



## Analytical Technologies mid - Range Whole Body Color Doppler



### ATL 3330 WBC

#### Specification:-

##### 2D Color Doppler Ultrasound Equipment

The equipment is capable of operating in B, M, Doppler, Color flow and Power Doppler modes. It supports transducers with linear, sector and convex formats. Further, it includes a full array of measurement and calculation packages. The specific minimum requirements for this equipment are as follows

##### A. User Interface & Ergonomics

1. The system supports backlight keys or provide an integrated light for ease of use in darkened work areas.
2. The system includes at least a 17" LCD monitor to allow for both excellent images viewing as well as providing for workflow and productivity features
3. The system has three active universal probe ports in a convenient, easy to access location to maximize the availability of needed probes

##### B. Productivity

1. The system offer an extended field-of-view imaging that operates by sweeping a transducer over the anatomy of interest. This mode builds the extended field of-view in a real-time manner, showing the image as it builds
2. System has image management features that store images by patient and include the ability to review images from different exam dates



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3. System supports the ability of post image acquisition optimization to optimize imaging parameters such as B Gain, TGC, Color Gain, Dynamic Range and Speckle Reduction levels, Doppler Gain, Doppler Base Line on image recalled from the image archive.
4. System allows for live image and archive images side-by-side or quad display on a single monitor. This display allows any type of image – B-Mode, Color, or power Doppler on either side
5. The system displays thumbnails on a clipboard while scanning to facilitate exams
6. Unit has Semi-Auto/ Auto IMT (Intima media thickness measurement) facility.
7. Unit has Ultrasound Contrast imaging capability (Micro bubbles). Tissue Harmonic imaging with contrast is available as standard feature.

### **C. Post-acquisition Data Processing.**

1. The system allows for Real Time or Frozen image manipulation to provide maximum image flexibility, review and productivity. It includes, at a minimum the ability to change the:

- Overall B-Mode gain, dynamic range and gray scale maps.
- Overall Doppler gain, base line shift, sweep speed and inverted spectral waveform.

2. The system provides a display zoom function on frozen images.

### **D. Scanning Parameters**

1. The system possess the ability to control speckle through the use of a speckle reduction (SRI) algorithm that enhances borders, reduces speckle artifact and improves detail and contrast resolution in gray scale with compatibility in Colour mode.

2. The system provides the ability to scan in the compound imaging mode with multiple lines on all linear and convex probes

3. The system provides scan depths from a minimum of 2 cm to a maximum of at least 30 cm.

4. System has minimum of 17,000 Digital Channels for better resolution

5. System has Dynamic Range of at least 170 Db.

### **E. M-Mode Imaging**

1. The system has a facility allowing the M-Mode cursor is adjustable in any plane and allow for accurate measurements. The M-mode is available from a CINE loop or live image.

### **F. Spectral Doppler (PW)**

1. Doppler mode is available on all probes.



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2. The Doppler cursor is user-steerable with linear transducers
3. The system provides the user with control to either have Doppler with real time B-Mode, Doppler with periodic B-Mode update or Doppler with frozen B mode scanning
4. The system provides stereo audio of the Doppler spectral signal
5. The system provides the user with control during timeline replay to review the spectrum only (i.e., frozen B-Mode) or with the spectrum and B-Mode together and synchronized.
6. The system has auto colour with Doppler facility.

## **G. Measurements and Calculations**

1. The system provides digital calipers for at least the following measurements:

Depth & Distance

Circumference

Area

Volume

Velocity

2. All measurements is possible on frozen images as well as on images recalled from the image archive.

3. The system provides a comprehensive set of obstetrical and gynecologic calculations and vascular calculations with summary reports.

4. MULTIPLANAR views and surface rendering as well as vascular 3D capturing for Gray scale or Colour Mode or Power Doppler. System is capable of capturing 3 dimensional data from parallel or sweep movements.

## **H. Image Archive and Networking**

1. The device stores images onto an integrated DVD-R Multi drive and a USB port storage device
2. The system includes at least 100 GB bytes of dedicated hard drive for large local storage capacity.
3. DICOM Connectivity is a standard feature with the hospital network.

## **I. Transducers**

1. Transvaginal Probe with Biopsy attachment, Operating Frequency 4- 9 MHz
2. Convex Probe. Operating Frequency: 2 - 5 MHz
3. Linear Probe. Operating Frequency: 5 – 10 MHz



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