



Professional Ultrasound Services

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Types of Sonographic Imaging Display

1. Display Formats

- a. A-mode
- b. M-mode
- c. B-Mode
 - i. Static scan
 - ii. Real-time

2. Real-time

- a. Definition: an automated B-scanning process in which the motion of the ultrasound beam is under mechanical or computer control.
- b. Received echoes are stored in a scan converter.
- c. Multiple still images are obtained and processed in a short period of time producing the illusion of motion.
- d. Transducers
 - i. Mechanical
 - ii. Phased
 - iii. Sector
 - iv. Linear
 - v. Convex

2. Gain Compensation

- a. A method compensating for the attenuation of sound by tissue.
 - i. Overall gain: increase or decrease the amplitude of all returning echoes (RF Signals produced by the transducer crystal). Similar to the volume on a stereo system.
 - ii. Depth Selective Gain Amplification: TGC, DGC: allow selective increase or decrease of RF signals obtained from different depths in the body.