Summit Doppler™ LifeDop® ABI Vascular System

Reference Guide

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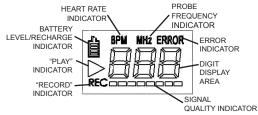
Thank you for choosing the LifeDop® L250ABI. We believe you have purchased the finest handheld Doppler and portable printer on the market. This Reference Guide is intended to give basic instructions on the use of your Doppler. Please refer to the User Manual for full instructions and specifications.



Included in the Packaging – LifeDop L250ABI series unit, 8MHz Bi-Directional Probe, Printer with Cable and Printer Recharger, Printer Paper, 60 Grams of Gel, and Carrying Case.

Obtaining a Waveform – For the best sounds, angle the probe approximately 45 degrees from the skin surface over the general location of the vessel. Slowly move the probe side to side and vary the angle of the probe until the vascular sounds are heard. Changing the angle of the probe has an effect on the frequency of the sound. The steeper the probe angle is, the higher the frequency of the sound.

Signal Indicators – Once flow sounds are found, the signal strength indicators give the user a visual display of the flow direction and relative strength of the signal. Four bars to the left indicate flow toward the probe, while the four bars to the right indicate flow away from the probe. Vary the probe as described above while viewing the indicators to obtain the best results.



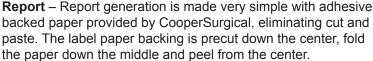


Buffering a Waveform – Once the desired flow is found, press the red "PRINT" button on the side of the unit to buffer the PREVIOUS four seconds of flow. When the waveform is buffered, as indicated by "STR" on the display, the probe is temporarily shut off and can be removed from the patient. The printer does not need to be connected to buffer the waveform - the LifeDop will wait until the printer is ready. Note: Only one waveform can be buffered at a time and the LifeDop must remain ON in order to retain the waveform.

Connecting the Printer – Ensure that the printer is loaded with paper and connect the cable to the printer and LifeDop as shown. Note the label "THIS SIDE UP". Turn the printer on by HOLDING the power button down until the LED comes on. If the printer is functioning properly and ready to print, the LED will flash green twice every second.



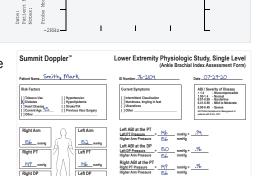
Printout – Once the printer is operational and the cables are in place, the LifeDop will automatically download the waveform and printing will begin. If the PRINT button is pressed while the printer is connected and ready, printing will start immediately.

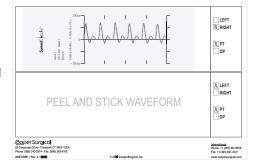


Intended use – This product is used to detect blood flow in the veins and arteries for assisting in the detection of peripheral vascular disease.

Warning – Vascular probes are not intended for fetal use or to be used on or near the eyes. The device is for use on intact skin. Do not plug any part of the device into a telephone or modem system.

Caution – U.S. Federal law restricts this device to sale by or on the order of a licensed practitioner.





ABI Exam Outline

This outline provides a step-by-step method for conducting the basic ABI examination. For a more detailed description of each step, refer to the ABI Diagnostic Examination Guide section in the manual.

In a warm room, have the patient take off his/her shoes and socks and rest in a supine position for approximately 5 minutes prior to taking pressures. The patient should wear thin, loose fitting clothing. Avoid rolling up sleeves or pant cuffs in such a manner that it obstructs blood flow. Bulky items such as sweaters should be removed.

1. RIGHT BRACHIAL ARM PRESSURE – With the patient lying down, take the right brachial pressure with the Doppler and record the value on the report form.

To obtain the Right Side Study

- 2. RIGHT ANKLE DP OR PT WAVEFORM (without inflating the cuff) * Acquire the arterial pulse with the Doppler at the right foot and print the Doppler waveform prior to taking the ankle pressure. Attach the waveform to the report form. Check the "RIGHT" box and indicate that the waveform was taken at the posterior tibial (PT) or the dorsalis pedis (DP).
- 3. <u>RIGHT ANKLE PT SYSTOLIC PRESSURE</u> Take the right ankle PT pressure and record the value on the report form.
- 4. RIGHT ANKLE DP SYSTOLIC PRESSURE Take the right ankle DP pressure and record the value on the report form.

To obtain the Left Side Study

- 5. <u>LEFT ANKLE DP OR PT WAVEFORM</u> (without inflating the cuff) * Acquire the arterial pulse with the Doppler at the left foot and print the Doppler waveform prior to taking the ankle pressure. Attach the waveform to the report form. Check the "LEFT" box and indicate that the waveform was taken at the posterior tibial (PT) or the dorsalis pedis (DP).
- 6. LEFT ANKLE PT PRESSURE Take the left ankle PT pressure and record the value on the report form.
- 7. <u>LEFT ANKLE DP PRESSURE</u> Take the left ankle DP pressure and record the value on the report form.
- 8. LEFT BRACHIAL ARM PRESSURE Take the left brachial pressure. Record the left brachial pressure on the ABI / Risk Assessment Form.
- 9. CALCULATE ABI VALUES Calculate the ABI for both sides. (For each side, divide the ankle pressure by the higher of the two arm pressures.)
- * Press the RED button on the side of the LifeDop to print the PREVIOUS four seconds of waveform data. To obtain optimum Doppler waveforms, be sure to maintain a 45 degree angle between the probe and artery. Use plenty of gel and minimize pressure that could compress the artery.

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