# CardioPet ECG Device and CardioPet Software

## User Guides

CardioPet ECG Device CardioPet Software for Windows PC CardioPet App for Android Mobile Device CardioPet App for Apple iPad Integrating an App with IDEXX Web PACS or IDEXX-PACS ECG Quality and Troubleshooting

**Note:** Most of the information in this guide applies to all models of the CardioPet\* device (models 00–05). However, some sections identify functionality specific to the new 05 model. To determine the your device model, refer to the label on the back.



#### Proprietary rights notice

Information in this document is subject to change without notice. Companies, names, and data used in examples are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic, mechanical, or otherwise, for any purpose, without the express written permission of IDEXX Laboratories. IDEXX Laboratories may have patents or pending patent applications, trademarks, copyrights, or other intellectual or industrial property rights covering this document or subject matter in this document. The furnishing of this document does not give a license to these property rights except as expressly provided in any written license agreement from IDEXX Laboratories.

© 2023 IDEXX Laboratories, Inc. All rights reserved. • 06-0003888-07

\*CardioPet, IDEXX-PACS, IDEXX Web PACS, and VetMedStat are trademarks or registered trademarks of IDEXX Laboratories, Inc. or its affiliates in the United States and/or other countries. All other product and company names and logos are trademarks or registered trademarks of their respective holders.

# Contents

| CardioPet ECG Device  | 4  |
|---|----|
| Connecting batteries and cable  | 6  |
| Preparing the patient and attaching clips                                 |    |
| Maintenance and specifications  | 10 |
| CardioPet Software for Windows PC   | 11 |
| Installing the CardioPet software and establishing a Bluetooth connection |    |
| Working with ECGs in the CardioPet app                                    | 17 |
| CardioPet App for Android Mobile Device                                   | 21 |
| Minimum requirements  | 23 |
| Installing the CardioPet app and establishing a Bluetooth connection      |    |
| Entering ECG viewer settings  |    |
| Working with ECGs in the CardioPet app                                    | 27 |
| CardioPet App for Apple iPad  | 29 |
| Minimum requirements  |    |
| Checking compatibility  |    |
| Configuring general iPad settings   |    |
| Installing the CardioPet app and configuring app settings                 |    |
| Configuring ECG viewer settings   |    |
| Working with ECGs in the CardioPet app                                    | 37 |
| Integrating the CardioPet App with IDEXX Web PACS or IDEXX-PACS           | 39 |
| Integrating the CardioPet application with IDEXX Web PACS or IDEXX-PACS   | 40 |
| ECG Quality and Troubleshooting   | 41 |
| Examples of diagnostic ECGs   |    |
| ECG Quality Indicator tool  |    |
| Diagnostic ECG checklist  |    |
| Troubleshooting ECGs  |    |
| Additional troubleshooting tips   | 49 |
| If you need help  | 50 |

# CardioPet ECG Device

User Guide

# Contents

# How to identify your CardioPet model

#### To identify your CardioPet model:

Turn over your CardioPet\* ECG Device to view the specifications, including the model number. The model number is the last two digits of the product number, as shown below.

Please use the model's corresponding instructions when using this guide.

| Manufactured for IDEXX in Germany                  | defibrillators |
|--|----------------|
|  | 06012          |
| IDEXX Laboratories, Inc. Contains FCC ID: SQG-EWB1 |                |

#### To insert batteries into the CardioPet device and connect the cables:

1. Insert two AA batteries (included) into the back of the device.

WARNING: Never use rechargeable batteries. They may cause a fire hazard. Always use nonrechargeable alkaline batteries.

- 2. Attach a clip to each of the four cables.
- 3. Plug the single end of the cable into the CardioPet device, aligning the arrow with the triangle on the back of the device, as shown below.

Note: To disconnect the cable, pull the outer cylinder of the connector to release the lock.



## Turning the device on/off (models 00–04)

- To turn on the CardioPet device, press the power button <sup>(1)</sup>.
   The power light on the right side of the device will illuminate.
- To turn off the device, press the power button again. Note: The device will turn off automatically after 5 minutes of inactivity.

### Turning the device on/off (model 05 only)

0

To turn off the device, press the power button again.
 Note: The device will turn off automatically after 5 minutes of inactivity.

### CardioPet device lights and what they mean

The Bluetooth\* light to the left of the power button will illuminate when the CardioPet device is streaming to a designated device in the CardioPet app or software.



## Resetting the CardioPet Bluetooth pairing database

**CardioPet models 00–04:** Press the power button for approximately 8 seconds until the connection LED illuminates. Release the button and briefly push it again. This resets the pairing database.

**CardioPet model 05:** Press the power button for approximately 10 seconds until the power LED starts blinking. Release the button. This resets the pairing database. **Note:** The CardioPet 05 device automatically connects to an iPad only if the iPad was the last device paired to the CardioPet device. For example, if the device was last paired to a PC, the device will not attempt to connect automatically to the iPad. In order to achieve an automatic connection again, the pairing must be renewed.

# Preparing the patient and attaching clips

#### To prepare the patient and attach clips:

1. Place the animal on a padded surface in right-lateral recumbency.

**Note:** The patient can also stand upright or be in sternal position; however, be sure to note these positions in the patient history when you submit the case.

2. Liberally apply alcohol to each limb, 1''-2'' below the elbows and knees.

3. Attach the CardioPet\* Comfort Clips, being sure to part the fur for good skin contact.

Black: Left front leg Red: Left rear leg

White: Right front leg Green: Right rear leg

**IMPORTANT:** Make sure that the patient's limbs, the cables, and the clips do not touch one other or touch metal. For more information, review or print this poster that explains how to prepare a patient for an electrocardiogram (ECG).

#### To attach clips for a chest lead ECG:

A chest lead may be helpful if the P-waves are indistinct in lead II.

- 1. Place all clips as described in the previous section, except the black clip.
- 2. Place the black clip on the **left** side of the chest between the fourth and fifth ribs, wherever the heartbeat is strongest with touch or auscultation.

When you record an ECG with the clips in this position, lead I will appear as the chest lead.

3. Add "Chest lead included" in the patient history when you submit the case on vetmedstat.com.

# Maintenance and specifications

## Cleaning and maintaining the CardioPet device

Clean the exterior of the device using a paper towel moistened with isopropyl alcohol.

### Replacing and recycling batteries

- The CardioPet device uses two AA alkaline (nonrechargeable) batteries.
- Remove the batteries if the device will not be used for an extended period.
- To monitor battery status, note the battery indicator in the CardioPet software menu bar:

Battery life is adequate 🛛 👫 Battery change is needed

**Note:** On the CardioPet 05 model, the right/power LED indicator blinks when the battery is low.



This symbol is placed in accordance with the European Union Directive 2002/96 on Waste Electrical and Electronic Equipment (the WEEE Directive). If disposed of within the European Union, this product should be treated and recycled in accordance with the laws of your jurisdiction implementing the WEEE Directive. For additional information, visit idexx.com/weee.

### **Specifications**

#### **CardioPet device:**

- Sampling rate: 500 Hz each channel
- Signal frequency range: 0.05 Hz to 100 Hz<sup>+</sup>
- Filter type: Digital
- Channels: 2 according to 3 or 6 vectors
- Operating range: Approximately 100 m (clear range)
- Operating temperature: 8°C to 45°C (46°F to 113°F)
- Ambient relative humidity: 25% to 80% without condensation
- Atmospheric pressure: 700 hPa to 1070 hPa

<sup>†</sup>The frequency range refers to the CardioPet device. The resulting frequency range depends on the specific filters implemented in the software.

#### **Batteries:**

Chemistry: Alkaline (zinc-carbon dry cell) Type: AA Rechargeable: No Weight: 23 g

# CardioPet Software for Windows PC

User Guide

# Contents

| Installing the CardioPet software and establishing a Bluetooth connection | 13 |
|---|----|
| Minimum PC requirements   | 13 |
| Installing the CardioPet software   | 13 |
| Pairing the CardioPet device with the CardioPet software                  | 14 |
| Entering ECG viewer settings  | 16 |
| Working with ECGs in the CardioPet app                                    | 17 |
| Streaming and recording an ECG  | 17 |
| Selecting the patient and saving the ECG                                  | 18 |
| Submitting an ECG to VetMedStat   | 19 |

**IMPORTANT:** This section applies only to systems that are not integrated with the IDEXX-PACS\* Imaging Software or IDEXX Web PACS\* software. Contact IDEXX Telemedicine Consultants at 1-800-726-1212 for additional information about integration.

## **Minimum PC requirements**

- Device ports: USB 2.0 or later
- Operating system: Windows\* 10 or later (32- or 64-bit)
- RAM: 4 GB
- Hard drive: 100 GB
- Internet connection

#### Installing the CardioPet software

 Download and install the CardioPet\* ECG Device software from idexx.com/telemedicineresources. For assistance, contact IDEXX Telemedicine Consultants at 1-800-726-1212 or email telemedicinesupport@idexx.com.

**Note:** Some computers require administrative rights for downloading software. If you receive an error when downloading the CardioPet software, contact your practice's system administrator or IT person for assistance.

2. When asked to specify your clinic ID, enter the Account Number from your IDEXX billing statements, as shown below. The Account Number consists of numbers only.

|                        | BILI                     | LING STATEMENT                        |
|------------------------|--------------------------|---------------------------------------|
|                        | View/Pay Online:         | http://idexx.billtrust.com            |
| LABORATORIES           | Enrollment token:        | ABC DEF GHI                           |
| Account Number: 123456 | This Statement Covers Ac | tivity From July 1st - July 31st 2016 |
| Billing Address        | Previous                 | s Balance: 4,830.96                   |
| IDEXX ANIMAL HOSPITAL  | Payments, Credits, & Ad  | justments: -2,704.52                  |
| WESTBROOK ME 04092     | F                        | Purchases: 1,999.55                   |
|                        | Balance Due on 08        | 3/25/2016: 4,125.99                   |

## Pairing the CardioPet device with the CardioPet software

Pairing establishes wireless communication between the CardioPet device and the software. In most cases, you will need to pair the device only once.

**Note:** The device can connect to only **one** instance of the CardioPet software at a time. Close any other open CardioPet applications (including the CardioPet app on a mobile device, if using).

#### First, check for wireless capability on your computer:

1. In the taskbar (usually in the lower right corner of the monitor), click the **up arrow** to display hidden icons, and then look for the presence of the **Bluetooth**\*<sup>(3)</sup> icon.



Alternatively, check your computer's Device Manager for **Bluetooth** or **Bluetooth Radios**.



2. If the icon or radios option is **not** present, follow the instructions in the package you received from IDEXX to install the Bluetooth adapter and appropriate ASUS\* drivers before continuing.

**IMPORTANT:** If the adapter is needed, it must remain connected to your computer at all times. Removing the adapter may result in your CardioPet device becoming unpaired from the CardioPet software.

#### Second, pair the CardioPet device with the CardioPet software:

- 1. Start the CardioPet software, and then select **Settings** in the top left corner.
- 2. Select Telemedicine.

| CardioPet   |  |      | <br>- | D | × |
|---|--|------|-------|---|---|
| ←<br>☆ CardioPet Settings                           | Telemedicine   |      |       |   |   |
| Telemedicine<br>Bluetooth<br>Recording Time: 30 sec | VetMedStat User Name * STC-0007                                      | Ø    |       |   |   |
| Weight Unit: Lb<br>Quality Indicator                | VetMedStat Password *  | Ø    |       |   |   |
| DICOM<br>About                                      | VetMedStat URL * ps://api.vetmedstat.com/vmsintegrations/vmstms.asmx | Ø    |       |   |   |
|   | Cancel   | Save |       |   |   |

- Complete the VetMedStat User Name and VetMedStat Password fields, using your practice's VetMedStat\* account information. The account name is three letters followed by four numbers. The password is case sensitive.
- 4. Enter the VetMedStat URL: https://api.vetmedstat.com/vmsintegrations/vmstms.asmx.
- 5. Press the **Power** button (1) on the front of the CardioPet device.
- 6. Under CardioPet Settings in the top left corner, click **Bluetooth**.

| ሓ CardioPet            |                      |
|------------------------|----------------------|
| ←                      | Bluetooth 9          |
| CardioPet Settings     |                      |
| Telemedicine           |                      |
| Bluetooth              | <b>*</b> CP140900004 |
| Recording Time: 60 sec |                      |
| Weight Unit: Lb        | X CP171203925        |
| Quality Indicator      |                      |
| DICOM                  |                      |
| About                  |                      |
|                        |                      |

- 7. If no device is listed in the Bluetooth section, tap **Refresh** (assuming Bluetooth technology is enabled).
- 8. Select the device name that starts with the letters **CP** and matches the serial number on the back of the device. Refreshing may take a few minutes the first time.

9. Enter these settings:

Recording Time: Select the recording duration you prefer (30 or 60 seconds).

Weight Unit: Select the weight units you prefer (Kg or Lb).

**Quality Indicator Species Selection**: Select **Always Ask Species** unless all ECGs will be performed on just one of the listed species. This feature will prompt a request for species before each ECG, which allows CardioPet to record the best possible ECG.

10. Tap **the back arrow** at the top left side to exit Settings.

Note: In Settings, you can select About to find the CardioPet model, Terms of Use, and Privacy Policy.

## **Entering ECG viewer settings**

| 🖟 CardioPet              |              |
|--------------------------|--------------|
| $\leftarrow$             | Diaplay Type |
| KECG Tools               | Display Type |
| Display Type: Goldberger | Single Lead  |
| Paper Speed: 25 mm/sec   | Single Lead  |
| Gain: 5 mm/mV            | Einthoven    |
| Heartrate:               |              |
| Heartbeat:               | Goldberger   |
| Alerts:                  |              |
| Grid: fine               |              |
| Save to Pdf              |              |
|                          |              |

- 1. To access the ECG Viewer Settings screen, click **ECG Tools** at the top left side of the CardioPet app. These settings apply to how the ECG is viewed onscreen and do not impact the saved ECG file.
- 2. Set the following items to your viewing preferences:
  - Display Type: Select from Single Lead, Einthoven (3 leads), or Goldberger (6 leads)
  - Paper Speed: Scroll to see all speed options and select the desired setting (50 mm/sec is recommended).
  - Gain: Select from 2.5 mm/mV, 5 mm/mV, or 10 mm/mV (recommended)
  - Show Heartrate: When this feature is turned on, the CardioPet app shows a calculation of the patient's heart rate in the top left corner of the app.
  - Play Heartbeat: When this feature is turned on, the CardioPet app makes an audible beep to the rhythm of the heart rate.
  - Grid: Choose between fine, medium, coarse, or no gridlines behind the ECG tracing in the app.
- 3. Click the back arrow at the top left side of the screen.

## Streaming and recording an ECG

- 2. Turn on the CardioPet device. When the wireless communication light turns on, the ECG starts streaming automatically in the CardioPet app.
- 3. Click **New ECG** in top left corner of screen.
- 4. If prompted, select the patient's species.



- 5. Prepare the patient. See "Preparing the patient and attaching clips" for additional details.
- 6. When the ECG tracing is diagnostic, tap **Start Recording** at the bottom right of the screen. See "Diagnostic ECG checklist" for more information.

**TIP:** On CardioPet device models 02 and newer, you can also lightly depress the power button on the CardioPet device to start recording.



The livestream and recording stop automatically once the app records the ECG for 30 or 60 seconds (depending on your setting).



7. To turn off the CardioPet device, press and hold the power button for about 5 seconds; the device will also turn off automatically after 5 minutes of inactivity.

**Note**: The ECG must be at least 20 seconds long. If the Recording e icon is tapped while recording is in progress, you may receive a Short ECG warning.

TIP: To discard a recorded ECG, click **Delete** in the top right corner of the screen.

#### Selecting the patient and saving the ECG

1. At the bottom right side of the CardioPet app, click **Select Patient & Save**. The Local Patients window opens.

| ÷                    | Local Patients                                |   |
|----------------------|---|---|
| Current Patients     | Local Fallents                                |   |
| Local Patients       |   |   |
| Select from Worklist | Search by Patient Name or ID                  | Q |
| New Patient          | MOXIE WHITE 1232<br>Canine Akita, 4Y4Mo, 32Lb |   |
|                      | MOXIE WHITE 123456<br>Canine , 4Y4Mo, 32Lb    |   |

- 2. Assign the ECG to an existing patient or to a new patient as follows:
  - **Existing patient**: Tap the patient name in the Local Patients list, and tap **Save** in the Confirm Patient window.
  - **New patient**: Click **New Patient** in the left panel of the Local Patients window and complete all fields. **TIP**: Entering the date of birth in the Birthday field calculates the patient age and vice versa.

| ←                    | New Patier       | nt              |
|----------------------|------------------|-----------------|
| Local Patients       | Patient Name*    | Patient ID*     |
| Select from Worklist | Patient Name     | Patient ID      |
| New Patient          | First Name       | Last Name*      |
|                      | Owner First Name | Owner Last Name |
|                      | Species          | ❤<br>Weight     |
|                      | Male             | × II            |
|                      | Birthday         | Age             |
|                      | ΜΜ/ΥΥΥΥ          | Y               |

3. (Optional) To record an additional ECG, tap **New ECG** in the upper left corner of the screen.

#### Notes:

- Patient ID must be unique.
- Using the patient ID from your practice management system is recommended. Be sure to check with your practice management system provider to determine whether a patient ID is in use. Settings may need to be configured to display hidden IDs.
- If your practice management system does not provide a patient ID, you can add a letter, a number, or the patient's name to the client ID to create a unique patient ID.

## Submitting an ECG to VetMedStat

- 1. To locate a previously recorded ECG, tap **Saved ECGs** at the top left of the CardioPet app main screen.
- 2. Tap the desired ECG in the Recent ECGs list, and then tap **Close**.
- 3. When the desired ECG is visible on the screen, tap **Start a Telemedicine Case** <sup>29</sup> at the bottom right side of the app.



- 4. In the Upload window, select one of the following:
  - **Finish Now**: To open vetmedstat.com, where you can complete the case immediately.
  - **Finish Later**: To upload the ECG without opening vetmedstat.com. You must log on to vetmedstat.com later to complete the case. Use this option if there is a case already started with other image files.
  - **Cancel**: Closes the window.

**TIP:** If there is no internet connection available when you tap an Upload option, a No Network error message opens. Tap **OK** to queue the request for automatic retry later.

| No Net  | work  |
|---|---|
| There is currently no<br>Shall I queue you<br>automatically retry | network available<br>ur request and<br>y at a later time? |
| Click OK to If I<br>your red                                      | shall queue<br>quest.                                     |
| Cancel  | ОК  |

# CardioPet App for Android Mobile Device

User guide

# Contents

| Minimum requirements   | 23 |
|--|----|
| Installing the CardioPet app and establishing a Bluetooth connection | 24 |
| Preparing the tablet   | 24 |
| Installing the app   | 24 |
| Pairing the CardioPet ECG Device and configuring settings            | 24 |
| Entering ECG viewer settings   | 26 |
| Working with ECGs in the CardioPet app                               | 27 |
| Streaming and recording an ECG                                       | 27 |
| Selecting the patient and saving the ECG                             | 27 |
| Submitting an ECG to VetMedStat                                      | 28 |

**IMPORTANT:** This section applies only to systems that are **not** integrated with the IDEXX-PACS\* Imaging Software or IDEXX Web PACS\* software. Contact IDEXX Telemedicine Consultants at **1-800-726-1212** for additional information about integration.

- The tablet's Android\* operating system must be version 7.1 or later.
- IMPORTANT: Although the CardioPet\* App for Android\* Mobile Device should be compatible with Androidbased tablets, we cannot guarantee compatibility with every Android device. Please contact IDEXX Telemedicine Consultants to validate compatibility.
- If this is a new Android device, follow the instructions that came with the device to complete its initial setup before proceeding.
- An internet connection is needed for installing the app, uploading an ECG file from the CardioPet app to vetmedstat.com, and submitting a case directly on vetmedstat.com.
- A Google\* account is needed to download apps from the Google Play\* store.

# Installing the CardioPet app and establishing a Bluetooth connection

### Preparing the tablet

- 1. On the tablet, go to the device settings (usually accessed by tapping  $\frac{Q}{Q}$ ).
- 2. Verify that Wi-Fi is enabled and connected.
- 3. Update the screen timeout to **30 minutes** (or your preferred time, but more than 1 minute).
- 4. Confirm that the date, time, and time zone are set accurately for your location.
- 5. Verify that the Bluetooth\* connection is turned on.

#### Installing the CardioPet app

- 1. Tap the Google Play **>** icon.
- 2. Search for IDEXX CardioPet, and then choose Install.
- 3. Agree to the Terms of Service and Privacy Policy.
- 4. Open the CardioPet app when the installation is complete.

## Pairing the CardioPet ECG Device and configuring settings

**IMPORTANT:** Only one instance of the software or app can be used at a time; close all other open CardioPet applications including the CardioPet software on a Windows\* PC.

#### To pair the CardioPet\* ECG Device with the CardioPet app:

- 1. Turn on the Android tablet and tap 4 to start the CardioPet App.
- 2. Turn on the CardioPet device.
- 3. Tap **Settings** at the top left side of the CardioPet app.
- 4. Tap in each of the following fields, and then update the information as needed:

#### Telemedicine

- a. VMS User Name and VMS Password: Enter your practice's VetMedStat\* account information. The account name is three letters followed by four numbers. The password is case sensitive.
- b. VMS URL: api.vetmedstat.com (leave as is; do not change)

**Note:** Red check marks turn green when the Android device is connected to the internet and the VMS user name and password are entered correctly. For assistance, email teledmedicinesupport@idexx.com or call **1-800-726-1212**.

#### Bluetooth

- a. If no device is listed in the Bluetooth section, tap **Refresh** (assuming Bluetooth technology is enabled).
- b. Select the device name that starts with the letters **CP** and matches the serial number on the back of the device. Refreshing may take a few minutes the first time.
- c. Provide permission for Bluetooth technology to pair with the tablet, if prompted.
- d. If prompted to enter the Bluetooth Pairing Request PIN, enter **3001**.

| 5:26 PM 🖪 🖾 🞯 🋡 |                    |             |
|-----------------|--------------------|-------------|
| Close           | CardioPet Settings |             |
| TELEMEDICINE    |                    | $\sim$      |
| BLUETOOTH       |                    | CP171204249 |
| Refresh         |                    |             |
|                 |                    | CP171204249 |

#### General

- a. **Recording Time**: Select the recording duration you prefer (30 or 60 seconds).
- b. Weight Unit: Select the weight units you prefer (Kg or Lb).
- c. **Quality Indicator Species Selection**: Select **Always Ask Species** unless all ECGs will be performed on just one of the listed species. This feature will prompt a request for species before each ECG, which allows CardioPet to record the best possible ECG.
- 5. Tap **Close** at the top left side to exit Settings.

Note: In Settings, you can go to About to find the CardioPet model, Terms of Use, and Privacy Policy.

1. To access the ECG Viewer Settings screen, tap **Settings** at the bottom left side of the CardioPet app. These settings apply to how the ECG is viewed on the Android's screen and do not impact the saved ECG file.

| Close ECG View | Close ECG Viewer Settings |  |  |  |  |
|----------------|---------------------------|--|--|--|--|
| Display Type   | Goldberger 🗸              |  |  |  |  |
| Paper Speed    | 50 mm/sec 📎               |  |  |  |  |
| Gain           | 5 mm/mV 📎                 |  |  |  |  |
|                |                           |  |  |  |  |
| Show Heartrate |                           |  |  |  |  |
| Play Heartbeat |                           |  |  |  |  |
|                |                           |  |  |  |  |
| Grid           | none ∨                    |  |  |  |  |

- 2. Set the following items to your viewing preferences:
  - Display Type: Select from Single Lead, Einthoven (3 leads), or Goldberger (6 leads)
  - Paper Speed: Scroll to see all speed options and select the desired setting (50mm/sec is recommended).
  - Gain: Select from 2.5 mm/mV, 5 mm/mV, or 10 mm/mV (recommended).
  - **Show Heartrate**: When this feature is turned on, the CardioPet app shows a calculation of the patient's heart rate in the top left corner of the app.
  - **Play Heartbeat**: When this feature is turned on, the CardioPet app makes an audible beep to the rhythm of the heart rate.
  - **Grid**: Choose between fine, medium, coarse, or no gridlines behind the ECG tracing in the app.
- 3. Tap **Close** at the top left side of the screen.

## Streaming and recording an ECG

- 1. Open the CardioPet app  $\stackrel{\frown}{\longrightarrow}$  on the Android tablet.
- 2. Turn on the CardioPet device.

When the wireless communication light turns on, the ECG starts streaming automatically in the CardioPet app. (The Android tablet's Bluetooth setting must be **On**.)

**Note:** The first time an Android tablet is used with the CardioPet device, the device may need to be paired through the CardioPet app settings.

- 3. If prompted, select the patient's species.
- 4. Prepare the patient. See "Preparing the Patient" for additional details.

When the ECG tracing is diagnostic, tap **Start Recording** at the bottom right of the screen. See "Diagnostic ECG checklist" for more information.

**TIP:** On device models 02 and newer, you can also lightly depress the power button on the CardioPet device to start recording.

The livestream and recording stop automatically once the app records the ECG for 30 or 60 seconds (depending on your setting).

5. To turn off the CardioPet device, press and hold the power button for about 5 seconds; the device will also turn off automatically after 5 minutes of inactivity.

**Note:** The ECG must be at least 20 seconds long. If the **Recording** icon is tapped while recording is in progress, you may receive a Short ECG warning:



TIP: To discard a recorded ECG, tap **Delete** in the top right corner of the screen.

### Selecting the patient and saving the ECG

- 1. At the bottom right side of the CardioPet app, tap **Select Patient & Save** . The Local Patients window opens.
- 2. Assign the ECG to an existing patient or to a new patient as follows:
  - **Existing patient**: Tap the patient name in the Local Patients list, and tap Save in the Confirm Patient window.
  - **New patient**: Tap  $\bigoplus$  at the top right of the Local Patients window and complete all fields. TIP: Entering the date of birth in the **Birthday** field calculates the patient age and vice versa.

- 3. (Optional) To record an additional ECG, tap **Live ECG** in the upper left corner of the screen.
  - Patient ID must be unique. Using the patient ID from your practice management system is recommended. • Be sure to check with your practice management system provider to determine whether a patient ID is in use. Settings may need to be configured to display hidden IDs.
  - If your practice management system does **not** provide a patient ID, you can add a letter, a number, or the • patient's name to the client ID to create a unique patient ID.

Confirm Patient window

| Cancel        | Add Patient | Save      |
|---------------|-------------|-----------|
| Patient Name* | Sampson     |           |
| Patiant ID*   | 76542       |           |
| Patient ID    | 70043       |           |
| First Name    | Tamara      |           |
| Last Name*    | Darling     |           |
|               | 0           |           |
| Species       |             | Feline 🗸  |
| Breed         | Domestic Sh | orthair ∨ |
| Gender        |             | Male 🗸    |
| Weight        | 11          | lbs       |
|               |             |           |
| Birthday      | 04/2015     | 7         |
| Age           | Y 4 M 1     |           |

#### Add Patient window

#### Submitting an ECG to VetMedStat

- 1. To locate a previously recorded ECG, tap ECGs at the top right of the CardioPet app main screen.
- 2. Tap the desired ECG in the Recent ECGs list, and then tap Close.
- 3. When the desired ECG is visible on the screen, tap **Start a Telemedicine Case P** at the bottom right side of the app.
- 4. In the Upload window, select one of the following:
  - Finish Now: To open vetmedstat.com, where you can complete the case immediately. ٠
  - Finish Later: To upload the ECG without opening vetmedstat.com. You must log on to vetmedstat.com • later to complete the case. Use this option if there is a case already started with other image files.
  - Cancel: Closes the window.

TIP: If there is no internet connection available when you tap an Upload option, a No Network error message opens. Tap **OK** to queue the request for automatic retry later.

| No Ne                 | twork               |
|-----------------------|---------------------|
| There is currently no | o network available |
| Shall I queue yo      | ur request and      |
| automatically retr    | y at a later time?  |
| Click OK to If        | l shall queue       |
| your re               | quest.              |
| Cancel                | ОК                  |

# CardioPet App for Apple iPad

User Guide

# Contents

| Minimum requirements                                      | 31 |
|---|----|
| Checking compatibility                                    | 32 |
| Configuring general iPad settings                         | 33 |
| Installing the CardioPet app and configuring app settings | 35 |
| Configuring ECG viewer settings                           | 36 |
| Working with ECGs in the CardioPet app                    | 37 |
| Streaming and recording an ECG                            | 37 |
| Selecting the patient and saving the ECG                  | 37 |
| Submitting an ECG to VetMedStat                           | 38 |

**IMPORTANT:** This section applies only to systems that are not integrated with the IDEXX-PACS\* Imaging Software or IDEXX Web PACS\* software. Contact IDEXX Telemedicine Consultants at 1-800-726-1212 for additional information about integration.

- The CardioPet\* ECG Device must be **model 04** or later.
- An internet connection is needed for installing the app, uploading an ECG file from the CardioPet\* iOS App to vetmedstat.com, and submitting a case directly on vetmedstat.com from the iOS\* device.
- To download the CardioPet app from the App Store\*, an Apple\* ID is required.
- Your Apple\* iPad\* must have iOS\* 11 or later.
- **IMPORTANT:** Although the CardioPet App should be compatible with iPad devices, we cannot guarantee compatibility with every iOS device. Please contact IDEXX Telemedicine Consultants to validate compatibility.

Use the following resources to help identify your iPad model: Apple\* support or the Apple check-coverage page (checkcoverage.apple.com/)

Note: The CardioPet software cannot be used with an iPhone\*.

There are two ways to check whether the CardioPet app will work on your iPad:

• Refer to the CardioPet app Information box. It should say "Works on this iPad."

**To view the Information box:** Open the App Store  $\stackrel{\frown}{\hookrightarrow}$  on the iPad and search for **IDEXX CardioPet.** Tap on the app and scroll to **Information** to view compatibility.

| Filters V |  |                                     | Q idexx cardiopet               |                        |     |   |
|-----------|--|-------------------------------------|---------------------------------|------------------------|-----|---|
| -1        | IDEXX Car<br>Medical                   | dioPet                              |                                 |                        |     |   |
|           | View,<br>to Vet                        | record, and trai<br>MedSut® to reco | nsmit veterir<br>ive interpreti | ary ECGs<br>od results | 102 |   |
|           | 80_~                                   |                                     |                                 | 1-                     |     |   |
|           | nh                                     | -hh                                 | -h-                             | A                      | -4  |   |
|           |  | men                                 | -1-                             | -h-                    |     | N |
| Ň         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |                                     | ~~~                             | ~~~                    | ~   |   |
|           | ant                                    | -hh                                 | -1-                             |                        | A   |   |
|           | Garobarger L. 000005ani, 3             | innera                              | 200                             | Thorne                 |     |   |

## Information

Seller IDEXX DISTRIBUTION, INC.

Compatibility Works on this iPad

• Try to download the CardioPet app from the App Store. If the iPad and iOS versions are **not** compatible with the app, the app will not download successfully, and you may see error messages like these:

| Unable to Purchase                                     | Cannot Download App                                    |
|--|--|
| "IDEXX CardioPet" is not<br>compatible with this iPad. | "IDEXX CardioPet" isn't<br>compatible with this device |
| ОК   | ОК   |

**IMPORTANT:** If the iPad is new, first follow the instructions that came with the device to complete its initial setup, and then proceed with the steps below.

1. To access the iPad settings, tap **Settings** On the tablet screen.



2. In the Wi-Fi setting, verify that Wi-Fi is enabled and connected to a strong internet signal.

An internet connection is needed for installing the CardioPet app, uploading an ECG file from the CardioPet app to vetmedstat.com, and submitting a case to vetmedstat.com directly from the iOS device.

- 3. Connect Bluetooth\* technology to the CardioPet device as follows:
  - a. Turn on the CardioPet device.
  - b. In the iPad Settings, tap **Bluetooth** and ensure it is set to **On.**
  - c. Select the device name that starts with the letters CP.

| 11:08 AM We | d Apr 24    |            |  | <b>奈</b> 98% <b>■</b> |
|-------------|-------------|------------|--|-----------------------|
|             | Settings    |            | Bluetooth  |                       |
| ≻ Airp      | lane Mode   | $\bigcirc$ |  |                       |
| 🛜 Wi-I      | FI          | JTDFIOS    | Bluetooth  |                       |
| 😽 Blue      | tooth       | On         | Now discoverable as "tdarling iPad iOS 11.3.0 JF8N". |                       |
|             | 1           | $\cap$     | MY DEVICES   |                       |
|             | •           | Q          | BT SPEAKER   | Not Connected 🧻       |
|             | e           |            | CP171203990  | Connected ()          |
| Noti        | fications   |            | JSBW-210   | Not Connected (i)     |
| 📢 Sou       | nds         |            |  |                       |
| C Do I      | Not Disturb |            | OTHER DEVICES $\beta_{re}^{N_{\rm B}}$               |                       |

d. Once the CP device appears under **My Devices**, turn off the CardioPet device by holding down the power button for about 5 seconds.

**Important:** If the CardioPet device will be paired with multiple devices, then Bluetooth technology should be disabled (turned off) on any iPad **not** currently being used with the CardioPet device. The CardioPet device can be used with only **one** Bluetooth-enabled device at a time.

**Note:** The CardioPet 05 device automatically connects to an iPad only if that iPad was the last device paired to the CardioPet device.

- 4. Specify general settings
  - a. **Software Update**: Check to see whether a software update is available; if it is, install it now. Updates often include important defect corrections and enhancements. Not having the most current iOS version may affect your CardioPet user experience.
  - b. Date & Time: Confirm that the date, time, and time zone are set accurately for your location.

| Settings                | General                |  |  |
|-------------------------|------------------------|--|--|
| Settings                | General                |  |  |
| Airplane Mode           |                        |  |  |
| ᅙ Wi-Fi JTDFIOS         | About                  |  |  |
| Bluetooth On            | Software Update        |  |  |
| VPN VPN                 |                        |  |  |
|                         | AirDrop                |  |  |
| Notifications           | Handoff                |  |  |
| Sounds                  | Multitasking & Dock    |  |  |
| C Do Not Disturb        |                        |  |  |
| Screen Time             | Accessibility          |  |  |
|                         |                        |  |  |
| General                 | iPad Storage           |  |  |
| Control Center          | Background App Refresh |  |  |
| AA Display & Brightness |                        |  |  |
| 🛞 Wallpaper             |                        |  |  |
| Siri & Search           | Keyboard               |  |  |
| Touch ID & Passcode     | Language & Region      |  |  |
| =                       | Dictionary             |  |  |

# Installing the CardioPet app and configuring app settings

- 1. Open the App Store do n the iPad, and search for **IDEXX CardioPet**.
- 2. Select the CardioPet app in the search results, and then tap GET.
- 3. When the installation is complete, tap **OPEN**.



- 4. Tap Accept to accept the Terms of Service and Privacy Policy.
- 5. Tap **Settings** at the top left side of the IDEXX CardioPet app.
- 6. Tap in each of the following fields, and then update the information as needed:
  - Telemedicine
    - VMS User Name and VMS Password: Enter your practice's VetMedStat\* account information. The account name is three letters followed by four numbers. The password is case sensitive. For assistance, email teledmedicinesupport@idexx.com or call 1-800-726-1212.
    - VMS URL: api.vetmedstat.com
  - General
    - **Time**: Select the recording duration you prefer (30 or 60 seconds).
    - Weight Unit: Select the weight units you prefer (Kg or Lb).
  - Quality Indicator Species Selection: Select **Always Ask Species** unless all ECGs will be performed on just one of the listed species. This feature will prompt a request for species before each ECG, which allows CardioPet to record the best possible ECG.

**Note**: Red checkmarks  $\bigotimes$  turn green  $\bigotimes$  if the iPad is connected to the internet and the VMS username, password, and VMS URL are entered correctly.

| Close                       | CardioPet Settings  |                | Close          | CardioPet Settings |
|-----------------------------|---------------------|----------------|----------------|--------------------|
| TELEMEDICINE                |                     |                | TELEMEDICINE   |                    |
| VMS User Name*              | Your IDEXX VMS user | 8              | VMS User Name* | Pbm-0001           |
| VMS Password*               | Your IDEXX VMS pass | 8              | VMS Password*  | ••••••             |
| VMS URL*                    | api.vetmedstat.com  | $\otimes$      | VMS URL*       | api.vetmedstat.com |
| GENERAL                     |                     |                | GENERAL        |                    |
| Recording Time 60 seconds 🗸 |                     | Recording Time | 30 seconds 🔍   |                    |
| Weight Unit Lb 🗸            |                     | Weight Unit Lb |                |                    |

7. Tap Close at the top left side to exit Settings.

Note: In Settings, you can go to About to find the CardioPet model, Terms of Use, and Privacy Policy.

# Configuring ECG viewer settings

1. To access the ECG Viewer Settings screen, tap **Settings** at the bottom left side of the CardioPet app. These settings apply to how the ECG is viewed on the iPad screen and do not impact the saved ECG file.



- 2. Set the following items to your viewing preferences:
  - Display Type: Select from Single Lead, Einthoven (3 leads), or Goldberger (6 leads)
  - Paper Speed: Scroll to see all speed options and select the desired setting (50mm/sec is recommended).
  - Gain: Select from 2.5 mm/mV, 5 mm/mV, or 10 mm/mV (recommended).
  - **Heartrate:** When this feature is turned on, the CardioPet app shows a calculation of the patient's heart rate in the top left corner of the app.
  - **Heartbeat**: When this feature is turned on, the CardioPet app makes an audible beep to the rhythm of the heart rate.
  - Alerts: When this feature is turned on, the CardioPet app provides alerts.
  - Grid: Choose between fine, medium, coarse, or no gridlines behind the ECG tracing in the app.
- 3. Tap **Close** at the top left side of the screen.

## Streaming and recording an ECG

- 1. Open the CardioPet app  $\stackrel{\frown}{\longrightarrow}$  on the iPad.
- Turn on the CardioPet device.
   When the wireless communication light turns on, the ECG starts streaming automatically in the CardioPet app. (The iPad Bluetooth setting must be **On.**)

**Note:** The first time an iPad is used with the CardioPet device, the device must be paired with Bluetooth technology on the iPad.

- 3. If prompted, select the patient's species.
- 4. Prepare the patient. See "Preparing the Patient" for additional details.
- 5. When the ECG tracing is diagnostic, tap **Start Recording** start **Recording** at the bottom right of the screen. See "Diagnostic ECG checklist" for more information.

TIP: You can also lightly depress the power button on the CardioPet device to start recording.

The livestream and recording stop automatically once the app records the ECG for 30 or 60 seconds (depending on your setting).

6. To turn off the CardioPet device, press and hold the power button for about 5 seconds; the device will also turn off automatically after 5 minutes of inactivity.

**Note**: The ECG must be at least 20 seconds long. If the **Recording** icon is tapped while recording is in progress, you may receive a Short ECG warning:



TIP: To discard a recorded ECG, tap **Delete** in the top right corner of the screen.

## Selecting the patient and saving the ECG

- 1. At the bottom right side of the CardioPet app, tap **Select Patient & Save** . The Local Patients window opens.
- 2. Assign the ECG to an existing patient or to a new patient as follows:
  - **Existing patient**: Tap the patient name in the Local Patients list, and tap **Save** in the Confirm Patient window.
  - **New patient:** Tap  $\textcircled{\bullet}$  at the top right of the Local Patients window and complete all fields. TIP: Entering the date of birth in the **Birthday** field calculates the patient age and vice versa.
- 3. (Optional) To record an additional ECG, tap Live ECG in the upper left corner of the screen.

#### Notes:

- Patient ID must be unique. •
- Using the patient ID from your practice management system is recommended. Be sure to check with your • practice management system provider to determine whether a patient ID is in use. Settings may need to be configured to display hidden IDs.
- If your practice management system does not provide a patient ID, you can add a letter, a number, or the • patient's name to the client ID to create a unique patient ID.

| Α       | dd Patient win             | dow         | Confirm Patient window |            |                 |             |
|---------|----------------------------|-------------|------------------------|------------|-----------------|-------------|
|         | Cancel                     | Add Patient | Save                   | Cancel     | Confirm Patient | Save        |
|         | Patient Name*              | Sampson     | Sampson                |            |                 | 0           |
|         | Patient ID*                | 76543       |                        | Patient Na | ime             | Sampson     |
|         | T dion 10                  | 10010       |                        | Patient ID |                 | 7654321     |
|         | First Name                 | Tamara      |                        | Client     | Tama            | ara Darling |
|         | Last Name* Darling         |             |                        |            |                 |             |
| Species |                            |             |                        | Species    |                 | Feline      |
|         |                            |             | Feline 🗸               |            | Domestic        | Shorthair   |
|         | Breed Domestic Shorthair 💚 |             | shorthair ∨            | Gender     |                 | Male        |
|         | Gender                     |             | Male 🗸                 | Age        |                 | 4Y1Mo       |
|         | Weight                     | 11          | lbs                    | Weight     |                 | 11Lb        |
|         | Birthday                   | 04/201      | 5 7                    |            |                 |             |
|         | Age                        | Y 4 M       | 1                      |            |                 |             |

#### Add Patient window

#### Submitting an ECG to VetMedStat

- 1. To locate a previously recorded ECG, tap ECGs at the top right of the CardioPet app main screen. Tap the desired ECG in the Recent ECGs list, and then tap **Close**.
- 2. When the desired ECG is visible on the screen, tap **Start a Telemedicine Case 2** at the bottom right side of the app.
- 3. In the Upload window, select one of the following:
  - Finish Now: To open vetmedstat.com, where you can complete the case immediately. •
  - Finish Later: To upload the ECG without opening vetmedstat.com. You must log on to vetmedstat.com • later to complete the case. Use this option if there is a case already started with other image files.
  - Cancel: Closes the window.

TIP: If there is no internet connection available when you tap an Upload option, a No Network error message opens. Tap **OK** to queue the request for automatic retry later.

#### No Network

There is currently no network available Shall I queue your request and automatically retry at a later time?

# Integrating the CardioPet App with IDEXX Web PACS or IDEXX-PACS

User Guide

Integrating a CardioPet application with the IDEXX Web PACS\* software or the IDEXX-PACS\* Imaging Software lets you keep ECGs, radiographs, and other digital images together in the same patient record in IDEXX-PACS. You can then submit the images to IDEXX Telemedicine Consultants (vetmedstat.com) as a single case.

Integration requirements:

- A CardioPet application installed on an eligible Windows\* PC, Android\* mobile device, or iPad\* tablet
- IDEXX-PACS software version 4.2.1 or later, and/or an IDEXX Web PACS subscription

Contact IDEXX Telemedicine Consultants at 1-800-726-1212 for additional information and/or to schedule a remote session with a representative who will help you set up the integration.

#### Sending ECGs to IDEXX Web PACS or IDEXX-PACS software

For instructions on sending ECGs to IDEXX Web PACS or IDEXX-PACS software, please refer to the document provided to you during your integration setup.

# Submitting a case from within the IDEXX Web PACS or IDEXX-PACS software

Refer to your IDEXX Web PACS or IDEXX-PACS online help ? for instructions on submitting cases to IDEXX Telemedicine Consultants (vetmedstat.com) from within the software. You can include radiographs, ultrasounds, and ECGs in a single submission.

**IMPORTANT:** For cardiology services, send only cardiac-specific images. If you include images for other areas of study, you must also select an applicable **Radiology** or **Dental** service.

# ECG Quality and Troubleshooting

User Guide

# Contents

| Examples of diagnostic ECGs 43                |
|---|
| ECG Quality Indicator Tool 44                 |
| Diagnostic ECG checklist                      |
| Troubleshooting ECGs                          |
| Indistinct P-waves and movement artifact 47   |
| Flat lines or indistinct complexes            |
| Blurry lines                                  |
| Small or absent P-waves                       |
| Inverted P-waves                              |
| Vertical red bar in the ECG tracing           |
| Crowded or overlapping complexes 48           |
| ECG tracing is not visible in the software 48 |
| Additional troubleshooting tips 49            |
| Case is not visible in vetmedstat.com 49      |

# Examples of diagnostic ECGs



The newest versions of the ECG software/app include an ECG Quality Indicator tool that provides real-time feedback on ECG quality and lead placement. The Quality Indicator changes the color of any potentially affected leads yellow and provides additional troubleshooting information.

If you have completed all troubleshooting steps and continue to receive the Quality Indicator error, you may close the alert and continue recording.

For more troubleshooting information, review the following:

|                             | ment ?  | 6   |                                |            |                    |      |
|-----------------------------|---|---|--------------------------------|------------|--------------------|------|
| ◀ TestFlight 1:37 PM Wed Se | ep 18   |   |                                |            | <del>ବ୍</del> ୮ 1: | 3% 💭 |
| Settings                    |   | CardioPet ECG   |                                | Saved ECG: | and Ca             | ases |
|                             | Close   | Lead Placement  |                                |            |                    |      |
| BPM                         | Possible Lead Placemen<br>Whoops! Something look<br>The leads are firmly conn<br>knees) with ample alcoho | It Issue<br>is funny. Please ensure that:<br>nected to the limbs, 1''-2'' below each joi<br>of gel.                           | int (elbows and                | ent        |                    | ×    |
| ave                         | If you've double checked<br>close this box to record a<br>please call technical supp                      | everything and are still seeing this messa<br>and submit the ECG Or, if you'd like help tr<br>port at <b>1-800-726-1212</b> . | iges, you can<br>oubleshooting |            | 1                  |      |
| Goldberger, 50              | 0mm/sec, 10mm/mV  | H   | Start Recordin                 | ng         |                    |      |

| 🔺 ECG Interfer     | rence 🕜 🗙   |  |                  |                  |
|--------------------|---|--|------------------|------------------|
| 1:34 PM Wed Sep 18 | 1 1 🔪 🛚 1 1 1   |  |                  | <b>२</b> 🕻 13% 🕞 |
| Settings           |   | CardioPet ECG  | Saved EC         | Gs and Cases     |
|                    |   |  |                  |                  |
|                    | A   |  | ECG Interference | <b>8</b> ×       |
| 92                 |   |  |                  |                  |
|                    |   |  |                  |                  |
| "                  | Close   | ECG Interference   |                  |                  |
| . [                |   |  |                  |                  |
| IAL                | Possible ECG Interference Is                                    | SSUE   |                  |                  |
|                    | - The clips are not touching of                                 | each other or metal  | rfaces           | $\sim$           |
|                    | - The patient is not moving, p                                  | panting or purring   |                  |                  |
|                    | If you've double checked eve                                    | rything and are still seeing this messa                                | ges, you can     |                  |
| aVR                | close this box to record and s<br>please call technical support | submit the ECG Or, if you'd like help tro<br>at <b>1-800-726-1212.</b> | oubleshooting    |                  |
|                    |   |  |                  |                  |
| Z                  |   |  |                  |                  |
| a)L                | 1 -   |  |                  |                  |
|                    |   |  |                  |                  |
| aVF                | In  |  | V                |                  |
|                    |   |  |                  |                  |
| Goldberger 50      | mm/sec. 10mm/mV   |  | Start Recording  |                  |
|                    |   | 11   | - ind flood unig |                  |

It is important that tracings submitted to our cardiology team are diagnostic. This means that:

- The P-waves are visible and distinct from motion artifact in lead II. The P-wave may be very small or invisible on leads I and III, especially in feline ECGs.
- The P-wave (if visible):
  - is positive (points upward) in leads I, II, and III.
  - is negative (points downward) in lead AVR.
  - may be either positive or negative in leads AVL and AVF.
- The ECG baseline is generally level.





P-wave

# **Troubleshooting ECGs**

### Indistinct P-waves and movement artifact

P-waves may be "washed out" by artifacts caused by panting, shaking, and vocalizing.



Feline ECG with indistinct P-waves caused by purring



Canine ECG with respiratory (panting) artifact

#### To reduce movement artifact:

- Move clips below the knees and elbows.
- Distract the patient by tapping gently on the nose or offering a treat out of a closed hand.
- Apply gentle pressure to the chest and/or legs.
- Reposition the patient (if patient is standing, place in right-lateral position, or the reverse).
- Record a chest lead to distinguish P-waves from movement artifacts.

#### Flat lines or indistinct complexes

Make sure clips have sufficient skin contact and alcohol saturation for conduction.



Flat lines and indistinct complexes

## **Blurry lines**

Make sure clips are secure and have sufficient alcohol saturation for conduction.



Blurry lines

#### Small or absent P-waves

Record a chest lead if P-waves are small, inconsistent, or absent. See "Positioning clips for a chest lead," for more information.

#### **Inverted P-waves**

If the P-wave is not positive in leads I, II, and III, or negative in lead AVR, ensure the leads are correctly plugged into the CardioPet\* ECG Device and the clips are attached to the correct legs. See "Connecting the batteries and cables" and "Preparing the patient" for more information.

#### Vertical red bar in the ECG tracing

A vertical red bar in the ECG tracing indicates a data integrity error. For example, the patient may be out of the device's transmission range. Try moving the device closer. Remove any obstacles between the device and the software.

#### Crowded or overlapping complexes

Gain may be too high or feed too slow. Try a gain of 10 mm/mV and a feed of 50 mm/s. See "Adjusting the ECG display" in the section for the computer or tablet you are using.

## ECG tracing is not visible in the software

#### Windows\* PC:

- Check that the wireless communication light is illuminated on the CardioPet device. If it is not, try restarting the device.
- In Bluetooth\* settings, remove the CardioPet device and then add it again. The pairing code is 3001.
- Make sure the correct serial number is in the CardioPet software (Settings > ECG Options).
- Restart the computer.
- If necessary, uninstall and reinstall the CardioPet software. **Note:** Some computers require administrative rights for downloading software. If you receive an error when downloading the CardioPet software, contact your system administrator or IT person for assistance.

#### Android\* or iOS\* device:

• Try enabling the connection to the CardioPet device again. Refer to the instructions in the section for your tablet type.

# Additional troubleshooting tips

### Case is not visible in vetmedstat.com

#### If the case was uploaded from a Windows PC:

- In the CardioPet software, select **Settings > Telemedicine**. Under **VetMedStat Account**, verify that the VetMedStat\* user name and password are correct.
- Verify that your PC has an Internet connection.

#### If the case was uploaded from an Android or an iOS device:

- Hold down the **\*Menu button**, and then tap **Settings** . Verify that the VetMedStat account number and password are correct and that the domain is **api.vetmedstat.com**.
- Verify that the device is connected to a Wi-Fi network with internet access.

# If you need help...

If you need help installing or using the CardioPet\* software, CardioPet\* app, or the CardioPet\* ECG Device:

- Contact IDEXX Telemedicine Consultants at 1-800-726-1212.
- Visit idexx.com/telemedicineresources.
- Email telemedicinesupport@idexx.com.



