Now you can image every body

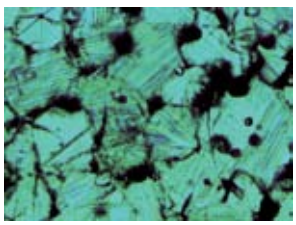
Philips iU22 ultrasound system solution for challenging patients

PHILIPS

Solving problems on a large scale

The light weight, slim form of the C5-1 transducer, paired with its flexible cable, facilitates comfort while scanning.

The prevalence of obesity is rising at alarming rates, and globally, the overweight population now rivals the underweight. As clinicians, you're well aware of the challenges in obtaining diagnostic data on your larger patients. Challenges that impact the quality of data, exam schedules, the need for more extensive tests, staff injuries and lost work hours, and overall healthcare costs.



Conventional PZT material (800x)

PureWave crystal material (800x)

The solution is the C5-1 transducer

The C5-1 transducer combines the proven image quality of PureWave crystal technology with new developments in aberration correction technology that compensate for the affects of adipose tissue and sub-optimal resolution at extended depths. You'll realize superb imaging capabilities on all your patients, including the most technically challenging.

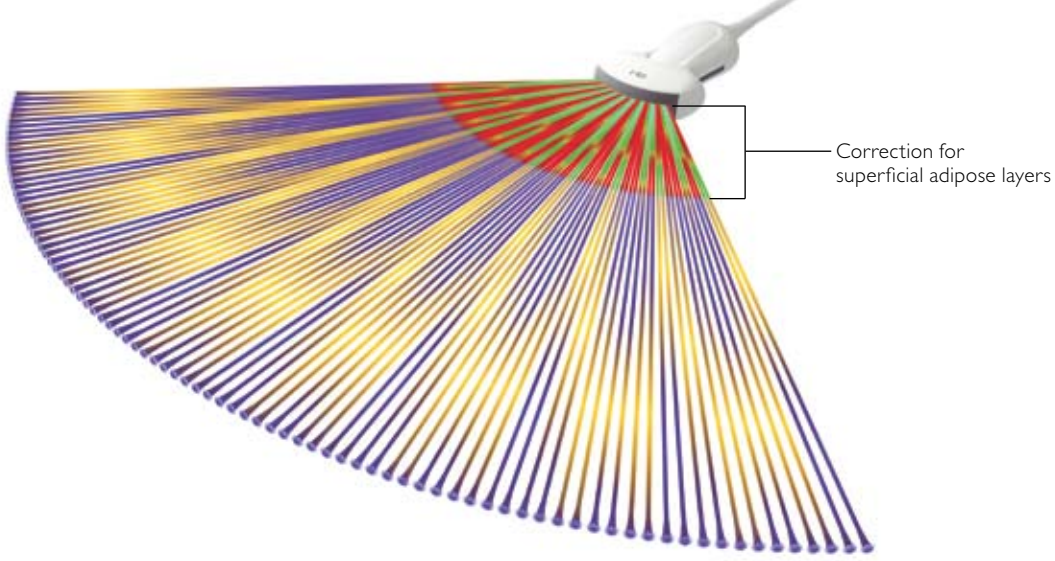
Clinical utility and ergonomics are built into the C5-1. Its housing is slim, allowing for excellent intercostal access. The transducer and cable are also lightweight, adding to comfort while scanning. Between its imaging performance on all patient types and its ease-of-use, the C5-1 will be the one-transducer solution for many users.

The solution combines four key Philips technologies

PureWave

The ability to image a wide variety of patients with a single transducer and improved penetration in technically difficult patients are significant benefits you'll realize from PureWave crystal technology.

You can count on PureWave's 2D image quality, highly sensitive Doppler, and new levels of harmonic imaging. PureWave's pure uniform crystals exhibit high levels of efficiency for exceptional performance, reducing clutter and providing you with images revealing excellent detail of fine structures, such as renal vasculature, fetal cardiac structure, and biliary anatomy.



Tissue aberration correction

Tissue aberration correction adjusts for the speed of sound as it passes through adipose tissue. Without the usual acoustic beam distortion, you'll see sharpened spatial resolution on your technically difficult patients, including the obese.

The C5-1 transducer was designed specifically to accommodate for the altered speed of high frequency sound waves through adipose layers versus other tissue. The result is increased penetration and clarity in image quality throughout the entire beam length.

Coded beamforming

Coded excitation using new chirp transmit technology recovers more tissue information for excellent detail resolution at extended depths. Coded harmonics reduces image degrading artifacts while maintaining penetration qualities.

Advanced XRES

Advanced XRES uses a special algorithm for high resolution and high speed adaptive image processing. Images are virtually free of speckle noise artifact for sharp border delineation on all your patients.

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