



NV3500 Bidop 3 Visual Pocket Doppler - start up guide

Bi-directional vascular doppler with real-time visual waveform display for arterial and venous testing.



Features and Benefits

- LCD screen displays real-time waveforms, numerical data and heart rate.
- MENU shows various mode settings for optimal measurement.
- 30 waveform memory.
- Convenient probe activation button (On/Off) freezes waveform and numerical data for notation.
- Battery life: Approx. 2.5 hours
- Automatic shut off - No signal: 2 mins, Freeze: 5 mins, Others: 10 mins
- Mode settings: Memory, Waveform, Direction, Time scale, Others
- Speaker output: 200mW or more
- Frequency range: 80 / 200Hz to 5Hz
- LCD display: 128 x 64 dots
- Dimensions (mm): 78 (W) x 141 (D) x 27 (H)
- External outputs: Headset & USB port
- Optional computer interface software

Accessories included: carrying case, headset, tube of ultrasonic gel, 1-9V battery, carry strap, operator's manual.

Accessories optional: PPG probes (NV3503 - 5MHz NV3504 - 8MHz NV3505 - 10MHz); Smart-V-Link Software (NV3510)

Clinical applications:

Ankle Brachial Index (ABI), Peripheral Vascular Procedures, Segmental Studies, Digit Waveforms & Systolic Pressures, Venous Compression Studies, PPG Venous Reflux, PPG Toe Pressures & Toe Brachial Index (TBI).

STEP 1 – ON/OFF

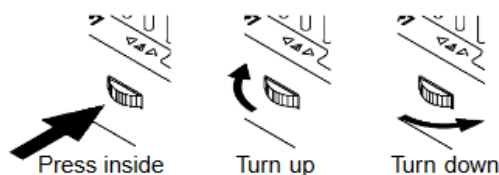
To turn the unit **ON**, connect the probe and press the Shuttle button on the left side of the unit.




To turn the unit **OFF**, press the probe button or Shuttle Button longer than 2 sec.

STEP 2 – MENU

Turning the Shuttle button up or down selects MENU and pressing it inside sets the mode or executes command. When on 'freeze' mode, turning it up and down displays memory data.



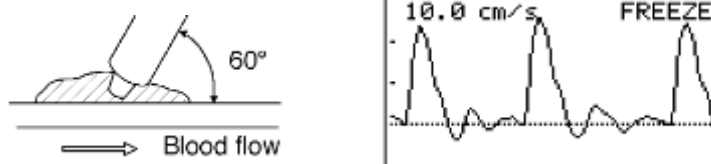
The back key  exits the menu, go back to previous menu or changes the display from WAVE to DATA and vice-versa.

STEP 3 – OPERATION EXAMPLE: BLOOD VELOCITY MODE

Put ultrasonic gel on the probe top or patient skin.

Press the probe button or Shuttle Button to turn the unit ON. Turn the volume control to maximum. (Note if a headset is used to listen to Doppler sounds, it will cut off the speaker).

Put the probe on the measurement area and move it slowly to locate the point where the maximum Doppler sounds are heard. An ideal probe angle to the vessel is approximately 45 to 60 degrees against the flow.



When the waveform becomes rhythmical and stable, press the probe button to freeze the waveform. (Note: If the probe button is pressed longer than 2 sec, the unit will turn OFF).

To get numerical data, press BACK key or change the DISP mode to DATA

S:	23.6	cm/s	FREEZE
MN:	4.7	cm/s	
D:	0.2	cm/s	
RP:	0.99	SD:	98.33
PI:	5.74	HR:	60BPM

STEP 4 – TO SAVE FROZEN WAVEFORM AND NUMERICAL DATA IN THE MEMORY

Press the Shuttle button to display MENU

Select MEMORY by turning Shuttle Button up or down and press it.

Select STORE by turning Shuttle Button up or down and press it.

```

MENU
MEMORY
MODE      Δ
DIR       ⇐
TIME      ↲
OTHERS
  
```

```

MEMORY
STORE     10.05
READ
CLEAR
  
```

The memory number showing left will be displayed.

Turn Shuttle Button up or down several times to choose the memory number in which frozen waveform and numerical data will be stored.

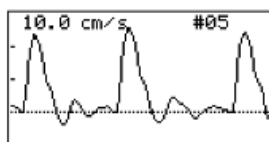
Press Shuttle Button to store the frozen data.

STEP 5 – TO DISPLAY STORED DATA ON THE LCD

Select the Shuttle button to display MENU

```

MEMORY
STORE     10.05*
READ
CLEAR
  
```



Select MEMORY with Shuttle Button and press it to display sub menu.

Select READ with Shuttle Button and press it.

Select memory number from which you want to read the data.

Press Shuttle Button to read the data

```

MEMORY
STORE     10.05*
READ
CLEAR
  
```

