

## Maintenance & Care

The JorVet Hand-Held Doppler can be operated in a temperature range of 50-113°F (10-45°C) with humidity not exceeding 85%. Do not expose to extremely high or low temperatures.

Special care is needed for the probe. Mechanical shock should be avoided and careful handling is necessary as damage can occur if the probe hits a hard surface.

The probe can be cleaned with a soft tissue or cotton ball moistened with water or dilute alcohol. Do not scratch or use any abrasive cleaning materials. Do not use organic solvents. Use only mild detergent or disinfecting products. Do not attempt to disconnect the probe from the main unit by pulling on the cables, always use the metal connectors. If gel is allowed to dry on the probe, soak the probe in mild detergent, water or dilute alcohol to loosen the debris, do not scratch or use any abrasive cleaning materials on the probe to remove the gel.

The main Doppler unit can be cleaned by wiping with a soft cloth or paper towel lightly moistened with a mild detergent, disinfectant or dilute alcohol. Take care not to get any liquid in any of the connection points. Never submerge the Doppler unit in any type of liquid.

Repairs - In the case of damage or any questions about the correct operations of the device, please contact JorVet. There are no user serviceable parts inside the unit. Do not open the device; there are no elements inside designed to be operated by the user and doing so will void the warranty.

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## Warranty

This equipment is guaranteed for a period of one year after the date of purchase when used under normal conditions. Do not open the main Doppler unit; doing so will void the warranty. In the event of any service needed during the warranty period, please contact JorVet. If the warranty has expired, repair services are still offered for a fee; please contact JorVet for details.

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## Additional Probes

Pencil Probe for exotics - J0563ND10

Esophageal probe - J0563ND11



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# JorVet Doppler Monitor Gen II

## J0563N User Manual



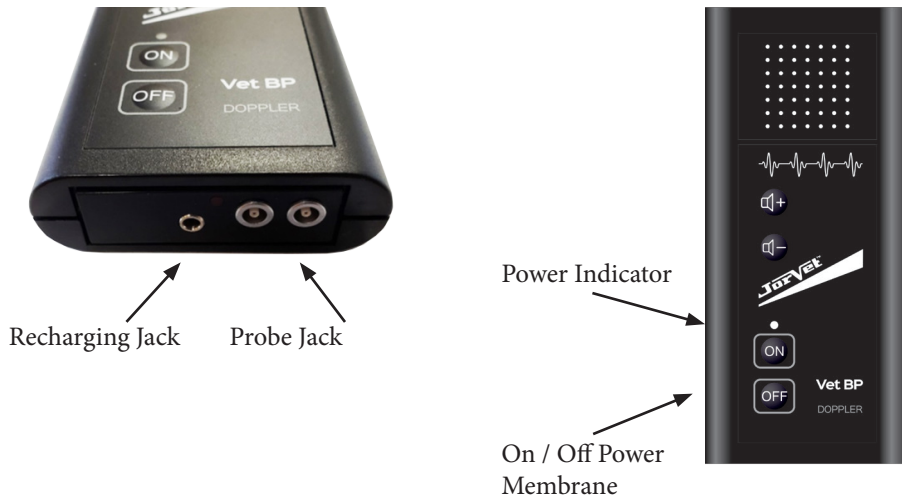
## Package Contents

- Doppler
- 8 MHz Transverse Linear Probe
- AC Adaptor
- Sphygmomanometer
- BP Cuffs (Set of 5)
- Headphones
- Ultrasound Gel
- Storage and Carrying Case



## Getting to Know Your Doppler

The pocket size Doppler veterinary blood flow detector is a simple device enabling a wide range of easy and reliable diagnosis of blood flow in the vessels, auscultation on very small animals, and blood pressure measurement.



## Operating Instructions

During transport, the probe is disconnected from the main unit. The push-pull connectors of the probe are connected on the side of the Doppler. The pair of connectors are symmetrical and, generally, can be connected in any order. The self-latching mechanism of the connectors protects against accidental disconnect of the probe. To disconnect, always pull by the metal part of the connector, never pull on the cord!

The JorVet BP Doppler is easy to use and was designed with simplicity in mind. It has minimum controls – volume up/down and power on/off.

To turn on the device, press the ON button. To turn the device off, press the OFF button. To increase the volume, press the UP arrow button. To decrease the volume, press the DOWN arrow button.

The continuous green LED light indicates that the unit is powered on. A pulsating green LED light indicates that the batteries should be recharged. When the unit hasn't been used for 4 minutes or the battery is low, the unit will power off automatically. To charge the battery, plug the AC adaptor into the mini-jack on the Doppler unit and plug the AC adaptor into an appropriate electrical outlet. The LED light should shine RED while the battery charges. During charging, the red light becomes weaker and will disappear when the battery is fully charged. A full battery charge time is 15 hours.

The mini-jack socket is made to accept the charging cable as well as the headphones. The headphones allow the user to listen to the pulses privately. This is convenient if the Doppler is being used in a noisy room or if the sounds from the Doppler frighten the patient.

Blood Pressure Measurement Instructions

## Blood Pressure Measurement Instructions

1. Determine where you would like to obtain the blood pressure and gently position the patient so you can easily access the artery. Common locations to obtain blood pressure on pets is on the forelimb, using the ulnar artery above the metacarpal pad; the hind limb, using either the saphenous artery above the metatarsal pad or the dorsal pedal artery on the front of the metatarsals; or the coccygeal artery located on the underside of the tail.
2. Place appropriately sized cuff above the vessel to be used. Once the cuff is placed, ensure that it is in good condition. Attach the sphygmomanometer and gently inflate and deflate the cuff to verify that it holds pressure.
3. Shave the hair over the vessel or wet the hair with alcohol. Ensuring the probe has good contact with the skin will provide the best possible sound. Excess hair can block or mute the signal from the probe, making it difficult to hear.
4. Apply a small amount of ultrasound gel to the Doppler probe. The gel conducts the sound from the artery so the probe can receive it. Too much gel will make the probe slippery and difficult to handle; too little gel will not conduct the sound properly. Place the probe with gel on it over the vessel. Don't press too hard as excessive pressure can occlude the vessel. A swishing sound should be heard when the probe is placed properly. Move the probe slightly over the vessel until you achieve the best sound.
5. Occlude the vessel by slowly inflating the cuff with the sphygmomanometer until you can no longer hear pulses. Inflate the cuff a little bit more after the pulse sounds are no longer heard. Slowly deflate the cuff while watching the dial on the sphygmomanometer. When the sound of the pulses returns, the number the needle on the sphygmomanometer's dial is pointing to is the systolic blood pressure.
6. As the user continues to deflate the cuff, a diastolic pressure can be obtained by noting the position of the needle on the dial when a change in the Doppler's tonality is heard. Obtaining a diastolic pressure reading requires a lot of experience and good operating conditions.
7. Ideally, the user will obtain 3-5 blood pressure readings to verify accuracy. Always deflate the sphygmomanometer completely and wait about 15-30 seconds in between readings to allow for normal blood flow through the limb. Failure to do this can lead to falsely high readings. Never leave the cuff inflated when not actively obtaining a blood pressure reading!

## Specifications

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|--------------------------|------------------------|
| Ultrasonic Frequency     | 8 MHz                  |
| Audio output-loudspeaker | >200mW                 |
| Frequency Response       | 300 Hz-6 kHz           |
| Rechargeable battery     | 3 X 1.2 V, 950 mAh     |
| Charger                  | 9V 150 mA, 3.5 mm jack |
| Operating Time           | Approx. 6 hr           |
| Charging Time            | 15 hr                  |
| Dimensions               | 175 X 80 X 25 mm       |
| Weight with battery      | 300 g                  |
| Headphone acoustic       | Mini jack 3.5 mm       |



