
Bee Doctor Veterinarian User Manual - Holter



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Introduction

Your kit contains:

- A tablet with BeeDoctor application - a professional ECG application that will allow you to perform fast, efficient high-quality ECG examinations
- Bee - a tiny wireless monitoring and Holter device that supports peri-operative ECG monitoring and continuous recording of electrical activity over 24 hours

Setting up an account

Before you can use the mobile app, you must have a Beecardia account.

In order to sign up to the site and get a new account:

1. Browse to: <http://clinic.beecardia.com>
2. Click on "Create new account"
3. Choose "Veterinarian" account type
4. Fill all the relevant details
5. When done click on "Create account"

After signing up you will get an email to activate your account, please follow the instructions in that mail to finish the signup process.

Login to the application

In order to start using the application you first must login:

1. Please run BeeDoctor application on your tablet
2. Click on the "Login" button at the top right
3. Fill in the same email and password as you used in your site account (please see the ["Setting up an account"](#) section)
4. Press on "Submit"

Charging Bee

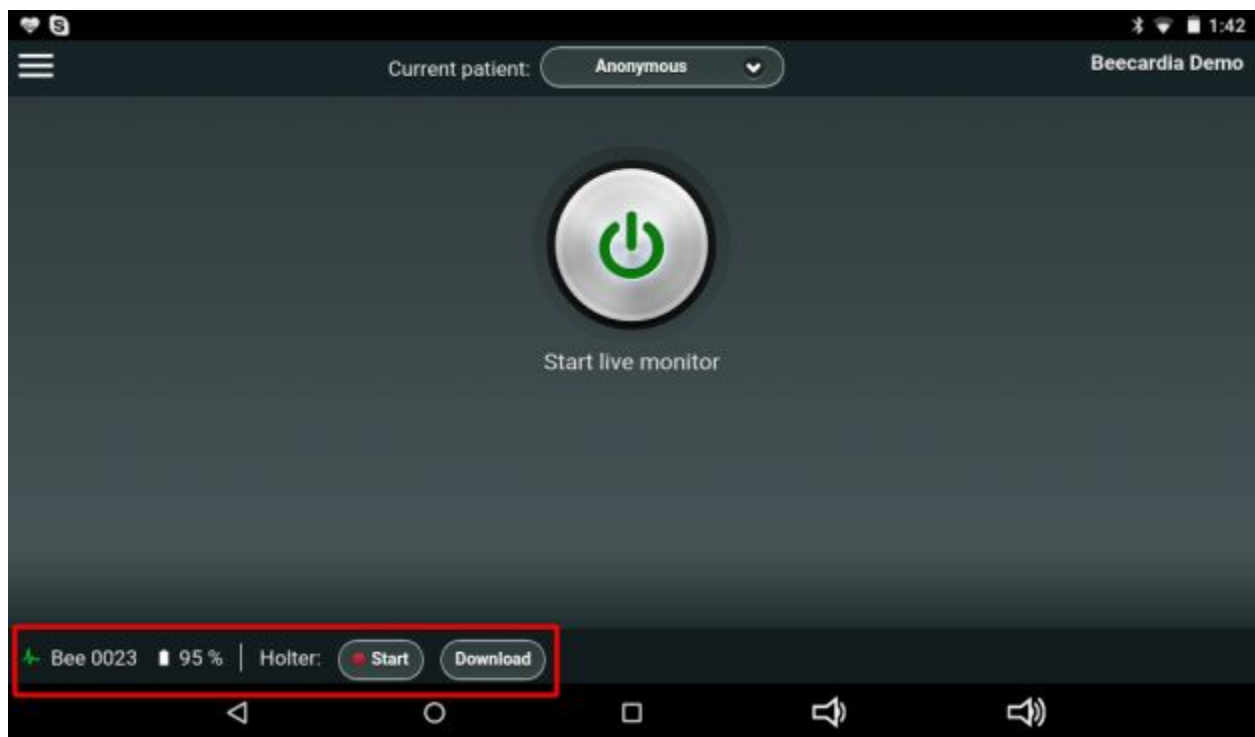
To charge the Bee device, please connect the charger to the USB port of your computer or other power source (220v). Connect the red and yellow leads of the Bee device to the red and orange contacts of the charger.

The Bee device is fully charged when the light on the device change to green.

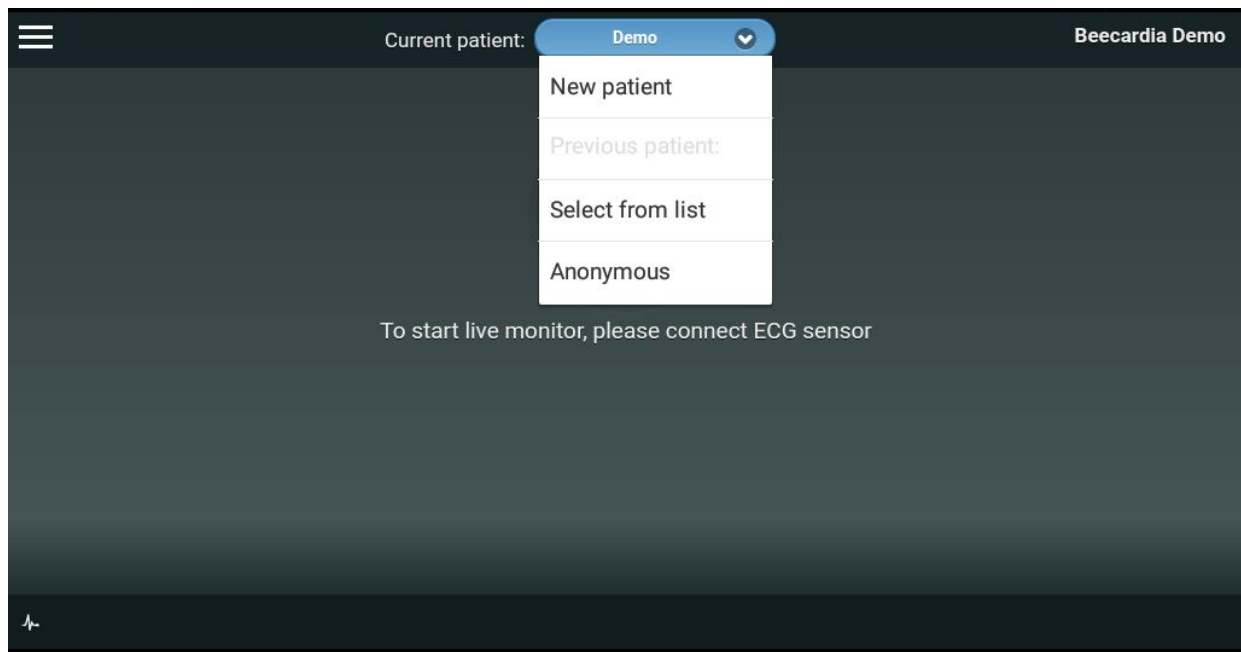
Connecting the device

In order to connect the Bee device please follow the following steps:

1. Please make sure that the device is charged (See "[Charging Bee](#)" section)
2. Go to the application homepage
3. Click on the Bee device button until the light on the device turns green
4. After a few seconds the device details should appear at the bottom of the page



Patient selection



New patient

You can create a new patient from the drop-down menu at the top of the homepage. After selecting "New Patient", fill in the patient details and press "Ok" to create the patient.

Select from list

This option allows you to select previous patient without having to re-enter their details.

Anonymous

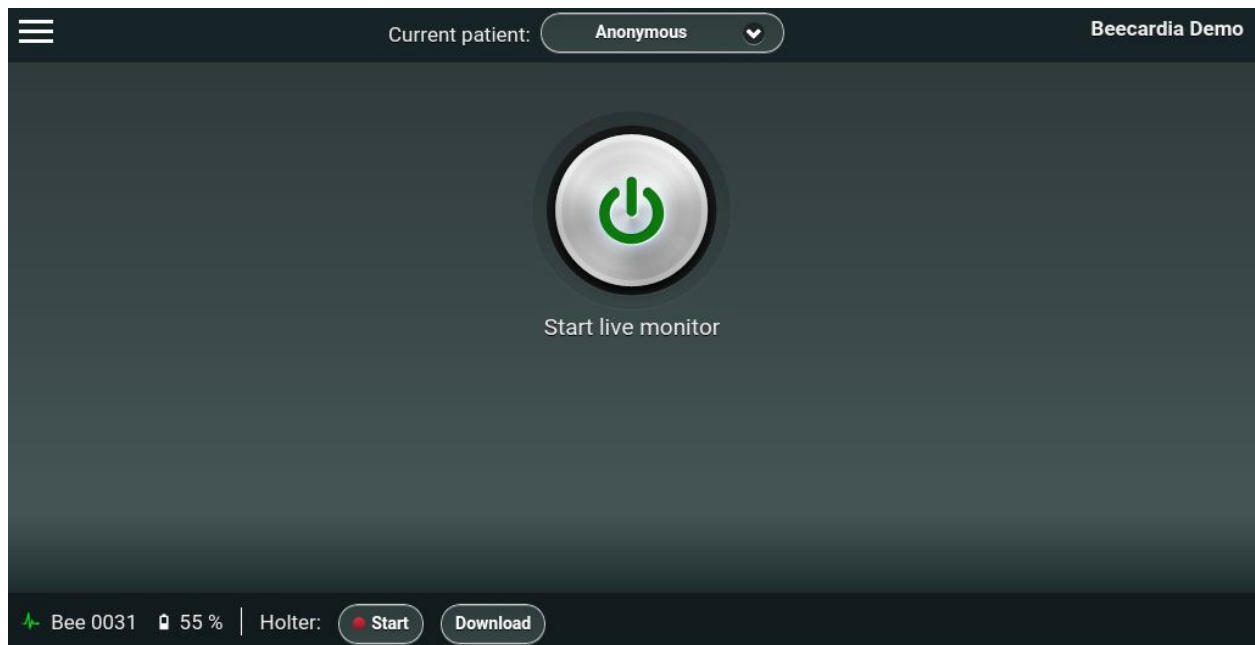
This option will allow you to create a study with an anonymous patient.

Electrodes placement

■ Right front leg ■ Right back leg □ Chest
■ Left front leg ■ Left back leg

Start monitoring

After connecting the device (See “[Connecting the device](#)” section), the main button at the homepage should turn from gray to green.



Clicking on “Start live monitor” will go into monitoring mode where you can see the ECG waves.

Start/Stop recording

After verifying that the ECG waves look ok you can start recording by pressing on the red record button at the bottom right corner of the viewer.

Pressing on that button will start the ECG recording, the button will change into a rectangular stop button and a timer with the study duration will appear.

Clicking on the stop button will stop the recording and upload the study to the cloud.

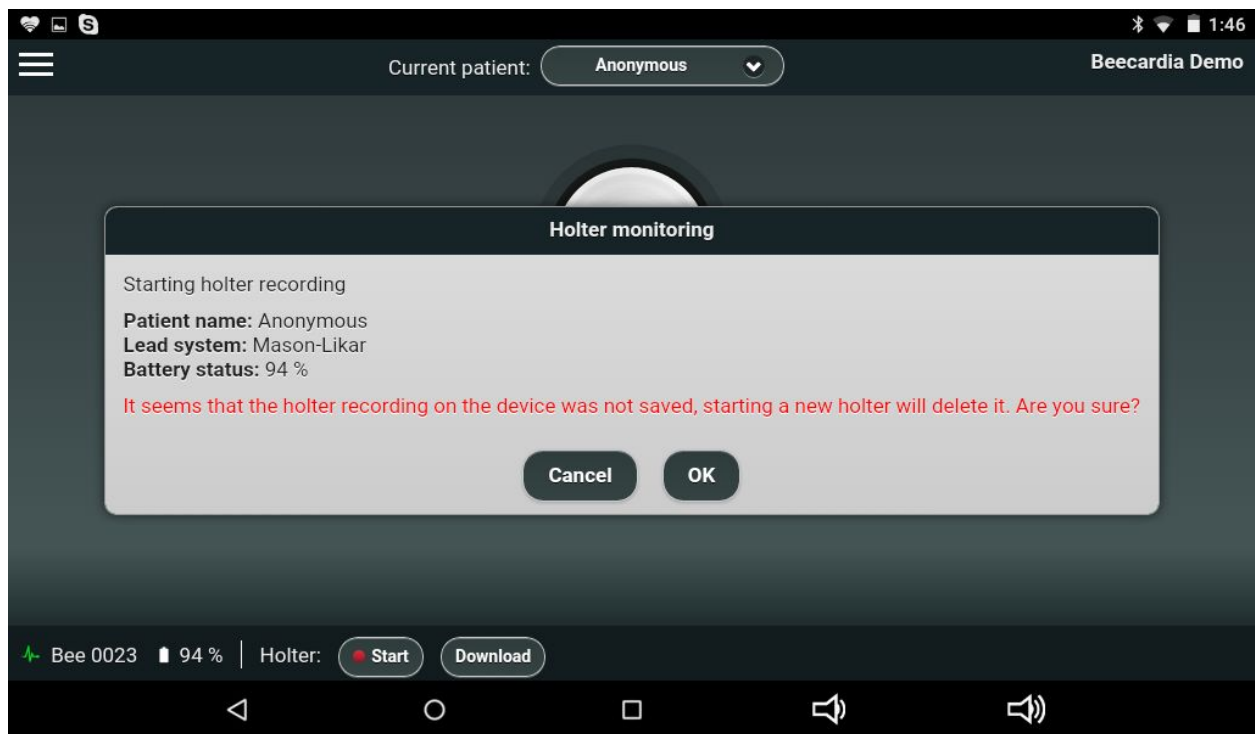


notice the study will only upload to the cloud in case there is an internet connection. If you're offline then the study will upload to the cloud as soon as you go online.

Holter recording

Start Holter recording

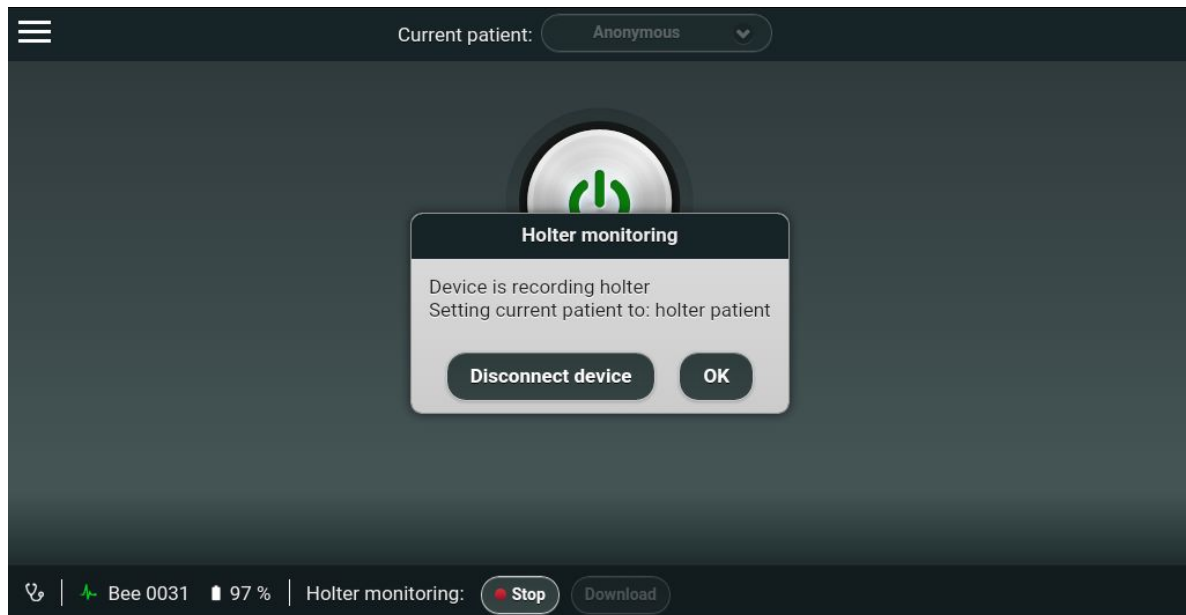
1. Make sure that the Bee device is connected (See "[Connecting the device](#)" section)
2. The device panel at the bottom of the homepage will show the Bee device ID, battery status and the Holter monitoring control panel
3. To start the recording:
 - a. Click on the start button in the Holter monitoring control panel.
 - b. Click on OK in the confirmation window



Stop Holter recording

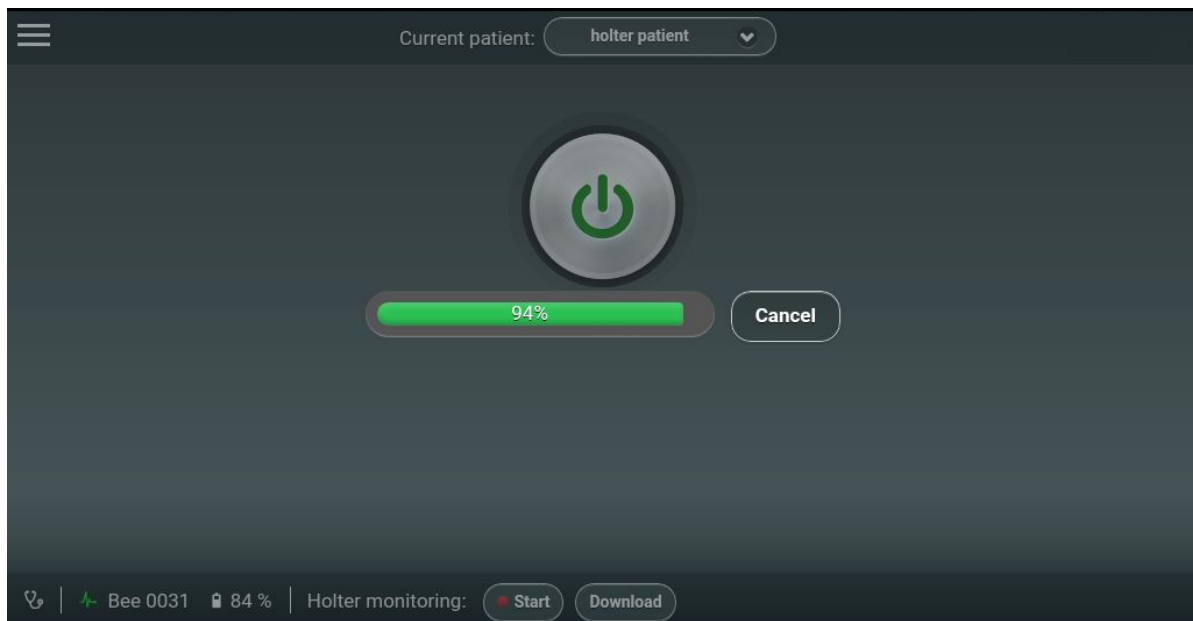
1. Make sure that the Bee device is connected (See “[Connecting the device](#)” section)
2. Once the device is connected, a message about the Holter recording will appear. Click on the OK button
3. Click on the stop button in the Holter monitoring panel at the bottom of the homepage

notice You can't start another Holter recording before you download (See “[Download Holter recording](#)” section) the newly recorded one from the Bee device to the tablet.



Download Holter recording

1. Click on the download button in the Holter monitoring panel at the bottom of the homepage
2. Once the download is complete, the progress bar will disappear and the Holter recording will upload to the cloud



Offline records

Every study is saved locally on the tablet. You can see all the previous studies by going to the main screen and selecting “Main Menu > Records” in the top left corner.

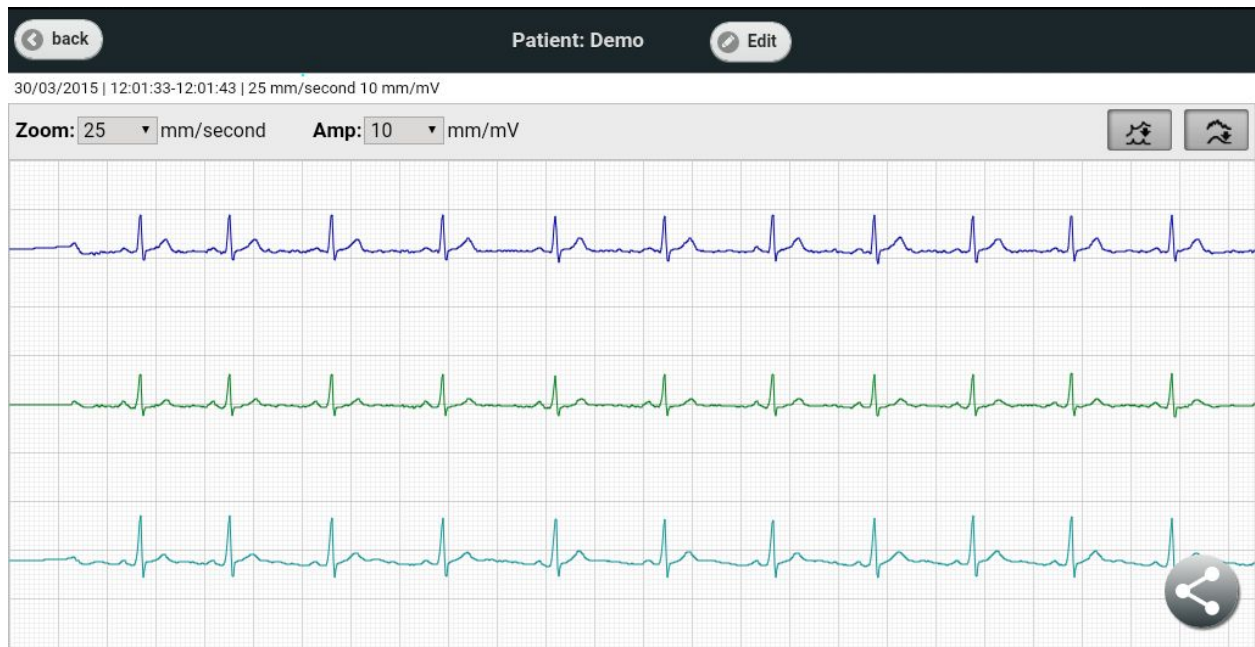
back		Records	
Demo March 30, 2015		Unspecified, 82 Kg, 185 cm 12:01	
Demo March 30, 2015		Unspecified, 82 Kg, 185 cm 12:01	
Demo March 30, 2015		Unspecified, 82 Kg, 185 cm 12:01	
Demo March 30, 2015		Unspecified, 82 Kg, 185 cm 12:01	

Clicking on an individual study will open it in an offline viewer on the tablet.

Offline viewer

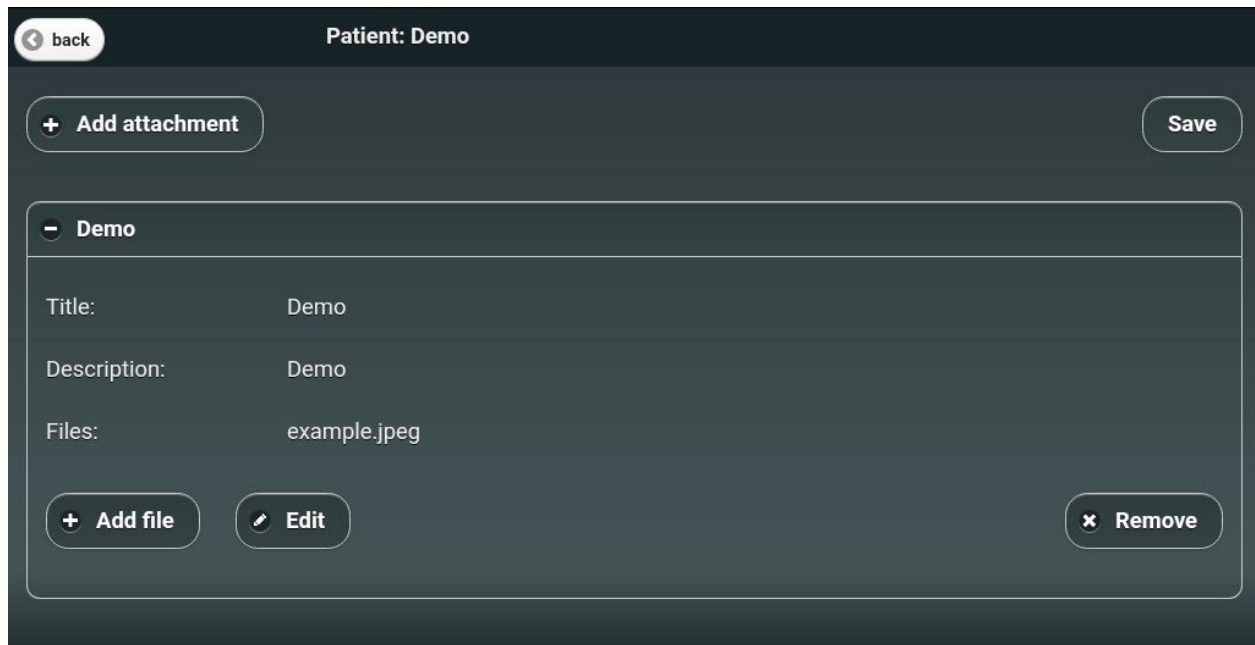
The offline viewer enables you to see the local studies.

You can swipe to move forward/backward, change the zoom and amplitude and view the study locally on the tablet.



Attachments

You can add attachments to a new study or to an existing one. To add attachments go to “Main Menu > Attachments” then choose if you want to add it to a new study, an existing one or to the last study.



The screenshot shows a dark-themed user interface for managing attachments. At the top, there is a header bar with a "back" button on the left and the text "Patient: Demo" in the center. Below the header, there is a main content area. On the left side of this area, there is a button labeled "+ Add attachment". On the right side, there is a button labeled "Save". In the center, there is a section titled "Demo" with a minus sign icon. Below this title, there are three rows of information: "Title: Demo", "Description: Demo", and "Files: example.jpeg". At the bottom of this section, there are three buttons: "+ Add file", "Edit" (with a pencil icon), and "x Remove".

- “Add attachment” - add a new attachment
- “Edit” - change the name or the title
- “Add file” - add more files to the same attachment
- “Remove” - remove an attachment
- “Save” - save and upload the attachments

Advanced features

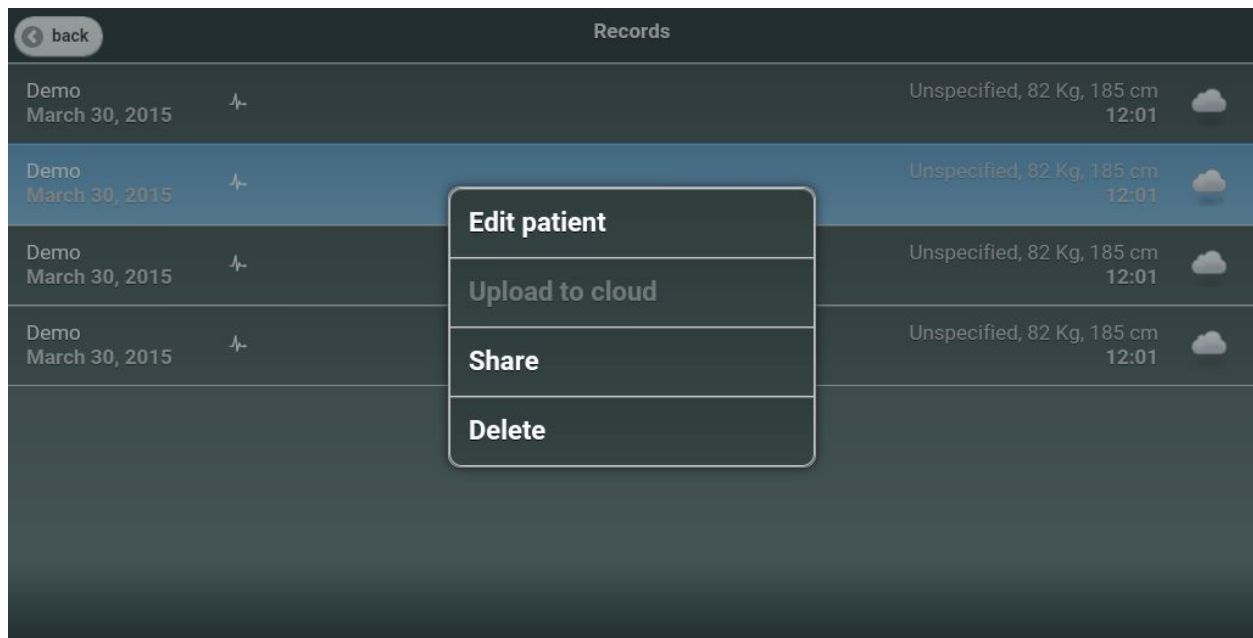
Update the application

You can check for new application updates by going to “Main Menu > Settings > Check for updates” and click on “Check”.

Share

In order to share a study:

1. Go to the records tab (See “[Offline records](#)” section)
2. Press for a few seconds on the study that you want to share
3. A popup menu will appear, choose “Share”
4. Choose method of sharing (e.g. email)
5. A link to the study and the study screenshot will be shared



Edit patient

In order to edit the patient details on a study that you already recorded:

1. Go to the records tab (See "[Offline records](#)" section)
2. Press for a few seconds on the study that you want to share
3. A popup menu will appear, choose "Edit patient"
4. Edit the patient details and press "Ok"
5. The new patient details will automatically sync with the cloud

Streaming

In order to stream ECG in real time:

1. Go to Main Menu > Settings > Advanced
2. Turn on "Remote monitoring"
3. Start monitoring (See "[Start monitoring](#)" section)
4. Click on the "Share" icon in the bottom right corner of the viewer
5. Choose sharing method (e.g. email)
6. A link for live ECG session will be shared, using this link the doctor can view the ECG session in real time



Pairing Bee

In order to pair Bee:

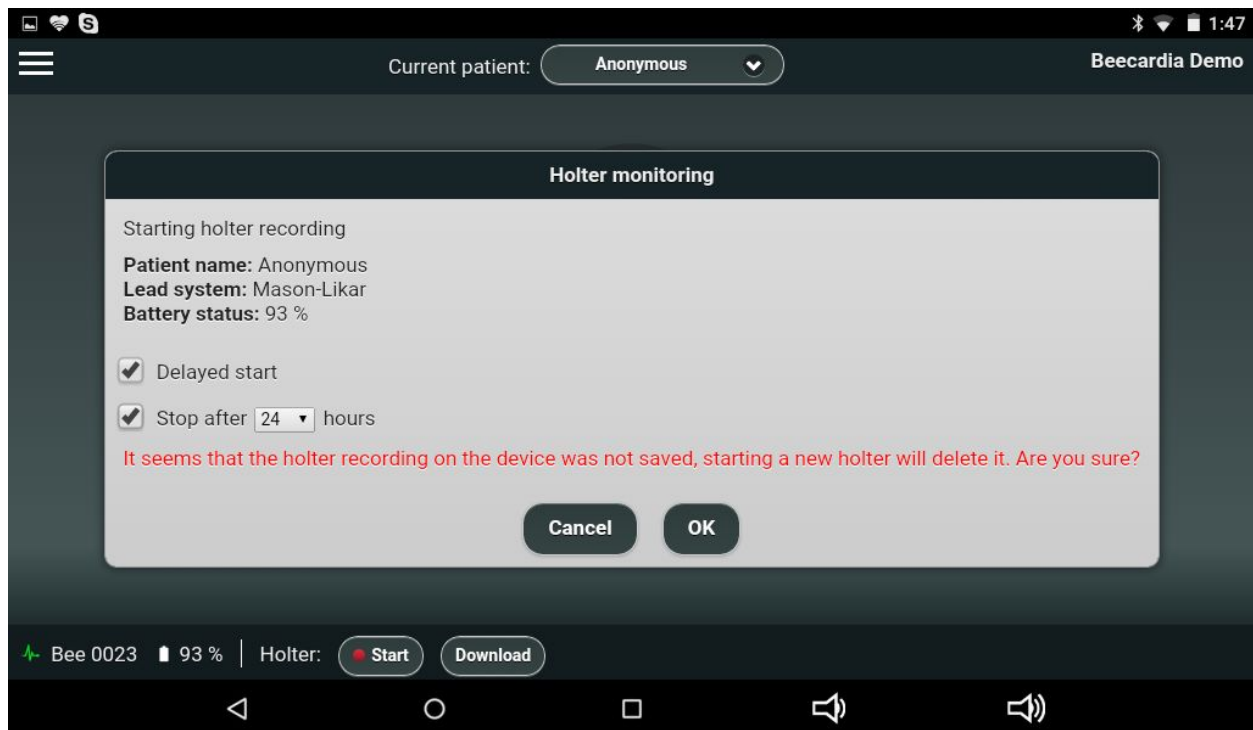
1. Go to the tablet Bluetooth settings
2. Click on the Bee device button until the light on the device turns green
3. Select the Bee device under "Available devices"
4. A popup asking for the device pairing PIN should appear
5. Enter 0000 in the pairing window and click "OK"

Holter delayed start/stop

To enable this feature go to Main Menu > Settings > Holter > Enable delayed start/stop.

After enabling this setting, when you start a new Holter study you'll have an option to choose if you want delayed start and when do you want the Holter to stop.

When delayed start is chosen the Holter will not start immediately, in order to start the Holter recording you should press on the device button until you see a green light blinks 5 times.



Automatic mode

Automatic mode allows you to record a specific time period with one click. In order to enable it:

1. Go to Main Menu > Settings > ECG
2. Turn on "Enable ECG automatic mode"
3. The default recording duration is 90 seconds, you can change that under "Automatic recording duration"

After enabling the automatic mode, clicking on "Start live monitor" will automatically start the recording for the defined time period.

Troubleshooting

Studies are not uploaded to the cloud

1. Please make sure your tablet is connected to the internet
2. Please make sure the tablet clock settings are correct - the tablet should show the correct time and have the correct time zone configured (you can check it in the tablet settings).
3. If you're behind a firewall, please contact your IT and ask to allow our servers:
clinic.beecardia.com - port 443, beta.beecardia.com - port 443 and s3.amazonaws.com - ports 80 and 443

Bee device fails to connect

1. Make sure that the device is paired (See "[Pairing Bee](#)" section)
2. Go to Main Menu > Connection assistant
3. Select the Bee device under the "Bluetooth connection" section
4. A green checkmark should appear next to the device, indicating it is now connected

Very noisy signal

Please wet all the clips contact sites and the patient body at the places where you connect the electrodes with conductive agent.

Issues while monitoring

If you're experiencing issues while in monitoring mode, such as white screen or traces overlaps then please go to "Main Menu > Settings > Advanced > Enable GPU" and change the current settings (from on to off or the other way around).

After doing that the application will close itself and the new setting will take effect after you relaunch the application.

How to report an issue

If you run into an issue, please report it back to us as it will help us fix it and improve the product.

In order to report an issue:

1. Click on Main Menu > Report an issue
2. Fill the issue description
3. If you know when the issue occurred please fill the time

4. Click the OK button
5. Choose the email sharing method
6. Send the email