

vive[®]
PRECISION



ECG MONITOR

Owner's Manual
DMD103OBLK

OVERVIEW

We are constantly answering questions and recording helpful videos to make using your Vive Precision ECG Monitor as easy as possible. Check out the included link and QR code to help you through the process.

WHAT'S INCLUDED

- ECG Monitor
- USB Charging Cable
- Storage Case

QUICK START GUIDE

1. Press and hold the button until the device powers on.

2. Hold both ends of the device so that the metal probes are firmly on your skin. You may follow any of the four methods illustrated below:





Please note that the first application is typically the most accurate. However, the other methods can be utilized if you have

limited mobility or trouble performing another method. Accuracy may vary slightly depending on the method you choose.

3. Hold the device in place until your results show on the screen.

Note: You will hear a few beeps that indicate heart beats, this does not mean that the reading is over. Do not move the device until your final results show on the screen.

4. On the Vive Precision app, you can view the waveform graph and previous measurements.
5. To view between previous results on the device screen, press the button to toggle through old readings.

Detected Condition

Missed Beat

May be the conduction system of heart blocks, it often occurs in functional cardiovascular disease, Hyperthyroidism and myocardial disease. But sometimes it occurs in healthy people whose vagus is excited excessively (such as trained athletes).

Accidental VPB

Ventricular premature beats (VPB) are single ventricular impulses caused by re-entry within the ventricle or abnormal automaticity of ventricular cells. They are extremely common in both healthy patients and patients with a heart disorder. VPB may be asymptomatic or cause palpitations.

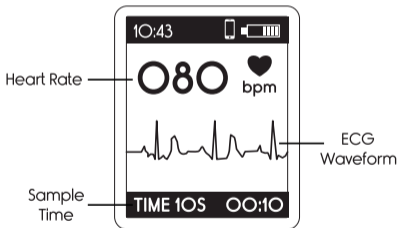
VPB Trigeminy	Premature Ventricular Contraction in which two normal beats are coupled with a premature beat.
VPB Bigeminy	Premature Ventricular Contraction in which a normal beat is coupled with a premature beat.
VPB runs of 3	
VPB runs of 4	Nonsustained ventricular tachycardia (NSVT) is defined as 3 (sometimes 5) or more consecutive beats arising below the atrioventricular node with an RR interval of <600 ms (>100 beats/min) and lasting <30 s (1). This definition, however, is not universal.

VPB R on T	When the PVC falls on a T wave from the previous contraction, ventricular fibrillation and death can occur. During the T wave (repolarization), heart muscle is very sensitive to outside stimulus thus a strong PVC can send the myocardium into fibrillation.
Bradycardia	Slow heart rate detected.
Tachycardia	Fast heart rate detected.
Arrhythmia	An arrhythmia is a problem with the rate or rhythm of your heartbeat. It means that your heart beats too quickly, too slowly, or with an irregular pattern.
ST Elevation	An ST elevation is considered significant if

	<p>the vertical distance inside the ECG trace and the baseline at a point 0.04 seconds after the J-point is at least 0.1 mV (usually representing 1 mm or 1 small square) in a limb lead or 0.2 mV (2 mm or 2 small squares) in a precordial lead.</p>
ST Depression	<p>ST depression occurs when the J point is displaced below baseline. Just like ST elevation, not all ST depression represents myocardial ischemia or an emergent condition. There are multiple conditions associated with ST depression. Some of these include hypokalemia, cardiac ischemia, and medications such as digitalis.</p>

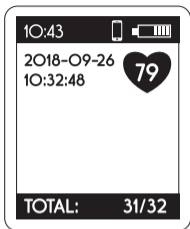
PRE-SAMPLE INTERFACE

When the waveform becomes stable, the device will start formal sampling automatically, sample time countdown on the bottom right corner begins until finished one time sample and the color of sample time turns red.



FORMAL SAMPLE INTERFACE

The device will enter into case review interface after completed sampling. Case review interface displays the sampling start time and heart rate.



CHARGING THE DEVICE

At the top of the screen, there is a battery level indicator. Use the included USB charging cable to recharge the device.



VIVE PRECISION APP

Note: You do NOT need the Vive Precision app to use the ECG monitor.

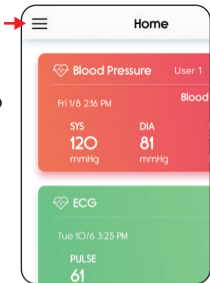
The ECG can be used for free, with the Vive Precision app. Pairing your ECG with the Vive Precision app allows you to easily track, record, and export data.



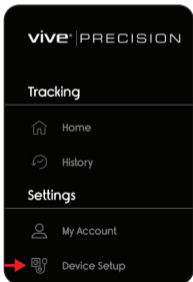
USING THE VIVE PRECISION APP

1. Once the app is downloaded, an account must be created to track and store health data.

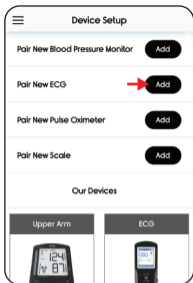
2. After you have logged in, click the menu button in the top left corner of the screen.



3. Then, choose Device Setup.



4. Click the "Add" button, next to Pair New ECG.



5. You will be prompted to turn the device on.



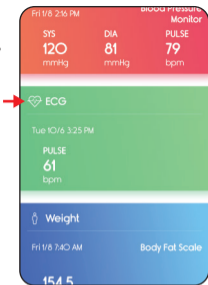
6. Next, you will see the device naming ID. Click this to begin pairing your device.



TAKING A MEASUREMENT

After your device has been paired, simply take a measurement with your ECG monitor. If you have the Vive Precision app open, it will automatically transfer the measurement from the ECG monitor to the app. Note: It may take several seconds to transfer the data to the app.

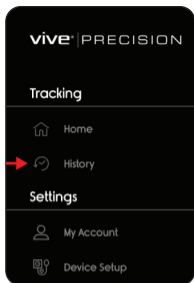
1. When the measurement has transferred, the ECG box on the home screen will update with the most recent measurement.



2. To view the most recent measurement, click the ECG box on the home screen. This will display the waveform graph and the average pulse rate from your measurement.



3. To view more measurements, go to the History section, located in the menu.




4. You will be able to see every measurement you have taken and transferred to the app. Note that the app can store unlimited measurements.

The screenshot shows the History screen in the VIVE PRECISION app. The screen has a white background and a dark header. The header includes a menu icon, the word "History", and a lock icon. Below the header is a navigation bar with four tabs: "Blood Pressure Readings", "ECG Readings", "Weight Readings", and "Pulse Oximeter Readings". The "ECG Readings" tab is selected, and a back arrow is visible. Below the navigation bar is a summary section with "Avg. SYS" and "Entries". The "Avg. SYS" value is 70 and the "Entries" value is 14. Below the summary section is a table with three columns: "Date", "Time", and "Pulse". The table contains seven rows of data, all for the date 9/30/20 and the time 7:31 AM. The pulse values are 64*, 66*, 65*, 104*, 66*, and 64*.

Date	Time	Pulse
9/30/20	7:31 AM	64*
9/30/20	7:31 AM	66*
9/30/20	7:31 AM	65*
9/30/20	7:31 AM	104*
9/30/20	7:30 AM	66*
9/30/20	7:30 AM	64*
9/30/20	7:30 AM	66*

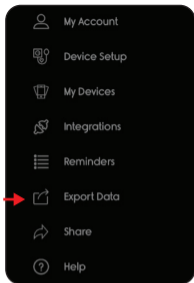
5. To view the waveform for each particular measurement, swipe the row to the left to reveal the "Report button"

Readings	Weight Readings	Pulse Oximeter Readings
Entries		
	14	
Time	Pulse	
	64*	 Report
7:31 AM	66*	
7:31 AM	65*	

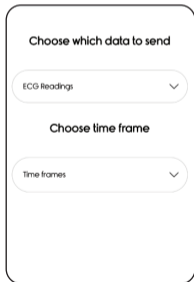
TRANSFERRING DATA

If you would like to transfer your health information to a physician or relative, you can do so with the export data feature.

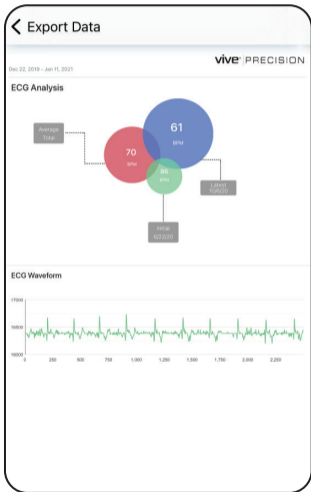
1. To do so, go into the menu and click "Export Data".



2. Here you are able to choose the type of data you would like to send and the respective time frame.



- When you send a measurement, the recipient will receive a comprehensive PDF summary, as well as a CSV file.



WARNINGS

- This device is not to be used by patients who have a pacemaker. If you have an internal electronic device, consult your physician before using an ECG monitor.
- This device is not designed or intended for complete diagnosis of cardiac conditions. This device should never be used as a basis for starting or modifying treatment without independent confirmation by professional medical examination.
- Always consult your physician before you begin or modify any exercise program.
- This device does not detect or measure all heart rate, heart rhythm, and heart waveform changes, especially those related to ischemic

heart conditions.

- Do not attempt self-diagnosis or self-treatment based on the recording results and analysis.
- Interpretations made by this device are potential findings, not a complete diagnosis of cardiac conditions. All interpretations should be reviewed by a medical professional.
- Users should notify their doctor of a possible change in health: a labeling of the ECG as normal should not be relied on as a guarantee of absence of arrhythmias or other health conditions.
- The heart rate analysis is only valid if there is a valid rhythm (QRS complex visible).
- Do not use this device during an MRI scan.

- Our device will not be performing any measurements that require validation through ANSI/AAMI EC 57.
- ECG reports viewed or printed at any magnification other than 100% may appear distorted and could lead to misdiagnosis.
- Do not use on individuals less than 45 pounds.