



## Quick Start Guide for the AliveCor Veterinary ECG/Heart Monitor - Universal Adaptor

### **CAUTION**

For veterinary use only. Not cleared for human use.

### **PRODUCT DESCRIPTION**

The AliveCor Veterinary ECG/Heart Monitor Universal Adaptor is a mobile, clinical-quality veterinary electrocardiogram (ECG) recorder for use by both veterinarians and animal owners, on dogs, cats, horses and other species. It consists of 3 components:

1. The Veterinary ECG/Heart Monitor fixes onto any iPhone. Electronics and sensors are used to collect ECG data and transmit it to the iPhone. ("Hardware")
2. The AliveECG Vet Mobile application (App) used to collect, view, save and wirelessly transmit the ECG data to the AliveCor online servers. ("Software")
3. A user-supplied Apple iPhone. (iPhone must be purchased separately; not supplied by AliveCor)

The Veterinary Heart Monitor enables the veterinarian or animal owner to:

- Collect and view single-lead ECG data using any Apple iPhone
- Store ECG data on the iPhone

- Wirelessly transmit ECG data to the AliveCor online server using a Wi-Fi or cellular data connection
- Access ECG data stored on the AliveCor server from anywhere in the world (where the internet is accessible)

Expectations of the Veterinary ECG/Heart Monitor:

- This device measures heart rate and heart rhythm only
- This device does not detect or measure all heart rate, heart rhythm and heart waveform changes, especially those related to ischaemic heart conditions

### **PRECAUTIONARY INFORMATION**

The Veterinary ECG/Heart Monitor is intended to be used by licensed veterinary professionals or animal owners to obtain single-lead electrocardiogram (ECG) rhythms from dogs, cats, horses and other species.

### **General Warnings and Precautions**

- Animal owners should always consult their veterinarian if they notice changes in their animal's conditions, regardless of measurement results
- The device should not be used in conjunction with water or in a wet environment
- Do not take measurements in a location where the unit will be exposed to strong electromagnetic forces, such as near an arc welder, high-power radio transmitter etc.

### **Complications**

There are no known medical complications arising from use of the Veterinary ECG/Heart Monitor.

### **MAINTENANCE AND HANDLING**

#### **CAUTION**

Do not leave the two electrodes of the adaptor face down on a metal surface, as this will drain the battery. It is best to leave the adaptor face up when not in use.

Store the Veterinary ECG/Heart Monitor at room temperature and avoid contact with water. The Veterinary ECG/Heart Monitor should be stored in a dry place when not in use. The storage temperature range is -20 to 45°C (-4 to +113°F).

No maintenance of this system is required, except:

- The battery should be replaced when necessary
- Do not use batteries of a type other than 3V CR2016
- Be certain to insert the battery with correct polarity
- Do not otherwise disassemble, repair or modify the unit
- Do not record if the electrodes are dirty. Clean them first
- The electrodes should be cleaned using alcohol-based sanitiser before each use. Use non-abrasive cloth or cotton swab to ensure no scratching of the device electrodes
- Do not expose the unit to strong shocks or vibrations. Do not drop or step on the unit
- Do not use this unit in locations subject to high or low temperatures or humidity. It should be used within the temperature range of +10 to 40°C (+50 to 104°F) and between relative humidity (RH) of 30 and 85%
- Do not wash this unit with water

### **Storage**

Do not store the unit in:

- Locations exposed to direct sunlight
- Locations subject to high temperatures and high humidity
- Wet or damp locations where water may get on the unit
- Dusty locations
- Near fires or open flames
- Locations exposed to strong vibration
- Locations exposed to strong electromagnetic fields.

### **Important Safety Notes**

**THIS UNIT IS NOT DESIGNED OR INTENDED FOR COMPLETE DIAGNOSIS OF CARDIAC CONDITIONS.**

- Do not use this device with a defibrillator
- Do not use in the presence of flammable anaesthetics, drug or pressurised oxygen (such as in a hyperbaric)
- If you are not a veterinarian, do not attempt to diagnose or treat your animal based on the measurement result and analysis
- Always consult your veterinarian. Diagnosis or treatment performed by someone other than a licensed veterinarian may lead to deterioration in your animal's condition
- Do not use this device during an MRI scan

- Do not use this device on animals with sensitive skin or allergies
- When your animal experiences symptoms potentially related to heart disease, always consult your veterinarian, even if the measurements appear normal
- If the portion of the body where the electrode is applied has too much body fat, body hair, or very dry skin, a successful reading may not be possible.
- Do not expose the unit to static electricity. Always disperse any static electricity from your body before handling the unit
- Do not take measurements in a moving vehicle
- Keep out of reach of infants, small children, or anyone incapable of using the device properly
- Do not use for any other purpose than obtaining an electrocardiogram

### **PREPARING THE VETERINARY ECG/HEART MONITOR FOR USE**

Unpack the Veterinary ECG/Heart Monitor

1. Remove the Veterinary ECG/Heart Monitor from the box
2. Fix the Veterinary ECG/Heart Monitor onto the back of the iPhone using the adhesive pads supplied
3. Access the app store on the iPhone
4. Search for the app AliveECG Vet
5. Download and install the AliveECG Vet app

### **SET UP AN ALIVECOR ACCOUNT**

You will use your AliveCor account to transmit ECG data to the web and to access, print and save an animal's ECG data stored on the AliveCor server. An account can be set up either within the AliveECG Vet Mobile app or at <https://app.alivecorvet.com/login>

### **COLLECTING ECG DATA USING VETERINARY ECG/HEART MONITOR**

1. Remove any headphones that are attached to the iPhone and disconnect the iPhone from charging cable
2. Ensure the iPhone's microphone has been enabled for use with the AliveCor Vet app
3. Clean the two electrodes before each use, using a non-abrasive cloth or cotton swab, moistened with an alcohol-based sanitiser

4. Move away from similar types of products, such as audio and video products that could cause interference
5. Make sure the Veterinary ECG/Heart Monitor Universal Adaptor is properly attached to your iPhone
6. Using the iPhone, launch the AliveECG Vet app
7. To record the frontal precordial ECG:
  - Lay the animal down on its right side
  - Wet the intended use area on the left side of the animal's chest with alcohol (no shaving required in most cases). Do not apply alcohol or use if the area is irritated or wounded
  - In some cases, moving hair aside or even shaving the animal may be necessary to obtain a proper recording
  - Place the Monitor at a diagonal (~40° angle) on the chest, parallel to and above the long axis of the heart
  - Orient the monitor so the iPhone's round button is closer to the animal's head for proper polarity, otherwise the ECG will be displayed upside down
  - Using the AliveECG Vet app, follow instructions to begin recording
  - Apply firm, even pressure during ECG collection
  - Adjust settings within the app to allow for shorter or longer recordings
  - When the recording is completed, it will automatically be stored on the device and will be transmitted securely to the cloud



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#### **VIEWINGS RECORDED ECGS**

Previously recorded ECGs can be viewed within the AliveECG Vet mobile application