

HeartBeam AIMiGo Clinician Portal

User Manual

Document Revision 8



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Warnings/Cautions/Definitions

The terms **WARNING**, **CAUTION**, and **NOTE** are used throughout this manual to point out hazards, and to designate a degree or level of seriousness. Familiarize yourself with their definitions and significance.

⚠ **WARNING:** indicates a potential hazard or unsafe practice which, if not avoided, could result in death or serious injury.

CAUTION: indicates a potential hazard or unsafe practice which, if not avoided, could result in minor personal injury or product/property damage.

NOTE: provides application tips or other useful information to assure that you get the most from your equipment.

Additional safety messages that provide appropriate safe operation information may be found throughout this manual.

Warnings

- ⚠ **WARNING:** The synthesized 12-L ECG output is contraindicated for the assessment of any urgent, serious, or life-threatening conditions or arrhythmias. The synthesized 12-L ECG output is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex.
- ⚠ **WARNING:** The safety and effectiveness of the synthesized 12-L ECG output signal has been evaluated for assessment of non-life-threatening arrhythmias only. Other cardiac conditions have not been investigated.
- ⚠ **WARNING:** If deemed clinically necessary, a standard 12-L ECG should be obtained for confirmation and final clinical assessment.
- ⚠ **WARNING:** Patients should not complete Patient Onboarding if they are feeling unwell or are experiencing any cardiac related symptoms (such as heart palpitations, dizziness, light headedness, etc.).

Cautions

- The AIMIGo device is not intended for patients with tremors and/or those unable to place and maintain the device in the correct position for the duration of the recording
- Filters applied to ECG signals may impact the ECG signal morphology, including significant attenuation of low-level atrial activity (P-waves / Flutter-waves), which may result in inability to discriminate certain types of arrhythmias (e.g., Atrial Fibrillation/Atrial Flutter). The ECG report produced by HeartBeam AIMIGo is not intended for analysis of the T-wave or other morphological ECG evaluation.
- While the portal will time-out and close your session automatically after a period of inactivity, it is recommended to always remember to log out from AIMIGo portal after finishing your session, especially when using public or shared computers.
- If you suspect that your computer is compromised or encounter any suspicious activity while accessing the portal, promptly sign-out and notify your IT team.

Additional safety messages that provide appropriate safe operation information may be found throughout this manual.

Introduction

This User Manual describes the system requirements and instructions for using the cloud-based HeartBeam Clinician Online Portal and ECG Viewer (the “portal”). For information specific to the HeartBeam AIMIGo ECG device for patient use, please refer to the HeartBeam AIMIGo Patient User Manual (D-10001).

The HeartBeam AIMIGo Clinician Portal and ECG Viewer are intended for clinicians that prescribe the AIMIGo device for the purpose of recording and collecting ECGs on patients diagnosed with, or at-risk for, cardiac diseases.

Collectively, the HeartBeam AIMIGo Device, HeartBeam Application, and HeartBeam Clinician Portal comprise the HeartBeam AIMIGo System (“System”).

HeartBeam AIMIGo System Indications for Use

The HeartBeam AIMIGo™ System is a portable, non-invasive recorder intended to record, store, and transfer a patient’s 3-Lead (in three-directions) electrocardiogram (ECG) acquired from 5 electrodes. The device is intended to be used by adult patients in either a clinical setting or at home. The device does not conduct cardiac analysis and can be used with an ECG Viewer software system for manual interpretation of non-life-threatening arrhythmias by a physician or healthcare professional.

HeartBeam 12-Lead ECG Synthesis Software Indications for Use

The HeartBeam 12-L ECG Synthesis Software synthesizes a 12-L ECG from the HeartBeam 3-Leads (in three-directions) recording device, producing a visual 12-L ECG representation that is similar, but not identical, to the same leads of a standard diagnostic 12-L ECG.

The synthesized 12-L ECG output is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex. The synthesized 12-L ECG output is not intended for the assessment of any other arrhythmia or conditions (including but not limited to: other atrial arrhythmias, ventricular arrhythmias, hypertrophy, conduction disorders, myocardial infarction or ischemia, pacemaker functions, localization of arrhythmia foci, ECG wave abnormalities, and/or any other disorder). The software does not conduct cardiac analysis and is not intended to replace a standard 12-L ECG. The 12-L ECG Synthesis Software is intended for adult use only.

Abbreviations & Definitions

ECG	Electrocardiogram
HCP	Healthcare Provider/Professional
MFA	Multi-factor Authentication
URL	Uniform Resource Locator (“Link” used withing web browser)
AF, AFib	Atrial Fibrillation
IFU	Instructions For Use

AIMiGo ECG Recording Device	Portable, non-invasive recorder intended to record, store, and transfer a patient’s 3-Lead electrocardiogram (3-L ECG). The ECG Recorder communicates with the Patient Application to transfer the 3-Lead ECG recorded signal to the cloud-based AIMiGo 12-L ECG Synthesis Software. See Patient User Manual for more detail.
Standard 12-Lead ECG Machine	EDAN SE-1515 DX-12 machine used to record a patient 12-Lead ECG using 10 electrodes applied to the body (“Traditional 12-Lead Machine”, “Standard ECG Machine”).
Patient Registration	The process of enrolling a patient into the HeartBeam AIMiGo System through the clinician portal. It includes adding patient information, assigning the AIMiGo Device, uploading their standard 12-Lead ECG, and completing AIMiGo Onboarding recordings.
Patient Re-Registration	The process of updating a patient enrollment on the clinician portal in response to an event that warrants a new PTM to be generated. It includes updating the patient weight, uploading a new standard 12-Lead ECG, and completing AIMiGo Onboarding recordings.
Patient Onboarding	Within Patient Registration, the Patient task of completing three AIMiGo recordings using their assigned AIMiGo Device.
AIMiGo 12-L ECG Synthesis Software	The cloud-based software algorithm designed to synthesize 12-Lead ECGs from the 3-L ECG signals collected from the AIMiGo ECG Recorder device. The algorithm is used to establish three types of outputs: (1) Personalized Transformation Matrix, (2) the Baseline Synthesized 12-Lead ECGs during an Onboarding ECG Recording Session, as well as (3) subsequent User Initiated Synthesized 12-Lead ECGs used for both (a) asymptomatic, routine monitoring recordings and (b) symptomatic recordings purposes.
Onboarding ECG Recording Session	The Onboarding ECG Recording Session consists of (A) capturing Reference AIMiGo 3-L ECG recordings using the AIMiGo ECG Recording device and (B) a Reference Standard 12-L ECG recording. The purpose of these recordings (A and B) is to collect the input signals required by the AIMiGo 12-L ECG Synthesis Software to generate the Personalized Transformation Matrix and establish a Baseline Synthesized 12-L ECG for each patient during onboarding.
Reference Standard 12-Lead ECG (“Standard 12-Lead ECG”)	This is the 12-Lead ECG (12-L ECG) output recorded from a Standard 12-Lead ECG machine. This standard 12-L ECG signal serves as an input to the AIMiGo 12-L ECG Synthesis Software.
Reference AIMiGo 3-Lead ECG	This is the 3-Lead ECG signal obtained with the AIMiGo ECG Recording device during the Patient Onboarding. This Reference 3-L ECG signal serves as an input to the AIMiGo 12-L ECG Synthesis Software. The recorded 3-L ECG is used by the AIMiGo 12-L ECG Synthesis Software, in conjunction with the Reference Standard 12-Lead ECG input, to generate the Personalized Transformation Matrix that is then used to establish a Baseline Synthesized 12-ECG during onboarding for each patient. See Patient User Manual for more detail.
Personalized Transformation Matrix (“PTM”)	This is an output of the AIMiGo 12-Lead ECG Synthesis Software. To create the PTM, the AIMiGo 12-Lead ECG Synthesis Software algorithm uses both a Reference Standard 12-Lead ECG signal and Reference AIMiGo 3-Lead ECG signal captured during Patient Onboarding. Once the matrix is generated during the Onboarding Session, the AIMiGo 12-Lead ECG Synthesis Software uses the

	Personalized Transformation Matrix to create a Baseline Synthesized 12-Lead ECG, and subsequent User Initiated Synthesized 12-Lead ECGs.
Baseline Synthesized 12-Lead ECG	This is an output of the AIMiGo 12-L ECG Synthesis Software created from the Reference Standard 12-Lead ECG input signal, Reference AIMiGo 3-Lead ECG input signal, and Personalized Transformation Matrix. The Baseline Synthesized 12-Lead ECG can be used as a comparator for future User Initiated Synthesized 12-Lead ECGs generated by the AIMiGo 12-L ECG Synthesis Software. The Baseline 12-Lead ECGs are viewable in the ECG Viewer by selecting the '12 Leads' toggle.
Assessment AIMiGo 3-Lead ECGs	This is the 3-L ECG signal obtained with the AIMiGo ECG Recording device during regular use (i.e., for either asymptomatic, routine monitoring recordings and symptomatic recordings). This 3-L ECG signal serves as an input to the AIMiGo 12-L ECG Synthesis Software. The AIMiGo 12-L ECG Synthesis Software applies the previously generated Personalized Transformation Matrix to the newly recorded Assessment 3-L ECG recording to create an Assessment synthesized 12-Lead ECG rendering. The Assessment 3-Lead ECGs are viewable in the ECG Viewer by selecting the '3 Leads' toggle.
Assessment Synthesized 12-Lead ECGs	This is an output of the AIMiGo 12-L ECG Synthesis Software that is generated for assessment (both for asymptomatic, routine monitoring recordings and symptomatic recordings purposes). The AIMiGo 12-L ECG Synthesis Software algorithm generates the Assessment synthesized 12-Lead ECGs by applying the Personalized Transformation Matrix that was established during onboarding, to a newly recorded Assessment AIMiGo 3-L ECG signal obtained from the AIMiGo ECG Recording device. The Assessment synthesized 12-Lead ECGs reflect a patient's current ECG status and can be compared to the Baseline Synthesized 12-Lead ECG for assessment of clinically relevant changes. The Assessment 12-Lead ECGs are viewable in the ECG Viewer by selecting the '12 Leads' toggle.
EMG Noise	Electromyographic (EMG) noise refers to unwanted interference generated by muscle activity that contaminates the ECG signal. This noise can obscure the underlying cardiac activity, making it challenging to accurately interpret the ECG recording. EMG noise typically manifests as high-frequency spikes or fluctuations in the ECG signal, often occurring during movements or muscle contractions. To mitigate the effects of EMG noise, HeartBeam has developed an enhanced filter referred to as the Iterative Regeneration Method (IRM), a novel method for efficient EMG-noise suppression. The main hypothesis behind the method is that the temporary removal of the dominant ECG components (QRS complexes and T waves) which enables the extraction of the noise with the minimum alteration to the signal. Essential characteristics of the IRM are the preservation of heartbeat morphology by retaining the low-frequency content and the preservation of inter-beat variation. The morphology preservation is particularly important in segments with small amplitude, such as the P wave crucial for diagnosis of atrio-ventricular blocks.
Baseline Wander	Baseline wander is a low-frequency noise that can distort the true signal, often caused by patient movement, respiration, or poor electrode contact. Cubic spline filtering is a mathematical technique used to correct baseline wander in electrocardiogram (ECG) signals and other physiological recordings. This approach is the foundation of the HeartBeam approach to baseline wander removal.
60Hz Filter	The 60Hz notch filter is designed to specifically target and attenuate the 60Hz frequency component from a signal. Lighting and power lines can introduce 60Hz noise into the AIMiGo device and subsequently the recordings. By applying a 60Hz notch filter, this interference can be reduced, improving the quality and clarity of the recorded signal.

System Requirements

Use a PC or Mac with a reliable internet connection (recommend stable 5Mb download and 5Mb upload speed) and an operating system that supports one of the following JavaScript enabled browsers:

- Google Chrome, Version 108+
- Microsoft Edge, Version 117 +
- Firefox, Version 108+

NOTE: The HeartBeam Clinician Online Portal ensures that the browser from which it is accessed uses TLS 1.3 or higher and will reject connecting with an unsupported protocol version or a browser which is untrusted.

Cybersecurity Guidance, Recommendations, and Information

Ensuring the utmost security and integrity of patient data is our highest concern. To contribute to the safeguarding of both patient information and the overall integrity of AIMiGo portal, we recommend that all clinicians and users adhere to robust cybersecurity practices on their computer.

Password Best Practices

Protecting your account starts with a robust password. The integrity and confidentiality of patient data are of utmost importance, and a strong password is the first line of defense against unauthorized access. Always follow your organizations recommendations and consider the below best practices when selecting and managing your password:

- Never reveal your passwords to others, don't write your password down
- Use different passwords for different accounts
- Longer passwords are better, use 16 characters when possible
- Make passwords complex, include upper-case and lower-case letters, numbers, and special characters
- Utilize multi-factor authentication (MFA) when offered by your organization

Essential Anti-Virus Requirements

- Use Reputable Anti-Virus Software: Ensure that your computer is equipped with anti-virus software from a trustworthy provider. Keep the software enabled and ensure that it is set to automatically update to defend against the latest threats.
- Conduct Regular Scans: Execute comprehensive scans of your computer periodically to identify and neutralize any potential threats.
- Keep Your System Updated: Always ensure that your operating system, browsers, and software are up to date to benefit from the latest security patches and updates.
- Enable Firewall: Ensure that your computer's firewall is enabled to safeguard against unauthorized access.

Enable Firewall

- Ensure that your computer's firewall is enabled to safeguard against unauthorized access.

Keep Your System Updated

- Always ensure that your operating system, browsers, and software are up to date to benefit from the latest security patches and updates.

General Best Practices

- Be Wary of Emails: Be cautious with emails that appear suspicious, especially those that ask for personal information, or provide links and attachments. Even if they appear to come from known contacts or organizations, verify their authenticity.
- Avoid Public Wi-Fi for Accessing Patient Data: Refrain from accessing patient data when connected to public Wi-Fi networks. If it is imperative, use a Virtual Private Network (VPN) to secure your connection.

CAUTION: Log Out: While the portal will time-out and close your session automatically after a period of inactivity, it is recommended to always remember to log out from AIMiGo portal after finishing your session, especially when using public or shared computers.

- User Education: Ensure that everyone accessing the platform is educated on cybersecurity principles and the importance of safeguarding digital information.

Patient Data from the AIMiGo Device and Mobile Application

- Clinicians do not need to interact with the patient's mobile device.
- For any concerns or questions regarding the security of the patient's device, healthcare professionals can contact our technical support team for detailed information and assistance.

In Case of a Security Incident on your Computer

CAUTION: If you suspect that your computer is compromised or encounter any suspicious activity while accessing the portal, promptly:

- Follow your organization's protocol for cybersecurity incidents
- Change your password
- Inform the HeartBeam support team

NOTE: Remember that safeguarding against viruses and cyber threats is a collective effort. By adhering to these practices and requirements, we contribute to a more secure and reliable digital environment for all users of AIMiGo portal.

HeartBeam Detection Capabilities for Cybersecurity Events

The HeartBeam Infrastructure includes multiple detection mechanisms to identify potential cybersecurity threats. These mechanisms are designed to monitor for unauthorized access attempts, unusual data transmission patterns, and other indicators of possible security breaches. Specific detectable cybersecurity events include:

- Unauthorized login attempts to the HeartBeam Server Infrastructure
- Malware or virus detection within the HeartBeam Server Infrastructure
- Unusual data transfer activity within the HeartBeam Server Infrastructure
- System integrity breaches within the HeartBeam Server Infrastructure

NOTE: In the event of a detected cybersecurity threat within the HeartBeam Server Infrastructure users will be informed by e-mail or phone call. HeartBeam will provide details about the detected threat, steps taken to mitigate the threat, and additional actions required from the user (if applicable). Detailed remedial instructions will be provided in the event of a cybersecurity incident.

Troubleshooting Guide if the Clinician Online Portal is Unavailable

- Check the status of the internet connection being used to access the Clinician Portal and ensure it is connected to a stable, operational network.
- Ensuring the URL for the Clinician Online Portal is entered correctly (see Log-in to the Clinician Portal section for URL).
- If the above two steps do not result in successful access to the Clinician Online Portal, contact HeartBeam customer support.


Accessing the AIMIGo Clinician Online Portal

Log-in to the Clinician Portal

From your web browser, navigate to the portal login page found here:

<https://care.heartbeam.com>

Enter your Username and Password then click **Login** to access the portal.



The image shows the login page for the Heart Beam clinician portal. The background is a dark teal color. In the top left corner is the Heart Beam logo, which consists of the word "Heart" in white, a red heart icon with a white pulse line, and the word "Beam" in white. In the center of the page is a white login form with rounded corners. The form has a title "Login To Your Account" in bold black text. Below the title are two input fields: the first is labeled "Email" with an envelope icon, and the second is labeled "Password" with a key icon. Below the password field is a link that says "Forgot Password?" in blue text. At the bottom of the form are two buttons: a red button with the text "Login" in white, and a white button with a blue border and the text "Login with SSO" in blue.

NOTE: You may login using Single-Sign On (SSO) if offered by your organization.

System Acknowledgement

CAUTION: Upon logging in to the portal as a first-time user you will be required to acknowledge you understand the below caution terms. Please check “I have read and accept” and click ‘OK’ to continue.

I understand that the synthesized 12-L ECG output is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex. It is not intended for the assessment of any other arrhythmias or conditions.



I understand that the HeartBeam system is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex. It is not intended for the assessment of any other arrhythmias or conditions.

☒ I have read and accept

OK

Recordings Dashboard – Review Patient Recordings

After successful login you will be directed to the Recordings Dashboard. The dashboard will show the list of your patients with recent recordings that are ready for review. You may scroll through your patients, filter columns, or search. Clicking on a patient row will open the Patient Record view of all available recordings.

Filter & Search Functions

- **Filters:** A clinician may use the Filter function to sort through recordings by Symptoms, Recording Date, and Review Status
- **Search:** A clinician may use Search to look for patient recordings by symptoms, name, and patient ID.

Recordings Dashboard - Columns	
Name	First Name Last Name
Patient ID	Registered Patient ID
Last Recording	Mon DD, YYYY of Most Recent Recording
Symptoms	A heart icon indicates that a user noted they experienced symptoms. Hover over the icon to view their symptoms.
Physician Assessment	Initial ECG review completed by the clinician
Review Status	Pending Review, Awaiting Signature, or Reviewed and Signed

Welcome back

New Recordings

since Jan 1, 2022

Filter

Q Search

Name	Patient ID	Last Recording	Symptoms	Physician Assessment ?	Review Status ↓
Phoenix Baker	A1B2C3D4E5F6	Sep 4, 2025	!	Atrial Fibrillation	• Awaiting Signature
Lana Steiner	G7H8I9J0K1L2	Sep 4, 2025	!	Atrial Fibrillation	• Awaiting Signature
Demi Wilkinson	M3N4O5P6Q7R8	Sep 4, 2025	!	Sinus with wide QRS	• Awaiting Signature
Natali Craig	S9T0U1V2W3X4	Sep 3, 2025	!	Atrial Fibrillation	• Awaiting Signature
Drew Cano	Y5Z6A7B8C9D0	Sep 3, 2025		Atrial Fibrillation	• Awaiting Signature
Orlando Diggs	E1F2G3H4I5J6	Sep 3, 2025		Sinus with wide QRS	• Awaiting Signature
Andi Lane	K7L8M9N0O1P2	Sep 3, 2025		Atrial Fibrillation	• Awaiting Signature
Kate Morrison	Q3R4S5T6U7V8	Sep 3, 2025			• Pending Review
Candice Wu	W9X0Y1Z2A3B4	Sep 3, 2025			• Pending Review

← Previous


1 2 3

Next →

The Patients Dashboard – Listing of Your Patients

After successful login you will be directed to the Patient Dashboard. The dashboard will show the list of your patients. You may scroll through your patients, filter columns, or search. Clicking on a patient row will open the Patient Record view of all available recordings.

Clinician Dashboard View - Columns	
Name	Last Name, First Name
Date of Birth	DD Month, YYYY
Patient ID	Alphanumeric ID assigned by Clinic/Hospital
Last Recording	MM/DD/YYYY of Most Recent Recording
Recordings Pending Review	Count (#)
Patient Status	Onboarding Complete, Pending, or Update Required


Investigational Use Only

Pleasantville Clinic
Name

Dashboard
Patients
Register Patient

Patients
100 users

Filter
Search

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Name	Date of Birth	Patient ID	Last Recording	Recordings Pending Review	Review Status																				
Phoenix Baker	27 Apr, 1961	A1B2C3D4E5F6	Jan 4, 2022	0	Completed																				
Lana Steiner	12 Dec, 1948	G7H8I9J0K1L2	Jan 4, 2022	1	Pending																				
Demi Wilkinson	23 Feb, 1952	M3N4O5P6Q7R8	Jan 4, 2022	0	Update Required																				
Candice Wu	12 Dec, 1948	S9T0U1V2W3X4	Jan 4, 2022	0	Completed																				
Natali Craig	27 Apr, 1961	Y5Z6A7B8C9D0	Jan 4, 2022	3	Completed																				
Drew Cano	23 Feb, 1952	E1F2G3H4I5J6	Jan 4, 2022	2	Pending																				
Orlando Diggs	12 Dec, 1948	K7L8M9N0O1P2	Jan 4, 2022	0	Completed																				
Andi Lane	27 Apr, 1961	Q3R4S5T6U7V8	Jan 4, 2022	1	Pending																				
Kate Morrison	12 Dec, 1948	W9X0Y1Z2A3B4	Jan 4, 2022	1	Completed																				

Previous
1 2 3 ... 8 9 10
Next

Finding Patient Record

You may find a patient record by using the **Search tool**, Selecting the Letter associated with the patient's last name (e.g. S for Smith), or scrolling through the table.

Heart Beam™
Investigational Use Only

Q Search

Pleasantville Clinic Name

Dashboard

Patients

+ Register Patient

Patients 100 users

Filter

Q Search

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Name	Date of Birth	Patient ID	Last Recording	Recordings Pending Review	Review Status ↓
Phoenix Baker	27 Apr, 1961	A1B2C3D4E5F6	Jan 4, 2022	0	Completed
Lana Steiner	12 Dec, 1948	G7H8I9J0K1L2	Jan 4, 2022	1	Pending
Demi Wilkinson	23 Feb, 1952	M3N4O5P6Q7R8	Jan 4, 2022	0	Update Required
Candice Wu	12 Dec, 1948	S9T0U1V2W3X4	Jan 4, 2022	0	Completed


Patient Summary – Reviewing All Available Recordings

The **Patient Summary** includes a table listing of **All Assessment Recordings** for the patient, including their Assessment AIMiGo 3-Lead ECGs and their Assessment Synthesized 12-Lead ECGs.

NOTE: If a patient has not yet completed their onboarding the Onboarding Status will display as **Pending**.

Patient Summary View - Columns	
Recording Date and Time	Timestamp of when the recording was completed using the AIMiGo Device
Symptoms	Patient logged symptoms associated with the recording
Physician Assessment	Clinician Assessment after review
Review Status	Clinician Review Status: Reviewed and Signed, Awaiting Signature, Pending Review

To view a recording simply click on the desired row. This will open the **ECG Viewer** window where you may toggle between the 3-Lead Assessment and 12-Lead Assessment recording view.


Investigational Use Only

Pleasantville Clinic
Name

Dashboard
Patients

+
Register Patient

Clinical Notes

No patient history

Re-Registration
^

Patient's recording signals can change over time. To prevent inaccurate 12-lead ECG synthesis, patients should Re-Register with a new Standard 12L & HeartBeam 3L Recordings if any of these apply:

- It's been 1 year since their Registration
- Patient's weight has changed by ± 10 lbs or more
- Patient reported diagnoses or procedures that affect the thoracic cavity

Re-Register Patient

Patient Information

Name: Lana Steiner **Patient ID:** A1B2C3D4E5F6
Sex: Female **Onboarding:** 3/13/2021
DOB: 4/27/1961 **Device ID:** 608A8239D233

Last Recording
All Recordings

All Recordings

Download
Filter
Search

<input type="checkbox"/> Recording Date and Time	Symptoms	Physician Assessment	Review Status
<input type="checkbox"/> Sep 4, 2025 6:01pm	Light Headed		Pending Review
<input type="checkbox"/> Sep 3, 2025 5:01pm	Chest Pain	Normal Sinus Rhythm	Reviewed and Signed
<input type="checkbox"/> Sep 3, 2025 3:01pm	Light Headed, Dizziness	Normal Sinus Rhythm	Awaiting Signature
<input type="checkbox"/> Sep 3, 2025 2:01pm		Normal Sinus Rhythm	Reviewed and Signed
<input type="checkbox"/> Sep 3, 2025 12:01pm		Normal Sinus Rhythm	Reviewed and Signed

NOTE: You may click **Patients** tab to return to the Patient Dashboard and review the list of all your patients.

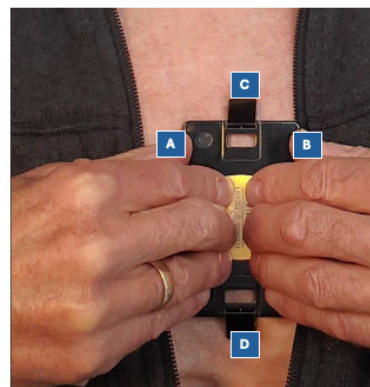
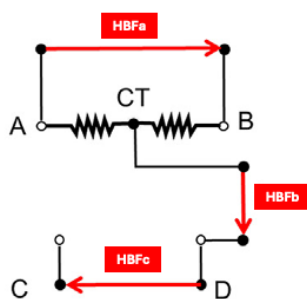
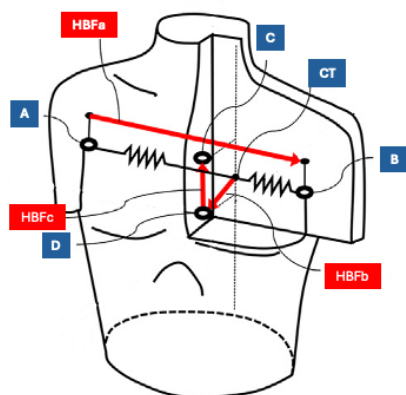
ECG Viewer – Leads & Device Electrodes

The system records cardiac electrical signals using three separate leads to capture the heart's electrical activity from three directions. Each lead gathers unique information, and together they provide a comprehensive overview of the heart.

NOTE: While the three leads are representing different directions, these leads are not orthogonal between each other, are not collected according to "Frank" lead system, and do **not** represent a Vectorcardiograph.

Within the **ECG Viewer** 3-Lead window, three leads are presented: HBFa ("Lead a"), HBFb ("Lead b"), and HBFc ("Lead c"). These leads are based on electrodes that contact the Right ("A") and Left ("B") Thumbs and the Upper ("C") and Lower ("D") chest.

- HBFa / Lead a correlates with Standard Lead I (Right ("A") to Left ("B") Thumb Electrodes)
- HBFb / Lead b is a non-standard lead, front to back (Lower Chest electrode ("D") to the approximate Central Terminal (CT) of the heart)
- HBFc / Lead c is a non-standard lead, head to toes (Upper ("C") to Lower ("D") Chest Electrodes)



ECG Viewer – Reviewing the 3-Lead ECG

The ECG Viewer displays the selected ECG Recording:



NOTE: The CRM Filter is applied to all recordings. The CRM filter includes methods to reduce Electromyographic (EMG) and Baseline Wander noise. These filters cannot be disabled by the user. For a description of these filters see Appendix A.

CAUTION: Filters applied may impact the ECG signal morphology, including significant attenuation of low-level atrial activity (P-waves / Flutter-waves), which may result in inability to discriminate certain types of arrhythmias (e.g., Atrial Fibrillation/Atrial Flutter). The ECG report produced by HeartBeam AIMiGo is not intended for analysis of the T-wave or other morphological ECG evaluation.

To return to the Patient Record view click **Go Back**.

ECG Viewer Functions

The **ECG Viewer** displays the ECG recording you have selected from the patients **Patient Record** window.

3-Lead ECG / 12-Lead ECG Toggle View (A)

The Assessment 3-Lead ECG (“3-Lead”) is enabled by default. You may review the Assessment 12-Lead ECG (“12-Lead”) by clicking the **12 Leads** button.

3-Lead and 12-Lead View – Skip Ahead (B)

Within the 3-Lead and 12-Lead View you may skip ahead to shift the strip ahead by 5 or 10 seconds. Click **Skip 5s** or **Skip 10s** as needed.

3-Lead View – Filtering (C)

Within the 3-Lead View you may toggle the 60Hz filter on or off. The 60Hz filter helps to remove powerline interference.


NOTE: the CRM Filter is enabled ON all recordings by default. The CRM filter includes methods to reduce Electromyographic (EMG) and Baseline Wander noise. These filters cannot be disabled by the user. For a description of these filters see Abbreviations & Definitions section.

Print Function (D)

Within either the 12-Lead or 3-Lead View you may click the **Print** button to generate a PDF copy of the current view.

(A) 3-Lead/12-Lead Toggle	(B) Skip Ahead	(C) Filter	(D) Print to PDF
<input checked="" type="radio"/> 3 Leads <input type="radio"/> 12 Leads	<input checked="" type="radio"/> 3 Leads <input type="radio"/> 12 Leads	<input checked="" type="radio"/> 3 Leads <input type="radio"/> 12 Leads	<input checked="" type="radio"/> 3 Leads <input type="radio"/> 12 Leads
<input checked="" type="radio"/> No skip <input type="radio"/> Skip 5s <input type="radio"/> Skip 10s	<input checked="" type="radio"/> No skip <input type="radio"/> Skip 5s <input type="radio"/> Skip 10s	<input checked="" type="radio"/> No skip <input type="radio"/> Skip 5s <input type="radio"/> Skip 10s	<input checked="" type="radio"/> No skip <input type="radio"/> Skip 5s <input type="radio"/> Skip 10s
<input checked="" type="radio"/> CRM <input type="radio"/> CRM+60Hz	<input checked="" type="radio"/> CRM <input type="radio"/> CRM+60Hz	<input checked="" type="radio"/> CRM <input type="radio"/> CRM+60Hz	<input checked="" type="radio"/> CRM <input type="radio"/> CRM+60Hz
PRINT	PRINT	PRINT	PRINT

ECG Viewer – Reviewing the Assessment 12-Lead ECG

 **WARNING:** The synthesized 12-L ECG output is contraindicated for the assessment of any urgent, serious, or life-threatening conditions or arrhythmias. The synthesized 12-L ECG output is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex.

An Assessment 12-Lead ECG is an output of the AIMiGo 12-L ECG Synthesis Software that is generated for assessment (both for asymptomatic, routine monitoring recordings and symptomatic recordings purposes).

You may review the Assessment 12-Lead ECG (“12-Lead”) by clicking the **12 Leads** button to toggle from the 3-Lead view. The Assessment synthesized 12-Lead ECG (presented in **Blue**) reflect a patient's current ECG status and is overlaid with the Baseline Synthesized 12-Lead ECG (Presented in **Purple**) for assessment of clinically relevant changes. For a full description of the recordings see Abbreviations & Definitions section.

NOTE: The CRM Filter is applied to all recordings. The CRM filter includes methods to reduce Electromyographic (EMG) and Baseline Wander noise. These filters cannot be disabled by the user. For a description of these filters see Appendix A.

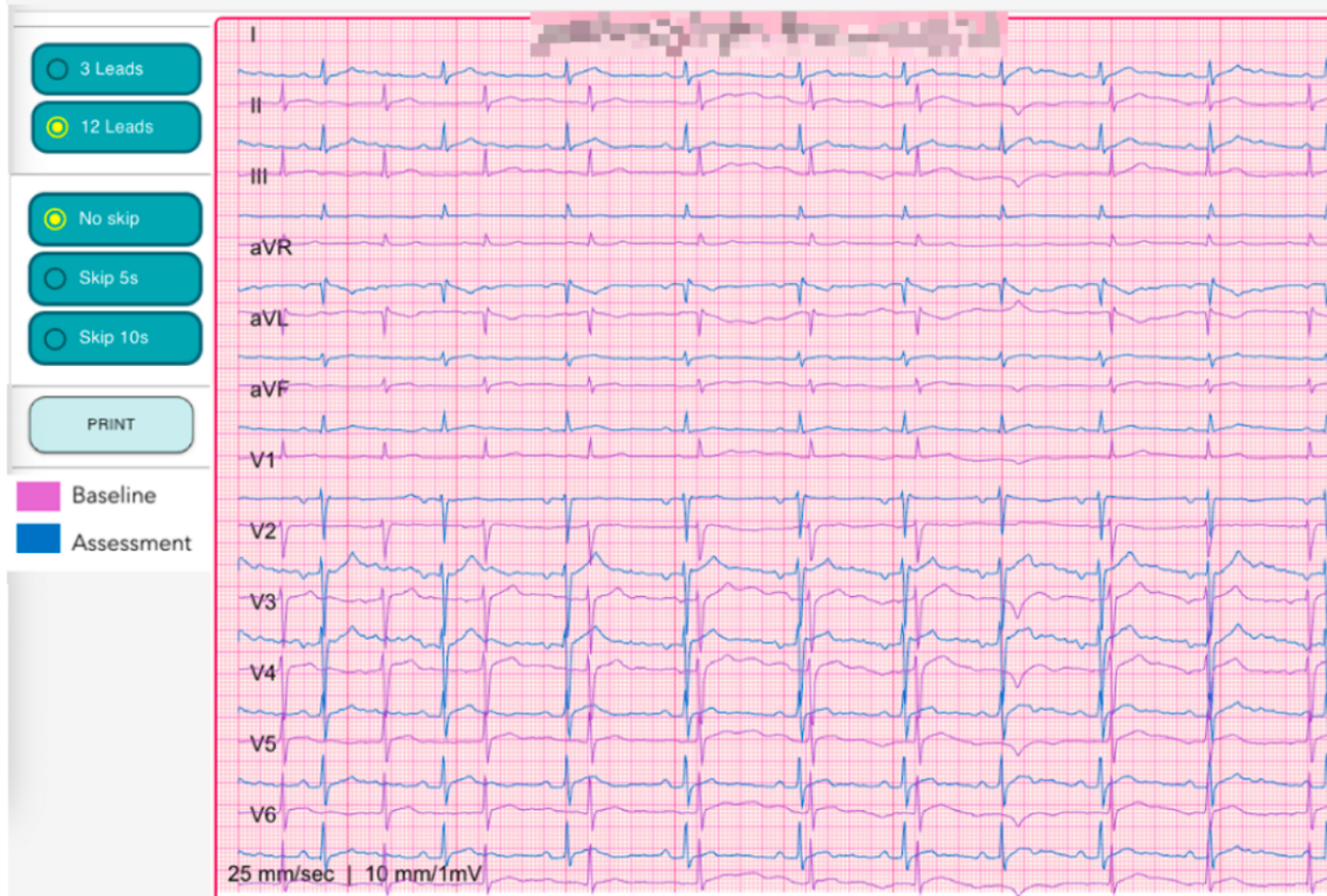
CAUTION: Filters applied may impact the ECG signal morphology, including significant attenuation of low-level atrial activity (P-waves / Flutter-waves), which may result in inability to discriminate certain types of arrhythmias (e.g., Atrial Fibrillation). The ECG report produced by HeartBeam AIMiGo is not intended for analysis of the T-wave or other morphological ECG evaluation.

NOTE: The synthesized 12-Lead ECG (including PDF reports) is not intended to replace traditional methods of diagnosis or standard of care, and no clinical action should be taken solely based on the device output.

← Go Back

Warning: The synthesized 12-L ECG output is contraindicated for the assessment of any urgent, serious, or life-threatening conditions or arrhythmias. ^
The synthesized 12-L ECG output is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex.

Caution: Filters applied may impact ECG signal morphology, including attenuation of P-waves or fibrillation waves on certain leads. Please refer to the User Manual for additional information.



Click **Go Back** to return to the Patient Record view.

Patient Registration & Onboarding

After prescribing the HeartBeam AIMIGo device to your patient you must register them in the Clinician Portal, assign their device, and upload a Reference Standard 12-Lead ECG captured from the EDAN SE-1515 DX-12. The patient will complete the onboarding process on their mobile device.

Registering a New Patient

To begin a new patient registration, click **+ Register Patient** from the Patient Dashboard.

The screenshot displays the HeartBeam Clinician Portal interface. At the top, the header includes the HeartBeam logo, a search bar, and the clinic name 'Pleasantville Clinic'. Below the header, a navigation bar contains 'Dashboard' and 'Patients' tabs, with a red box highlighting the '+ Register Patient' button. The main content area shows a 'Welcome back, John' message and a 'New Recordings' section with a filter for 'since Jan 1, 2022'. Below this is a table of patient data.

Name	Patient ID	Last Recording	Symptoms	Physician Assessment ?	Review Status ↓
Phoenix Baker	A1B2C3D4E5F6	Sep 4, 2025	❤️	Atrial Fibrillation	● Awaiting Signature

In the **New Registration** window on enter the Patient Information on the **Register Patient** page. Ensure that the Required fields are completed.

- Last Name
- First Name
- Date of Birth
- Patient ID
- Patient Weight
- Prescribing Physician

Other fields are optional, click **Next** to continue.

Heart Beam
Investigational Use Only

Pleasantville Clinic Name

Dashboard Patients **New Registration**

New Registration

Register Patient Assign Device Upload Baseline ECG Complete Onboarding

Patient Information

Last Name*
First Name*
Date of Birth*
Patient ID*
Patient Weight*
Sex assigned at birth ☐ Male ☐ Female ☐ Choose not to disclose
Sex ☐ Man ☐ Woman ☐ Non-binary

Provider

Prescribing Provider*
Referring Provider

Address

Street Address City State*
Street Address 2 Country

Preferred Communication Method

☐ Text ☐ Email ☐ Phone call
Phone Number

Clinical Notes

Enter a note...

Back Save Next

Assigning an AIMiGo Device

In the **Assign Device** page, enter the **Serial Number ("SN")** from the HeartBeam AIMiGo device being provided to the patient. The Serial Number is found on the back of the device packaging as well as the AIMiGo device label (e.g. SN A000001). Click **Next** to continue.

The image shows the back of the AIMiGo device packaging with a label containing the following information:

MD	RX Only
SN	A000001
REF	2001A

HEARTBEAM, INC.
2118 WALSH AVE.
SUITE 210
SANTA CLARA, CA 95051

MM-DD-YY

(01) 0085004867-028
(11) YYMMDD
(21) A000001

FOR EVALUATION USE ONLY

The packaging also features instructions: "PLACE THIS SIDE AGAINST CHEST" and "SLIDE OPEN".

The "New Registration" workflow is shown with four steps: Register Patient, Assign Device, Upload Reference ECG, and Complete Onboarding. The "Assign Device" step is currently active.

Assign Device

Serial Number

A000001

Remove

Confirm the SN matches the device being registered and click **Confirm**.

Confirm Device

Confirm Serial Number (A000001) matches the device being assigned to the Patient

Cancel Confirm

Uploading a Standard 12-Lead ECG

In the **Upload Standard ECG** page, you may drag and drop the 12-Lead .XML file from your computer file explorer window or click the **Click to Upload** link to open the file explorer and select the .XML file directly.

CAUTION: the 12-Lead Synthesis feature relies on the correct patient XML file being uploaded. When uploading, ensure that the XML file matches the Patient Information on the screen.

CAUTION: the 12-Lead Synthesis feature relies on a compatible file (in XML format) being uploaded from the EDAN SE-1515 DX-12. If the file is not accepted the system will generate an error message to try again. Contact HeartBeam Support for assistance in ensuring compatibility with the HeartBeam Portal and configuring your 12-Lead ECG machine.

Once the XML file has been uploaded the file name is displayed.



Dashboard Patients **New Registration**

New Registration

Register Patient Assign Device **Upload Reference ECG** Complete Onboarding

Reference 12-L ECG Collection

Please record a 12-L ECG and upload the file

 Orlando_Diggs_DOB1970-02-10.XML 

Patient Information

Name: Orlando Diggs
DOB: 2/10/1970
Patient ID: VNX1234
Sex: Male

Click **Next** to continue, then confirm the XML file matches the Patient Information and click **Confirm**.

Confirm File Upload X

Please confirm that the information in the 12-L ECG XML file matches the Patient Info.

Cancel Confirm

Review Patient Information & Mobile App Download

In the **Complete Onboarding** page enter the patient's mobile phone number and click 'Verify'. The patient will use their mobile phone number as part of their login credentials on their mobile app.

Below the Mobile Registration there is a QR code to download the HeartBeam AIMiGo Mobile Application from the Google Play Store (for Android users) or the Apple App Store (for iPhone users). The patient may scan the QR code using their mobile device camera to access the app for download. Alternatively, the patient may manually search the respective app store for the mobile application.

Review the Patient information for accuracy, then click **Complete Onboarding** to continue.

Patient Onboarding

The HeartBeam AIMiGo Mobile Application will guide the patient through the remainder of their onboarding process. This includes updating their login credentials, learning to charge the device, pair it to the mobile device via Bluetooth, and completing three AIMiGo 3-Lead ECG recordings. Click **Done** to close the registration window.

CAUTION: Patients should not complete Patient Onboarding if they are feeling unwell or are experiencing any cardiac related symptoms (such as heart palpitations, dizziness, light headedness, etc.).

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Pleasantville Clinic Name

Dashboard Patients **New Registration**

New Registration

Register Patient Assign Device Upload Reference ECG **Complete Onboarding**

Mobile Registration
Mobile Number for Account Registration and App Login*

(949) 235-8982

Download Patient App

Scan QR Code on patient's device (i.e. smartphone or tablet) to download the app.
If you are unable to scan the QR code, please download the app by visiting the Apple App Store or Google Play and searching "HeartBeam".

Follow these steps with the Patient to complete registration

1. Put the device in charging dock to charge for 30 seconds.
2. Open the app on patient's own device and create a password to log-in.
3. Review onboarding instructions and help patients take 3 Onboarding ECG recordings.
4. Complete Onboarding with 3 successful ECG recordings.

Back Complete Onboarding

Patient Onboarding Status

Once the patient has completed their onboarding steps their **Onboarding Status** will be updated on the Patient Dashboard from **Pending** to **Complete**. This status is also displayed in the Patient Record in Patient Information window.

NOTE: AIMiGo Assessment recordings are only available after the patient has completed onboarding.

Heart Beam[™]

Investigational Use Only

Pleasantville Clinic

Dashboard

Patients

+ Register Patient

Patients 100 users

Filter

Search

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Name	Date of Birth	Patient ID	Last Recording	Recordings Pending Review	Review Status ↓																				
Phoenix Baker	27 Apr, 1961	A1B2C3D4E5F6	Jan 4, 2022	0	Completed																				
Lana Steiner	12 Dec, 1948	G7H8I9J0K1L2	Jan 4, 2022	1	Pending																				
Demi Wilkinson	23 Feb, 1952	M3N4O5P6Q7R8	Jan 4, 2022	0	Update Required																				
Candice Wu	12 Dec, 1948	S9T0U1V2W3X4	Jan 4, 2022	0	Completed																				
Natali Craig	27 Apr, 1961	Y5Z6A7B8C9D0	Jan 4, 2022	3	Completed																				
Drew Cano	23 Feb, 1952	E1F2G3H4I5J6	Jan 4, 2022	2	Pending																				
Orlando Diggs	12 Dec, 1948	K7L8M9N0O1P2	Jan 4, 2022	0	Completed																				
Andi Lane	27 Apr, 1961	Q3R4S5T6U7V8	Jan 4, 2022	1	Pending																				
Kate Morrison	12 Dec, 1948	W9X0Y1Z2A3B4	Jan 4, 2022	1	Completed																				

← Previous

1 2 3 ... 8 9 10

Next →

When to initiate a Patient Re-Registration

A patient's personalized transformation matrix (PTM) may require renewal over time or under certain circumstances that may affect the tissue composition in the thorax area. These changes may impact the electrical signal propagation from the AIMIGo device recordings, which are required for PTM generation (and subsequently, 12-Lead Synthesis). To renew the PTM you will follow the Patient Re-Registrations steps update the patient profile with new recordings.

A Patient Re-Registration may be required when the following has occurred:

- A minimum of **1 year** has elapsed since the last Onboarding Recording Session.
- Your patient has experienced a weight change (gain or loss) of **at least 10 lbs**.
- Clinical circumstances that may impact tissue composition in the thoracic cavity have occurred:
 - Occurrence of changes in fluid or air in the lungs. This includes, but is not limited to the following:
 - Pulmonary Edema
 - Chronic Obstructive Pulmonary Disease (COPD)
 - Emphysema
 - Atelectasis
 - Pleural Effusion
 - Pneumothorax
 - Hemothorax
 - Tumors or Masses in the Thoracic Cavity

PTM Notifications & Reminders

The Portal will display the below notification when **1 year** has elapsed since their onboarding/last PTM update:

1 year has elapsed since the patient's Registration. Patient requires an Re-Registration (Standard 12L & HeartBeam 3L recordings).

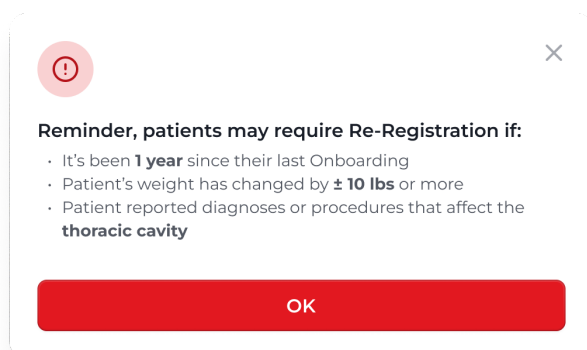
[Re-Register Patient](#)

The Portal will display the below notification when the patient has logged a weight change (**at least 10 lbs**) from the Patient Application:

Patient indicated a weight change of ± 10 lbs and requires Re-Registration (Standard 12L & AIMIGo 3L recordings).

[Dismiss](#) [Re-Register Patient](#)

Note: The Portal will provide periodic reminders to proactively review your patient medical records for these occurrences. Care should be taken to periodically review patient medical records for any changes that may warrant a new PTM appointment:



How to Perform a Patient Re-Registration

Once you have determined that a Patient Re-Registration is necessary, initiate the Re-Registration process then schedule an appointment with the patient in a timely manner.

Note: It is important to initiate the process in a timely manner to ensure the PTM remains as accurate as possible.

Initiate the Patient Re-Registration Process

To initiate the Patient Re-Registration process, you may either select '**Re-Register Patient**' in the notification bar (if available, in the case of weight change or annual update) or select '**Re-Register Patient**' under the Clinical Notes window.

The screenshot displays the HeartBeam web application interface. At the top, the header includes the HeartBeam logo with the text 'Investigational Use Only', a search bar, and a dropdown menu for 'Pleasantville Clinic'. Below the header is a navigation bar with 'Dashboard' and 'Patients' tabs, and a red '+ Register Patient' button. A yellow notification banner at the top of the main content area states: '1 year has elapsed since the patient's Registration. Patient requires an Re-Registration (Standard 12L & HeartBeam 3L recordings).' and contains a 'Re-Register Patient' link. Below this, the 'Clinical Notes' section shows 'No Patient History' and a 'Re-Registration' subsection. The 'Re-Registration' section contains text explaining the need for re-registration and a list of conditions: 'It's been 1 year since their Registration', 'Patient's weight has changed by ± 10 lbs or more', and 'Patient reported diagnoses or procedures that affect the thoracic cavity'. A 'Re-Register Patient' button is located at the bottom of this section. To the right, the 'Patient Information' section displays details for Demi Wilkinson, including Patient ID, Sex, DOB, Onboarding date, and Device ID. Two red arrows point to the 'Re-Register Patient' links in the notification banner and the Clinical Notes section.

Confirm that you would like to initiate the Patient Re-Registration by clicking '**Confirm**' in the pop-up window:

The image shows a confirmation pop-up window. It has a close button (X) in the top right corner. On the left is a circular icon with a checkmark. The text inside the window reads: 'Please confirm that you would like to proceed with the Patient Re-Registration, which **requires the patient in clinic** to take a Standard 12-Lead and AIMiGo 3-Lead Recordings.' At the bottom is a large teal button labeled 'Confirm'.

Completing the Patient Re-Registration Process (3-Steps)

1. Update Patient Weight

First, enter the Patient weight within the Patient Information Window.

2. Upload new Standard 12-Lead ECG

Collect a new standard 12-Lead ECG recording from the EDAN SE-1515 DX-12, saved as an XML file. You may drag and drop the Standard 12-Lead ECG .XML file from your computer file explorer window or click the **'Click to upload'** link to open the file explorer and select the .XML file directly.

CAUTION: the 12-Lead Synthesis feature relies on the correct patient XML file being uploaded. When uploading, ensure that the XML file matches the Patient Information on the screen.

CAUTION: the 12-Lead Synthesis feature relies on a compatible file (in XML format) being uploaded from the EDAN SE-1515 DX-12. If the file is not accepted the system will generate an error message to try again. Contact HeartBeam Support for assistance configuring your 12-Lead ECG machine to export compatible files.

3. Complete new AIMiGo 3-Lead Onboarding Recordings

Assist Patient in completing three AIMiGo 3-Lead recordings using the Patient Application and AIMiGo device. [See D-10001 HeartBeam AIMiGo Patient User Manual for more information.]

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Pleasantville Clinic Name

Dashboard Patients Re-Registration

Re-Register Patient

Patient Information

Name: Demi Wilkinson
DOB: 4/27/1961
Patient ID: A1B2C3D4E5F6
Sex: Female
Patient Weight (lbs)*
e.g. 152

Collect Standard 12-L ECG

Please record a standard 12-L ECG and upload the file

DemL.Wilkinson_DOB19610427.XML

Clinical Notes

Enter a note...

Follow these steps with the Patient to update onboarding

1. Open the app on patient's own device and have patient log in.
2. Review onboarding instructions and help patients take 3 Onboarding ECG recordings.
3. Complete Onboarding with 3 successful ECG recordings.

Cancel Complete Re-Registration

The **'Complete Re-Registration'** button will highlight red once the patient has completed their new AIMiGo recordings. Click to complete the process.

Patient Assessment Recordings Uploaded before the Re-Registration is Complete

While the timely scheduling of a patient appointment to complete the Re-Registration is encouraged, the patient may still upload AIMiGo Assessment recordings from home before the process has been completed in clinic. For these interim recordings the portal will caution that ***“Patient Re-Registration pending or incomplete. Note, this may impact the accuracy of the AIMiGo 12-Lead ECG Synthesis. In the interim, please use the AIMiGo 3-Lead ECG for patient assessments.”*** Click **‘Complete Patient Re-Registration’** to complete the process. See the *ECG Viewer – Reviewing the 3-Lead ECG* section for more details about the 3-Lead View.

The screenshot displays the HeartBeam patient portal interface. At the top, the header includes the HeartBeam logo, a search bar, and a dropdown menu for 'Pleasantville Clinic'. Below the header, a navigation bar contains 'Dashboard', 'Patients', and a red 'Register Patient' button. A prominent yellow caution box with a red border is positioned at the top of the main content area. It contains the following text: 'Patient Re-Registration pending or incomplete. Note, this may impact the accuracy of the AIMiGo 12-Lead ECG Synthesis. In the interim, please use the AIMiGo 3-Lead ECG for patient assessments.' Below this text are two buttons: 'Complete Patient Re-Registration' and 'Cancel Patient Re-Registration'. The main content area is divided into two columns. The left column, titled 'Clinical Notes', contains a paragraph about a patient's medical history and a section titled 'Re-Registration' which includes a warning about recording signals and a list of conditions requiring re-registration. The right column, titled 'Patient Information', displays fields for Name, Sex, DOB, Patient ID, Onboarding date, and Device ID. A 'Re-Register Patient' button is located at the bottom of the left column.

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Search

Pleasantville Clinic Name

Dashboard Patients + Register Patient

Patient Re-Registration pending or incomplete. Note, this may impact the accuracy of the AIMiGo 12-Lead ECG Synthesis. In the interim, please use the AIMiGo 3-Lead ECG for patient assessments.

Complete Patient Re-Registration Cancel Patient Re-Registration

Clinical Notes

Patient's medical history includes a previous diagnosis of hypertension and a surgery for gallbladder removal on 9/10/2024. Regular follow-ups are scheduled to monitor recovery and manage any potential complications.

Re-Registration

Patient's recording signals can change over time. To prevent inaccurate 12-lead ECG synthesis, patients should Re-Register with a new Standard 12L & HeartBeam 3L Recordings if any of these apply:

- It's been 1 year since their Registration
- Patient's weight has changed by ± 10 lbs or more
- Patient reported diagnoses or procedures that affect the thoracic cavity

Re-Register Patient

Patient Information

Name: Phoenix Baker Patient ID: A1B2C3D4E5F6
Sex: Male Onboarding: 9/8/2024
DOB: 4/24/1971 Device ID: 608AB239D233

This Caution will also be present on the ECG Viewer and Reports:

ECG Analysis

Phoenix Baker

Recorded on Sep 4, 2025 at 6:01 PM

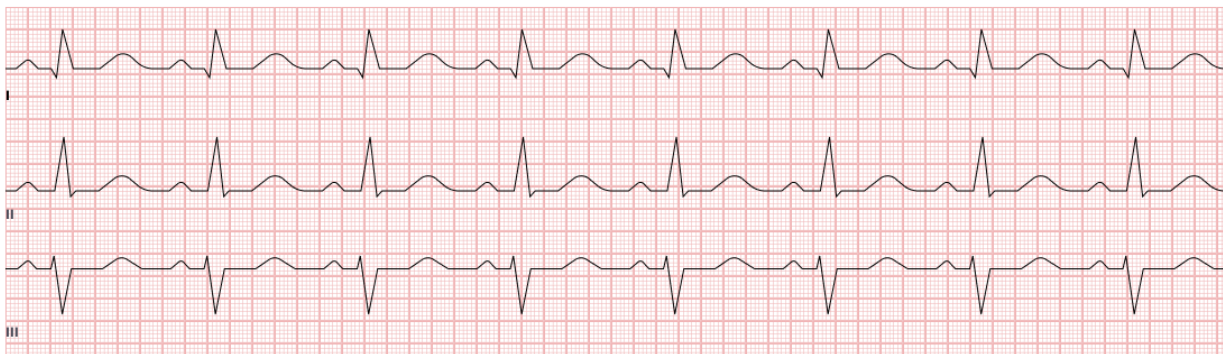
♥ 62 BPM Average

ECG Assessment: Atrial Fibrillation

Warning: The synthesized 12-L ECG output is contraindicated for the assessment of any urgent, serious, or life-threatening conditions or arrhythmias. The synthesized 12-L ECG output is solely intended for manual assessment of normal sinus rhythm and the following non-life-threatening arrhythmias: sinus arrhythmia, sinus tachycardia, sinus bradycardia, atrial premature complexes, atrial fibrillation, and ventricular premature complex.

Caution: Re-Registration pending, which may impact the accuracy of the AIMiGo 12-Lead ECG Synthesis. Please use the AIMiGo 3-Lead ECG for patient assessments.

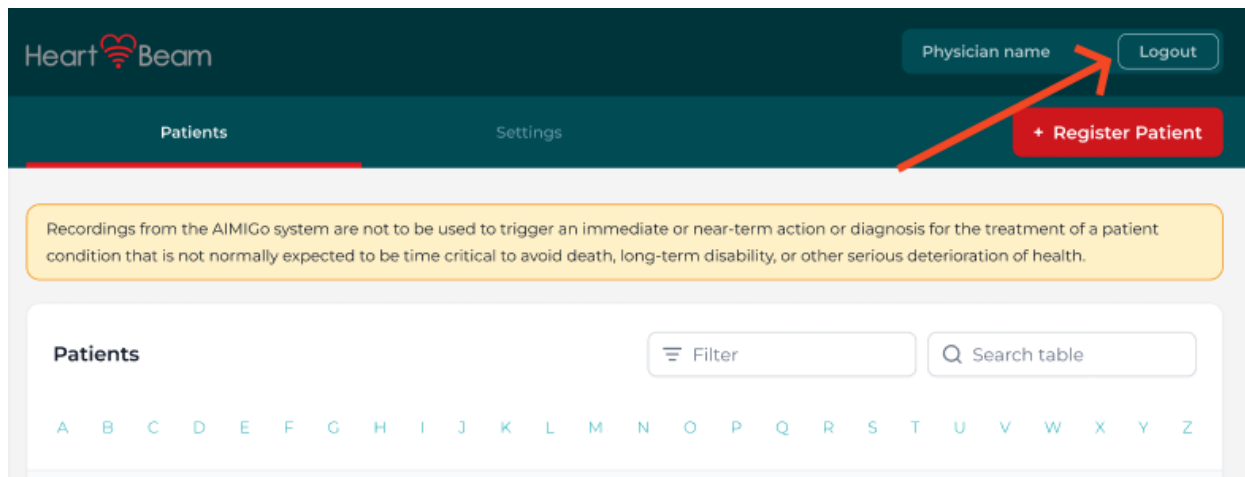
Filters applied may impact ECG signal morphology, including attenuation of P-waves or fibrillation waves on certain leads. Please refer to the User Manual for additional information.















Logging Out of the Portal






To log out of the Clinician Portal, click ‘**Logout**’ at the top right corner of the screen.’ This will securely end your session.

NOTE: As a best practice, log out of the portal whenever you have completed use of the portal. Additionally, the Portal will automatically log out after 10 minutes of inactivity.



Symbols & Definition

Symbol	Description	Notes
	Warning: Consult Accompanying Documents	
	Consult instructions for use	
	Manufacturer	HeartBeam, Inc.
	Type BF Applied Part	
IP52	Ingress Protection Rating	Device protected against limited dust ingress and dripping water up to 15° from vertical
	Keep Dry	Device packaging should be kept dry
	For Prescription Use Only (U.S.)	
	Warning: MR-Unsafe. Do not use the equipment near an MRI machine / MRI scan room.	
	Date of Manufacturer	e.g. MM-DD-YYYY; 01-01-2025
	Lot / Batch Number	e.g. LOT XXXX
	Medical Device	
	Unique Device Identifier (UDI)	Both human and machine readable
	Serial Number	e.g. A000001

REF	Catalog or Model Number	e.g. 2002A
	Non-Sterile	
	Single Patient Multiple Use	
	Storage Temperature Limit	
	Do not use if package is damaged	
	Do Not dispose with household waste	

Customer Support Contact Information

For assistance in setting up, using, or maintaining the AIMIGo Device, or to report any unexpected operating events, contact Customer Service:

Customer Support Toll-free number: **1-(844) 4-HEARTB** 1-(844)-443-2782

Customer Support E-mail: Support@heartbeam.com

Mail to: **HeartBeam Inc., 2118 Walsh Ave., Ste 210, Santa Clara, CA 95050**

Manufacturer



HeartBeam, Inc.

2118 Walsh Ave. Ste 210

Santa Clara, CA 95050

www.heartbeam.com

Appendix A – EMG and Baseline Wander Filtering

EMG

Electromyographic (EMG) noise refers to unwanted interference generated by muscle activity that contaminates the ECG signal. This noise can obscure the underlying cardiac activity, making it challenging to accurately interpret the ECG recording. EMG noise typically manifests as high-frequency spikes or fluctuations in the ECG signal, often occurring during movements or muscle contractions. To mitigate the effects of EMG noise, HeartBeam has developed an enhanced filter referred to as the Iterative Regeneration Method (IRM), a novel method for efficient EMG-noise suppression. The main hypothesis behind the method is that the temporary removal of the dominant ECG components (QRS complexes and T waves) which enables the extraction of the noise with the minimum alteration to the signal. Filters applied may impact the ECG signal morphology, including significant attenuation of low-level atrial activity (P-waves / Flutter-waves), which may result in inability to discriminate certain types of arrhythmias (e.g., Atrial Fibrillation/Atrial Flutter).

Baseline Wander

Baseline wander is a low-frequency noise that can distort the true signal, often caused by patient movement, respiration, or poor electrode contact. Cubic spline filtering is a mathematical technique used to correct baseline wander in electrocardiogram (ECG) signals and other physiological recordings. This approach is the foundation of the HeartBeam approach to baseline wander removal. The filter applied may impact the ECG signal, including T wave amplitude and morphology. Filters applied may impact the ECG signal morphology, including significant attenuation of low-level atrial activity (P-waves / Flutter-waves), which may result in inability to discriminate certain types of arrhythmias (e.g., Atrial Fibrillation/Atrial Flutter).