



# Step up to the iU22

The key reasons are now even more compelling

**PHILIPS**

# The reasons to step up to the iU22 are now more compelling than ever

## Reason #1

Reduce failed ultrasound exams on your technically difficult patients by as much as 69% with the **C5-1 PureWave transducer**.

## Reason #2

Improve early detection and characterization of breast lesions with **new tissue aberration correction technology**.

## Reason #3

Reduce ultrasound exam time by as much as 50% with **SmartExam**.

## Reason #4

Discover the advantages of volume imaging with the new **VL13-5 high-frequency volume linear array transducer**.

## Reason #5

Reach a new level of diagnosis with whole body **contrast-enhanced ultrasound**.



## Reason #1

Reduce failed ultrasound exams by as much as 69% with the C5-1 PureWave transducer.

A solution for technically difficult patients.

### Problem

The prevalence of obesity is rising at an alarming rate. Statistics show that 25% to 50% of abdominal exams are large patients. You know the challenges—longer exams, sonographer injuries, and less definitive diagnoses.

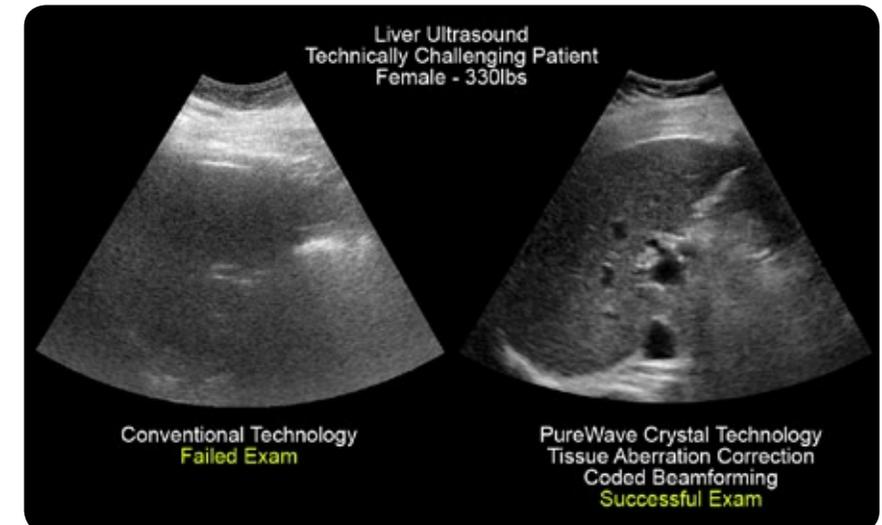
### Solution

A recent ultrasound study on technically difficult patients at six sites in North America and Europe using the C5-1 has shown that this technology can have a very positive impact on your ultrasound lab. The following summarizes the results of the study:

- Using the C5-1 transducer prevented a recommendation for additional studies with CT and/or MR due to an inadequate ultrasound study in 8% to 69% of the cases
- Exam times reduced by 2% to 38%
- A reduction in pain and fatigue from scanning in 29% to 85% of exams
- Sonographers felt that they had to push less in 48% to 93% of the cases in order to achieve penetration of an organ or structure
- Marked improvement in color sensitivity in 31% to 86% of the cases



Imaging the Challenging Patient Comparison Study—female, 330 lbs



## Reason #2

# Improve early detection and characterization of breast lesions.

## New tissue aberration correction technology improves lesion resolution.

### Problem

One in eight women will develop breast cancer. This is now the second leading cause of death for women in the world, partly because many breast lesions go too late before they can be characterized as malignant or benign. Breast tissue with higher fat content will result in speed of sound changes. The reduction of overall image sharpness and decreased tissue definition make diagnosis even more challenging.

### Solution

Now the iU22 system offers tissue aberration correction on breast transducers to compensate for speed of sound variations to improve detail resolution and conspicuity of lesion details. With the push of one button users can select tissue aberration correction variations to match speed of sound processing to individual breast fat content, allowing maximum diagnostic performance across the spectrum of breast architecture types—dense to fatty.



Tissue Aberration Correction



Standard Speed of Sound

# iU22 ultrasound system

## Vision 2009 advanced breast imaging



# iU22 ultrasound system

## Vision 2009 advanced breast imaging



## Reason #3

Reducing ultrasound exam time by up to 50% is now as easy as doing one exam.

### Introducing SmartExam.

#### Problem

The increasing case load of ultrasound departments is driving ultrasound clinicians to find ways to increase productivity and improve efficiencies in performing ultrasound exams.

#### Solution

The iU22 protocols feature has already been shown to reduce ultrasound exam time by 30% to 50%. Now designing a new exam protocol is as easy as performing the exam. With the new SmartExam feature, while you perform the ultrasound application, the iU22 remembers every step—all required images for the study, your annotation, body markers, mode changes, and quantification requirements. You can even incorporate 3D data sets into the protocol. Once the exam is saved, you can select and use your new customized protocol whenever you need it. Annotation will be entered exactly the same each time, based on the view you're acquiring—no need to stop scanning and make entries. Required modes, such as Doppler, are automatically launched, and measurements are automatically entered into reports.

#### Independent studies show SmartExams save time

Exam	Time savings
Abdominal	38%
Vascular	52%
OB	43%

## Reason #4

# Discover the advantages of volume imaging.

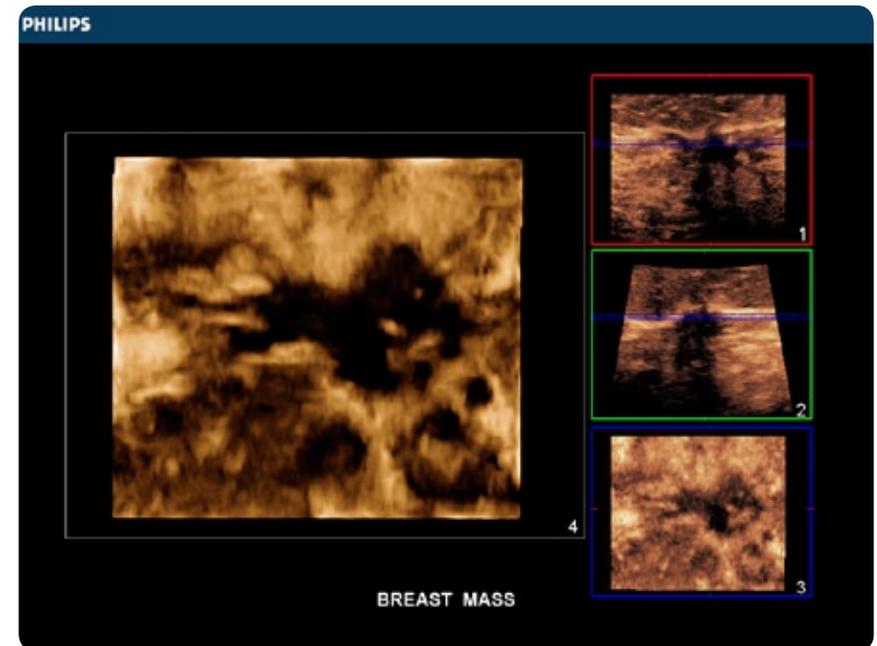
## Introducing the VL13-5 high-frequency volume linear array transducer.

### Problem

2D images and clips do not permit examination of structures in planes that cannot be directly interrogated by the ultrasound beam, nor do they provide 3D representations of anatomy. There is often doubt with 2D imaging when you are scanning in fixed planes and concern that something may have been missed. Viewing ultrasound images is not the same as CT and MR. It's the difference between reviewing random 2D ultrasound images versus a block of volume data.

### Solution

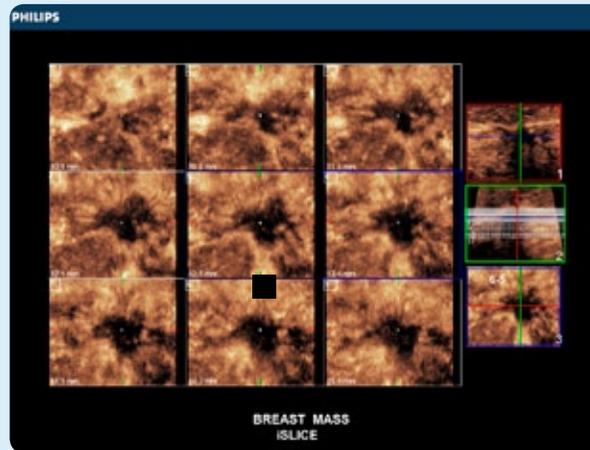
With volume imaging on the iU22 system and the ViewForum workstation, you are now able to view ultrasound in the same format as CT and MR. Virtually re-scan volume data in a familiar workflow, obtain critical information not available with traditional 2D views, take additional measurements, and compare ultrasound studies with other modalities. In addition to volume transducers for abdominal, OB and GYN exams, the new VL13-5 high-frequency linear array allows you to review volume data for breast, thyroid, musculoskeletal, vascular, and other superficial applications.



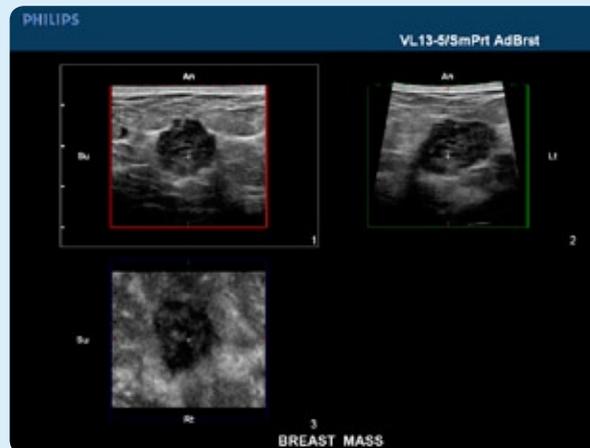
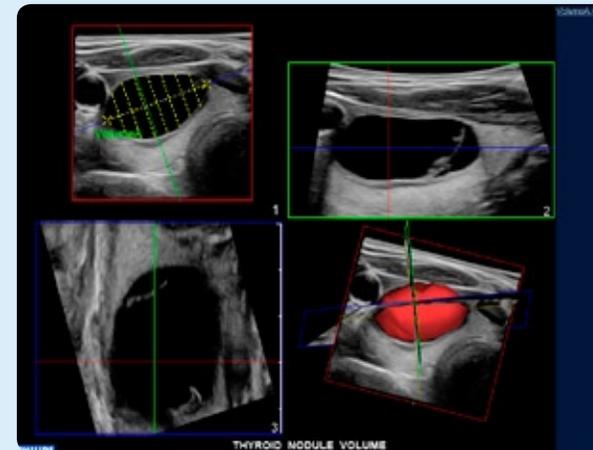
# iU22 ultrasound system

## VL13-5 volume linear

### Breast Imaging



### Thyroid Imaging



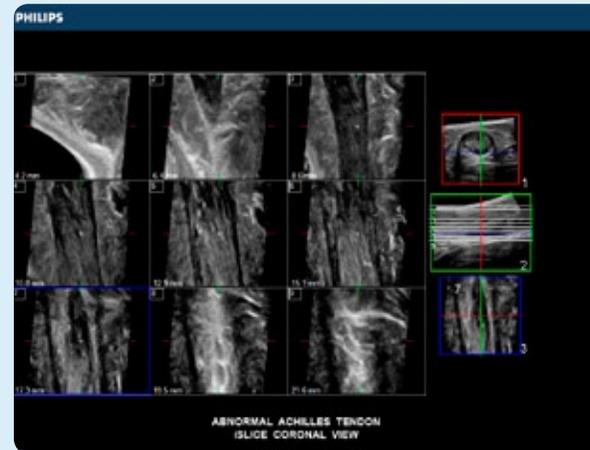
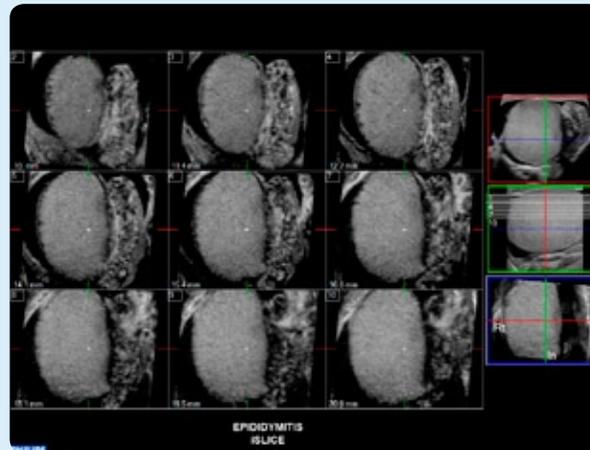
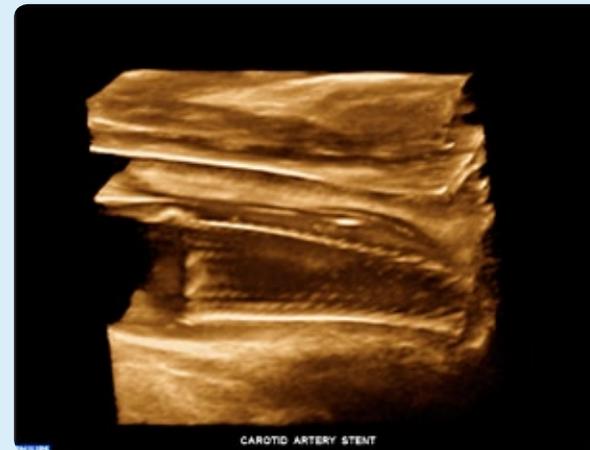
# iU22 ultrasound system

## VL13-5 volume linear

### Testicular Imaging



### Vascular and Musculoskeletal Imaging



## Reach a new level of diagnosis.

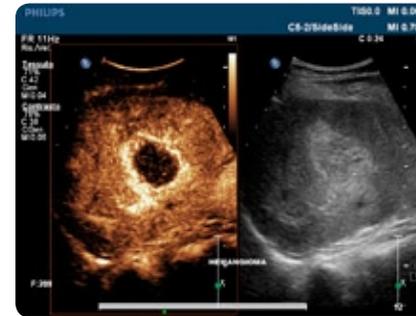
### Whole body contrast-enhanced ultrasound.

#### Problem

While contrast-enhanced ultrasound (CEUS) is becoming a standard-of-care to detect, characterize and monitor solid tumors throughout the body, it remains challenging to see and characterize tumors in difficult anatomy, such as obese or cirrhotic patients. It can also be difficult to see small tumors, especially in the breast where they need to be characterized early—before it is too late.

#### Solution

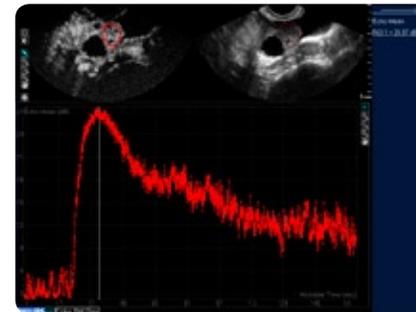
New contrast-enhanced ultrasound technologies on the Vision 2009 iU22 provide CEUS tools to help overcome these problems. A narrow footprint and advanced pulsing technologies on the C5-1 PureWave transducer provide unmatched penetration and resolution to help you characterize tumors—even in the most difficult anatomy. Advanced XRES and tissue aberration correction technologies on the L12-5 transducer can help you characterize breast tumors earlier in their development, improving treatment planning.



Liver Contrast



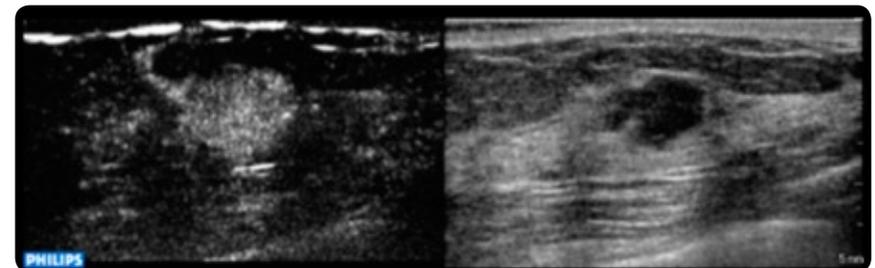
Liver Contrast



Ovarian Contrast



3D Contrast



Breast Contrast

# iU22 Vision 2009

## Whole body contrast support

Clinical application	Supporting transducer(s)
Abdominal (2D, 3D, 4D) – Liver, pancreas, kidney, spleen, aorta – Biopsy, ablation	C5-1, C5-2, S4-1, V6-2, X3-1, 3D6-2
Superficial – Breast, vascular, thyroid	L12-5, L9-3, L8-4
Transcranial Doppler (TCD)	S5-1
Transvaginal – Ovarian, uterine	C8-4v
Prostate	C8-4v, C9-5ec
Left ventricular opacification (LVO)	S5-1

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Visit the web for more information:

[www.philips.com/pushingtheboundaries](http://www.philips.com/pushingtheboundaries)

Call your Philips representative today  
and arrange to see the iU22 in action.

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