
Beecardia Cloud

User Manual



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Introduction

The Beecardia solution consists of hardware devices, a mobile app, and a web-based cloud service. This manual explains how to use the Beecardia cloud service.

Every study you record with the Beecardia app on your tablet is uploaded to the cloud whenever the tablet is connected to Wi-Fi. In the cloud, you can view and analyze your studies, share them, and refer them to a cardiologist.

Setting up an account

You need a Beecardia account before you can use the mobile app. To create one:

1. Go to <https://clinic.beecardia.com> and click **Sign up**
2. Choose your account type - **Physician** or **Veterinarian**
3. Enter your email and a password, and click **Create a new account**
4. Enter the confirmation code we email you, and click **Confirm**

You can now sign in.

Login to the cloud

Go to <https://clinic.beecardia.com>, enter your email and password, and click **Sign in**.

Forgot your password? Click **Reset password** on the sign-in page. To sign out, click your name at the top right and choose **Logout**.

Studies list

Beecardia

Studies

Report orders

Site Demo

1

Filter by patient

Patient name	Patient id	Owner	Shared by	Type	Date	Duration	AI Screening	Report
Rest ECG I	1212			Rest	30/07/2024 16:38:27	00:01:03		view
Rest ECG II	2824			Rest	28/07/2024 12:28:42	00:00:32		
Holter I	03705			Holter	21/07/2024 09:40:43	21:23:55		
Demo Patient I				Rest	05/06/2024 18:22:50	00:00:30		
Demo Patient II				Rest	05/06/2024 11:57:01	00:00:30		view
Demo Patient III				Rest	02/06/2024 11:21:00	00:00:30		view
Rest ECG I	Baseline 1212			Rest	15/01/2024 10:05:00	00:00:30		

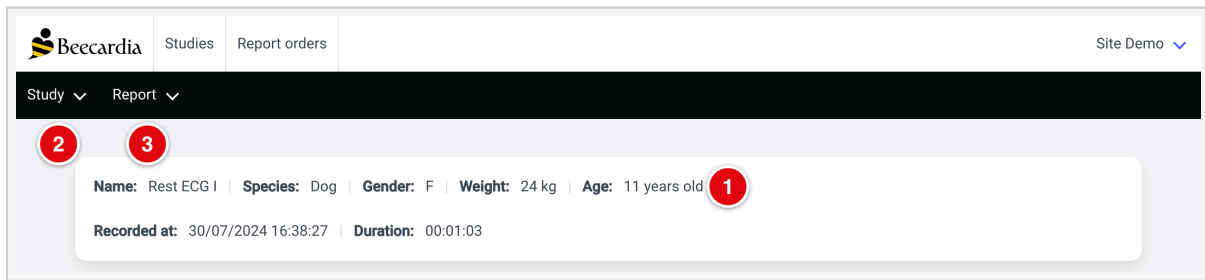
Previous

Next

The studies list shows all of your studies. For each study, you can see the patient name, study type, date, duration, and more.

- Click a study to open its [study page](#)
- Filter the list by patient, study type, or tag (1)
- If a study has a report, click **view** to open it (2)

Study



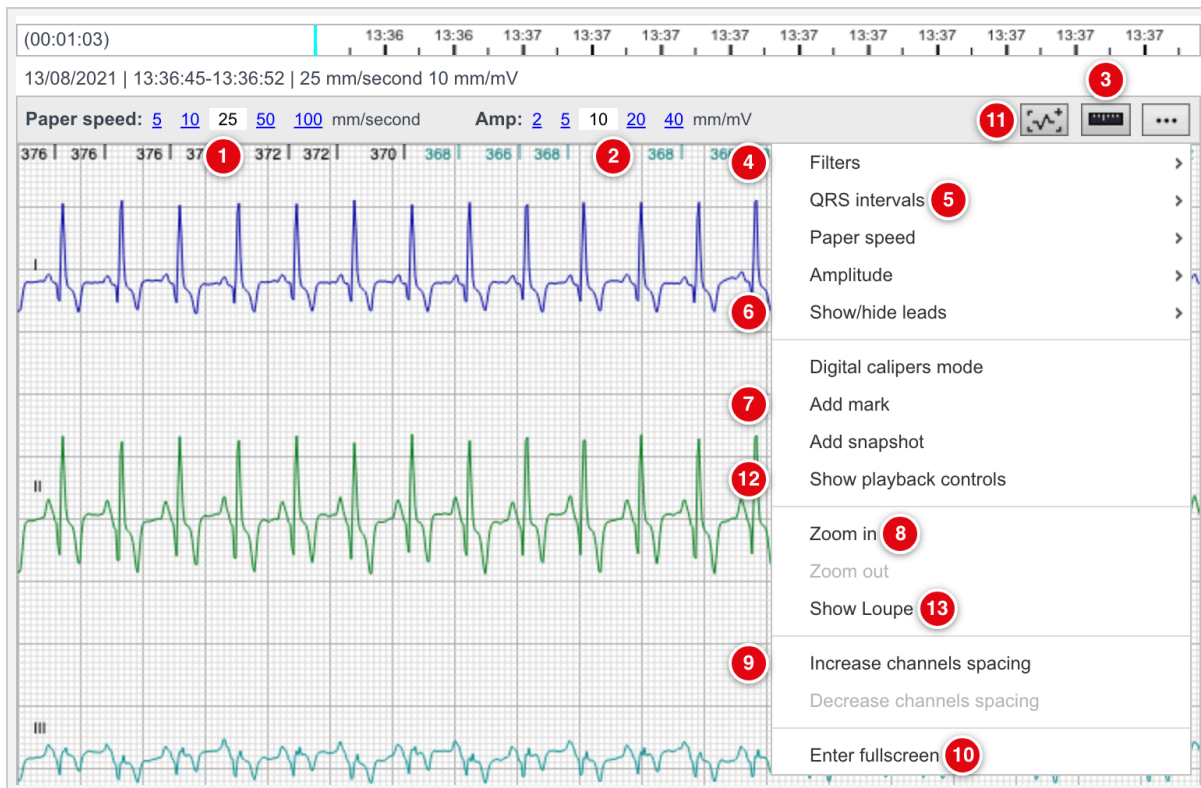
The study page shows the patient details and the ECG viewer. From this page, you can view or write a report, order a diagnosis from a cardiologist, and print, download, or compare the study.

- A summary of the patient details (1)
- The **Study** menu (2): print the study, download it as a PDF, or compare it with another study (see [Comparing studies](#))
- The **Report** menu (3): view or create the [report](#), or choose **Request analysis** to order a remote ECG interpretation from a cardiologist



The main part of the page shows the ECG signal.

- **Events and calculations** (1) - calculations such as the mean electrical axis
- **Attachments** (2) - add files to the study with **Add attachment**
- **Patient details** (3) - the patient's full details
- **Discussion** (4) - comment on the study, for example to communicate with the cardiologist interpreting it
- **Diagnosis** (5) - write your [diagnosis](#)
- Click anywhere on the timeline at the top to jump to that point in the exam (6)
- The main viewer shows the ECG signal. Drag left or right to move through it, or use the left and right arrow keys (7)
- The context viewer at the bottom shows a wider view of the exam, and the rectangle marks the part shown in the main viewer (8). It shows lead I by default - use the lead menu on its left to change it



- Change the main viewer's paper speed (1) and amplitude (2)
- Measure on the signal with the digital calipers (3). Click the signal area and drag to draw a rectangle: its width shows the duration in ms, and its height shows the amplitude in mV
- Turn the filters on or off (4). Baseline correction and smoothing are on by default; the notch filter removes 50 or 60 Hz power-line interference
- Choose whether to show QRS intervals or heart rate (5)
- Show or hide specific leads (6)
- Add a mark at a specific point (7)
- Zoom in or out (8)
- Increase or decrease the spacing between leads (9)
- Switch to fullscreen mode (10)
- Click the snapshot button (11) to capture the current view - see [Snapshots](#)
- Show playback controls (12) to play the ECG as moving waves, at an adjustable speed
- Magnify part of the signal with the loupe (13)

Snapshots

A snapshot captures the current view of the ECG - including its time position, paper speed, and amplitude - so you can highlight a finding and comment on it.

To add one, click the snapshot button on the viewer toolbar, or choose **Add snapshot** from the viewer menu. Snapshots are listed in the **Diagnosis** tab, where you can view, edit, or delete them, and they are added automatically, with their markings and comments, to the report.

The screenshot shows the 'Add snapshot' dialog box. At the top, the title bar says 'Add snapshot' with a close button (X). Below the title bar, the header displays '13/08/2021 | 13:36:45-13:36:52 | 25 mm/second 10 mm/mV'. To the right of the header is a shape and color selector (1) showing a black circle. The main area displays a 12-lead ECG. Lead II is highlighted in green, and a black circle (2) is drawn around a complex. A red circle with the number 2 is also present on the right side of the ECG. Below the ECG is a text input field (3) containing the comment 'Representative sinus complex - note the tall R wave in lead II.' At the bottom right, there are 'Cancel' and 'OK' buttons (4).

- Choose a shape - circle, rectangle, arrow, or vertical line - and its color (1)
- Draw on the ECG to mark what matters (2)
- Add a comment (3)
- Click **OK** to save the snapshot (4)

Comparing studies

To follow changes over time, you can compare two Rest ECG studies side by side.

- On the patient's reference study, choose **Study > Set as baseline**
- On a later study of the same patient, choose **Study > Compare to: Baseline**
- To compare with any other study, choose **Study > Other study...** and select it from the list



The two studies appear side by side, each with its measurements above it. The buttons between them (1), from top to bottom:

- Sync both viewers, so they scroll and zoom together
- Select a different study to compare with
- Switch to fullscreen
- Open the left or right study on its own

Diagnosis

Measurements 1

HR (BPM)

162

P (ms)

40

P (mv)

0.2

PR (ms)

100

QRS (ms)

50

R (mv)

1.8

QT (ms)

190

MEA

Left axis deviation

Conclusions 3

Insert template

Sinus rhythm, 162 bpm. Mild left axis deviation. No significant arrhythmia.

2

Dr. Site Demo

30/07/2024 16:38:27

Diagnosis tags 4

5

sinus rhythm

left axis deviation

Marks 6

Short pause before this beat

View

Baseline drift in lead III

View

Snapshots 7

Representative sinus complex - note the tall R wave in lead II.

edit

View

Save

8

Enter your diagnosis here - a new report is filled in with it automatically.

- ECG measurements and the mean electrical axis (**MEA**) (1) - filled in from the digital calipers if you saved measurements with them
- Write your conclusions (2)
- Insert a template (3). To add templates, see [Report settings](#)
- Add diagnosis tags (4), or click the three dots (5) to choose from a predefined list. Tags let you filter your studies - for example, clicking "left bundle branch block" shows all your studies with that tag
- Your marks (6), added with **Add mark** in the viewer - click **View** to jump to one
- Your [snapshots](#) (7) - click **View** to see one, or **edit** to change its comment and markings
- Click **Save** (8) to save your diagnosis

Report

The report page includes your clinic details, the patient details, a snapshot of part of the ECG, a mean electrical axis chart, and your conclusions about the study, followed by your [snapshots](#) with their markings and comments.



- By default, your name with the title "Dr." appears at the top of the page (1). You can change this in [Report settings](#)
- Download the report as a PDF (2) or print it (3)
- The patient details appear above the ECG signal (4)
- The ECG signal uses the same zoom, amplitude, and time position you chose on the study page (5)

Below the ECG are the mean electrical axis chart and your conclusions:

HR (BPM)	P (ms)	P (mv)	PR (ms)	QRS (ms)	R (mv)	QT (ms)	MEA 1
162	40	0.2	100	50	1.8	190	Left axis deviation

Report / Conclusion:

2

3

Sinus rhythm, 162 bpm. Mild left axis deviation. No significant arrhythmia.

Dr. Site Demo Jul 30, 2024

4 Signature: _____

- ECG measurements and the mean electrical axis (1). If you saved measurements in the [Diagnosis tab](#), they are filled in here automatically
- Insert a template (2). To add templates, see [Report settings](#)
- Write your conclusions (3). If you ordered an ECG interpretation from a cardiologist, their conclusions appear here, and you receive an email when the report is ready
- Click **Save report** (4) when the report is complete - or **Update report** when you edit an existing report

Report orders

Ordered from	Patient name	Owner	Type	Date	Status	AI Screening	Actions
Dr. Demo Cardiologist	Demo Patient I		Diagnostic	05/06/2024 18:22:50	Pending		Download invoice Cancel 3
Dr. Demo Cardiologist	Demo Patient II		Diagnostic	05/06/2024 11:57:01	Done	2	View report Download invoice 1
Dr. Demo Cardiologist	Demo Patient III		Diagnostic	02/06/2024 11:21:00	Done		View report Download invoice

Previous

Next

The **Report orders** tab lists all of your report orders.

- Download the invoice, when there is one (1)
- View the report once it is ready (2)
- Cancel an order made by mistake, as long as it is still **Pending** (3)

Profile

Personal info 1

First name

Middle name

Last name

ID

Site

Demo

Login details 2

Password

Email address

Update Password

demo@local

Clinic info 3

Hospital/Clinic name

Phone number

Country

Site Demo Clinic

United States of America

Address line 1

Address line 2

1 Demo Street

City

State / Region

Zipcode

Boston

MA

02134

Logo

Update logo

To update your profile, click your name at the top right and choose **Profile**.

- Update your personal details (1)
- Update your login details (2)
- Set your clinic details (3)

Settings

To change your settings, click your name at the top right and choose **Settings**.

Account settings

The screenshot shows the 'Account settings' page. It has a title 'Account settings' at the top left. Below it are four settings, each with a red circle containing a number: 1. 'Language' set to 'English' with a dropdown arrow. 2. 'Unit system' set to 'Metric' with a dropdown arrow. 3. 'Date format' set to 'dd/mm/yyyy' with a dropdown arrow. 4. 'Display name' set to 'Dr. Site Demo' in a text input field. Below the display name field is a small note: 'How other users will see your name when sharing studies, ordering reports, etc'.

- Set the site language (1)
- Choose the unit system - metric or imperial (2)
- Choose your preferred date format (3)
- Set your display name (4). This is the name other users see across the site. By default, it is your name with the title "Dr."

Viewer settings

Viewer settings

Default paper speed

25  

Default amplitude

10  

Default QRS intervals

RR intervals  

Grid type

10x10  

Display predictive measurement

☐ 

Show playback controls

☐ 

- Set the viewer's default paper speed (1) and amplitude (2)
- Choose whether the viewer shows QRS intervals or heart rate by default (3)
- Set the default viewer grid (4)
- Show predictive lines when you use the digital calipers (5)
- Show the playback controls under the viewer by default (6)

Report settings

Report settings

Paper size

☒ A4 ☐ Letter 1

Header

2

Conclusion templates

Template 1

Template 2   

3

Signature

4

Digital signature

5

- Choose the default paper size for printing (1)
- By default, your display name appears at the top of the report. To use a different header, enter it here (2)
- Add conclusion templates. Click the star next to a template to make it the default - it is filled in automatically for every new conclusion (3)
- Your signature (4) appears automatically at the bottom of new conclusions. By default, it is your display name
- Draw your signature to show it on your reports (5)

Sharing

Sharing

1

Share

Currently sharing with me:

Name	Status	Actions
Dr. Demo Cardiologist	Active	Deactivate

2

3

To set up automatic sharing, click your name at the top right and choose **Sharing**.

- To share all your studies automatically with someone, click **Share** (1) and enter their email address
- They receive an email asking them to approve the sharing. Once they approve, all your studies are shared with them, and they get an email notification for every new study you upload
- The **Currently sharing with me** section lists who shares studies with you (2)
- Activate or deactivate a sharing (3)