



**biosound**  
**eSaote**

## MyLab40

The MyLab<sup>®</sup>40 is the optimal solution for the shared service ultrasound department or clinic. Developed on the acclaimed MyLab<sup>®</sup> platform, it offers multiple applications and a wide range of transducers common to the MyLab family. The cart is compact and ergonomic, with a 19" LCD that produces unmatched image quality both in terms of contrast and spatial resolution, while increasing user comfort and reducing eyestrain.

As with all MyLab family products, the MyLab40 offers extended connectivity and data management options. The

internal hard drive, USB port and built in CD/DVD writer allow the user to save data quickly and easily to different media types. Windows networking allows further options for data transfer and storage.

MyLab<sup>®</sup>Desk is an ideal solution to increase workflow and productivity. This application installs the MyLab40 user interface onto a PC, offering a complete reviewing and processing workstation.

**Full Service Without Compromise.**

## Technical Specs

### > PROBE TECHNOLOGIES

- Convex Array (CA)
- Linear Array (LA)
- Phased Array (PA)
- Doppler Pencil

### > MODES

*(certain modes are optional and not included in basic unit)*

- B-Mode: Fundamental / TEI<sup>®</sup>
- CFM: Velocity / Velo-Variance / Power Doppler / TVM, Intensity
- M-Mode / Color M-Mode: Real Time / Frozen / B-ref
- CMM: Compass M-Mode
- Doppler PW: Duplex / Triplex / Frozen / B-reference / HPRF / TV
- Doppler CW: Frozen / B-ref (with PA and Pencil probes)
- Zoom (Read/Write)
- CnTI<sup>®</sup>
- Panoramic (VPan)
- Freehand 3D + 4D
- QIMT (Quality Intima Media Thickness)
- XView (3 levels XView optional, 1 level XView standard and embedded).

### > FORMATS

- Imaging: Full / Split / Multi / L-R / U-D
- Tracings: Split / Dual (scroll by line)

### > FRONT END

- Dynamic Range: 146dB
- Up to 8 dynamically controlled focal points for every probe
- CW generation capability with programmable aperture
- Multiple user-selectable pre- and post-processing curves

### > B-MODE

- Sector Image Area: 640 x 480 pixels
- FOV: 30° - 90° (PA)
- Depth: 3cm - 36cm
- PRF: ≤ 11kHz
- Acoustic Lines: up to 512
- Acoustic Frame Rate: up to 200Hz
- Probe Dependent Formats: PA, LA with steering, CA

### > M-MODE

- Sweep Time: 2 - 16s (step = 1s)

## > COLOR DOPPLER

- Sampling PRF: 350Hz - 11kHz
- Frame Rate: up to 40Hz
- Frame Interpolation/Interleave: up to 16 lines
- Samples: up to 512/line
- Packet Size: 4 - 28
- Size: 15 - 85% of max B/W size
- Steering (LA): 6°/12°/18°

## > SPECTRAL DOPPLER

- PRF: 2.6 - 33.3kHz (PW)
- Wall Filters: 50 - 1800Hz (8 step)
- Stereophonic Audio
- Sweep Time: 2 - 16s (step=1s)
- Spectrum: FFT with 128 frequencies, interpolated up to 512 points (analysis time  $\leq 1$ ms)
- Sample Size: 1 - 24mm
- Angle Correction:  $\pm 75^\circ$
- Velocity Range: up to  $\pm 6.42$ m/s at 2.0MHz (CW)

## > GENERAL

- Display: LCD, 19" TFT technology, color XVGA
- Probe Connectors: 3 active imaging, 1 Doppler
- Video I/O:
  - XVGA (monitor)
  - S-VHS
  - VHS
  - RGB (TV standard)
  - Video standard (PAL/NTSC)
- Memory:
  - Cine Memory: 256MB
  - Digital Drives: HD:  $\geq 80$ GB; DVD $\pm$ R/RW
- Connectivity:
  - Ethernet (LAN), USB 2.0, Optical Drive (CD-RW/DVD $\pm$ RW)
  - DICOM® Classes: Store, Worklist, Media Store, Structured Reports, Print, MPPS, SC
  - ECG Input, Footswitch
- Output File Formats: DICOM, MyLab Native format, Standard PC Graphic formats (.avi, .jpg, .bmp, .png)

- Clip Characteristics:
  - Clip Format AVI: Codec Microsoft® MPEG4-V2, Codec Microsoft® Video1
  - Still Frames: JPEG lossy, PNG lossless, noncompressed BMP
- Operating System: Windows® XP Embedded Multilingual
- Biometry: Basic-advanced calculations (application dependent), annotations, body marks
- Imaging Keyboard: TGC sliders, encoders for general gains, keys for modes, peripherals management and controls
- QWERTY Alphanumeric Keyboard (built-in)
- Power Cables: 510 IE C320, C13 type; 13A 125V
  - Plug Type: NEMA 5 - 15; 13A - 125V
  - Conductors: 3; Section: AWG 16
- Dimensions:
  - 21in (W) x 31.5in (L) x 58in (H)
  - Weight: 140 lbs
- Power Supply:
  - Voltage Operative Range: 100 - 240V
  - Frequency: 50 - 60Hz
  - Power Consumption:  $\leq 200$ VA
- Operating Requirements:
  - Temp.: 59 - 95°F
  - Humidity: 15 - 95% (not condensing)
  - Press: 700 - 1060hPa
- Storage Requirements:
  - Temp.: -4 - +140°F
  - Humidity: 15 - 95% (not condensing)
  - Press: 700 - 1060hPa

## > SAFETY STANDARDS

- IEC 60601-1
- IEC 60601-1-1
- IEC 60601-1-2
- IEC 60601-1-4
- ISO 10993-1
- IEC 60601-2-37
- AIUM / NEMA UD-2 / UD-3 - FDA 510(k) Track 3



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