

## *4D Ultrasound Fact Sheet*

### **GE 4D ULTRASOUND – REVOLUTIONARY ULTRASOUND IMAGING CAPABILITIES**

#### **Description and Overview**

First introduced at the end of 2001 by GE Medical Systems, 4D Ultrasound displays clinical images of the human body, allowing physicians and patients to see revolutionary “4D images.”

#### **4D Ultrasound Scanners**

GE’s exclusive 4D Ultrasound imaging technology is featured only on the Voluson 730 EXPERT and Voluson 730 PRO systems.

#### **Image Acquisition Speed**

The Voluson 730 EXPERT features the next generation of RealTime 4D Ultrasound, which increases the maximum data acquisition speed from 16 volumes per second to 25 volumes per second. The faster acquisition speed provides the ability for more advanced applications, such as imaging the fetal heart.

#### **4D Ultrasound**

“4D” is shorthand for “four-dimensional”– the fourth dimension being time. 4D Ultrasound takes three-dimensional ultrasound images and adds the element of time to the process. The result: Live-action images of an unborn child or of any internal anatomy.

#### **4D Ultrasound Advantages**

In contrast to other 3D imaging diagnostic processes, 4D allows a doctor to visualize internal anatomy moving in real-time. By viewing fetal movement patterns, doctors can assess a baby’s development.

#### **4D Ultrasound Risks**

4D Ultrasound uses sound waves to look inside the body, just like conventional ultrasound technology. A probe placed on the body emits sound waves into the body, listens for the return echo and generates an image. Scientific studies have not shown any potential dangers from ultrasound exams. However, a 4D exam should be a prescribed procedure conducted by a trained medical professional.

#### **4D Applications**

GE’s 4D Ultrasound systems are full-service ultrasound systems that can be used for breast imaging, interventional urology and general imaging in addition to being the premium offering for women’s healthcare.