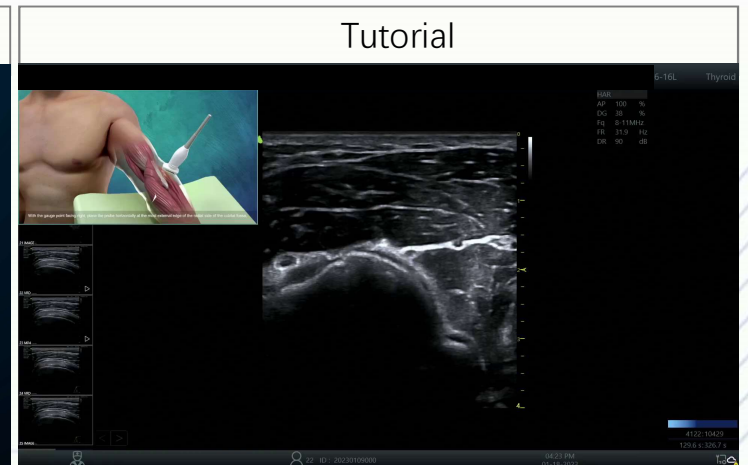
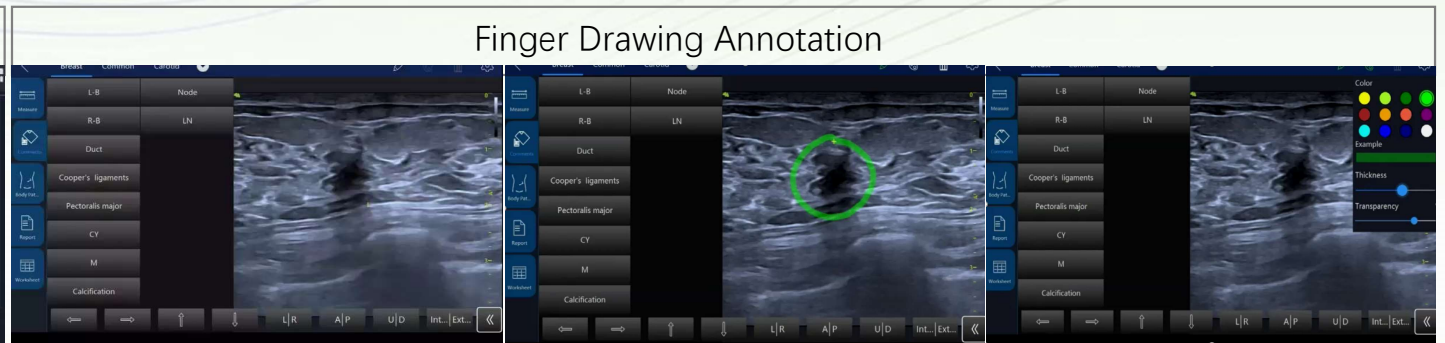


# FLYINSONO

Connect anytime, from anywhere, at any terminal



# Customizable for the Way You Work



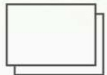

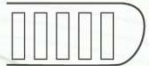


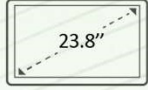
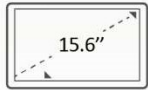


# Ergonomics for Effortless Comfort

Designed for Your Comfort and Productivity





- 5  Built-in battery for 60-minute continuous scanning
- 6  Height and direction adjustable console
- 7  5 active ports

- 1  23.8" large monitor
- 2  Tiltable 15.6" touch screen
- 3  Endocavity probe holder
- 4  In-built gel warmer



# Elevating Ultrasound Efficiency *with Lucid Vision*



## VLucid+ Platform

- Advanced processing algorithm
- Overall IQ improvement

## Highlight features

- VAid liver
- VMind OB
- Multi Doppler
- VShear
- CBI
- AMAS

## AI solutions

- VAid Liver/ HRI / Breast/ Thyroid/ GB
- VAim Follicle, Auto En., VAim OB, VAim Pelvic, VAim Hip
- VMind OB
- VAid carotid plaque
- Auto EF

## Exquisite Design

- 23.8"+15.6"
- 5 probe ports
- 1.0 hour build-in battery for continuous scanning

*The **Best Value** mid-to-high system among all current systems*

## Elevating Ultrasound Efficiency *with* Lucid Vision



INNOVATION FOR A BETTER LIFE