



HyVibe H2

User Manual



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Welcome HyViber



You are about to embark on a musical journey that will inspire your musical creativity.

This Quick Start Guide will give you the basics of how to get started.

To access the full user guide for the HyVibe System and the HyVibe Mobile app, visit: www.hyvibeguitar.com/downloads

For instructions on how to install the HyVibe System on a guitar, visit www.hyvibeguitar.com/installation-documents

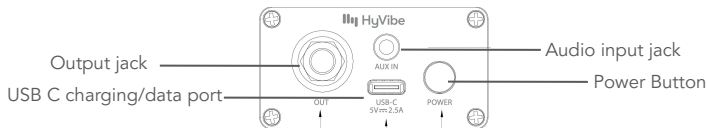
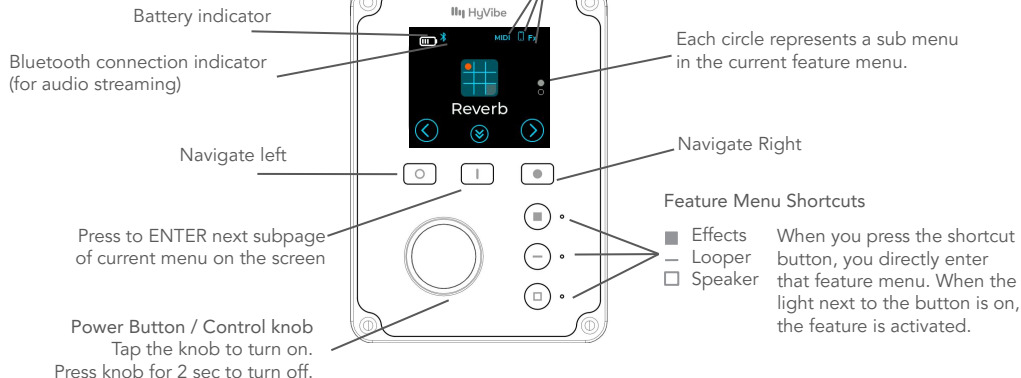
Download the HyVibe Mobile App and create an account here:



The HyVibe Interface




Indicator icons for MIDI pedal, mobile app connection. Fx = effects are turned on.



HyVibe Core Features

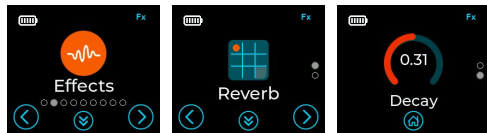


Play with self-amplified effects.

To turn on the Effects, either press the Effect menu shortcut button , or scroll with the right/left buttons until you reach the Effects menu.


Press the ENTER button to enter the Effects menu and select your effect with the right/left buttons.

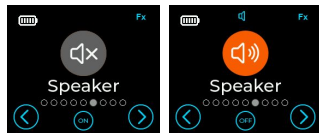
To modify the effect, press the ENTER button and adjust the effect parameter with the control knob. You can make further adjustments using the mobile app.



Turn your guitar into a Bluetooth Speaker.

Use your phone standard Bluetooth settings to connect the HyVibe System. When the Bluetooth Icon  appears on your guitar, you are paired and ready to jam with your favorite music and backing tracks.

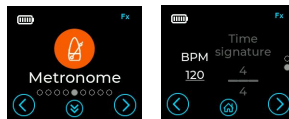
Navigate to the Speaker menu with the shortcut button () or with the right/left arrow keys. Press the ENTER button to turn Speaker mode on (the speaker icon will turn orange).



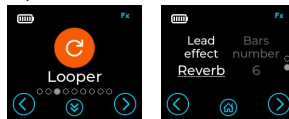


Let's start looping.

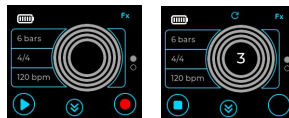
1. Choose the effect you would like to record with in the Effects Menu.
2. Enter the Metronome menu to set the time signature and BPM for your recording. In this menu you can also adjust the volume of the metronome click that you hear when recording a loop.



3. Enter the Looper Menu and press the Enter button to access the second screen in the Looper Menu. Choose the 'lead' effect (the effect that will be automatically activated after the loop is recorded) and the number of bars you want to record. When the loop is playing back, you can change the lead effect.

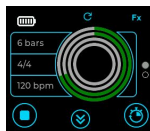


4. To begin recording a loop, press the right button in the main looper menu. A countdown screen will appear. The recording begins after a 1 measure countdown. And you will see a green line going around the circle, indicating that you are recording.

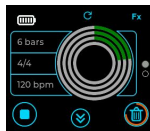




5. You can record 3 additional tracks. To add an additional layer, press the record button. A timer icon will appear indicating that the additional loop layer will be recorded during the next loop playback and a countdown will display one measure before the recording begins.



6. To erase the most recent loop layer, hold the right button. A trash icon will appear. Hold for 2 seconds and the last recorded track will be erased. If you release before 2 sec, the action is cancelled.



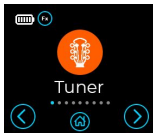
7. If you press the play button before the programmed loop finishes recording, you enter 'free mode'. You can still add and remove layers, but the screen will display a ring to indicate the approximate position of the playback.



Tuner

The HyVibe System includes a built-in chromatic tuner.

1. **Access the Tuner:** Navigate to Tuner in the main menu using the Left and Right buttons.
2. **Activate:** Press the Enter button to open the tuner screen.
3. **Tune a String:** Pluck a single string. The display will show the note you are closest to. An indicator on the screen shows if your pitch is sharp (too high) or flat (too low).
 - Indicator to the left: The string is flat. Tighten the string.
 - Indicator to the right: The string is sharp. Loosen the string.
 - Indicator centered: The string is in tune.
4. **Exit:** Press the Home button or navigate away to exit the tuner.

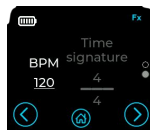
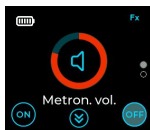
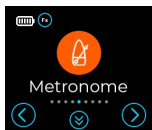




Metronome

You can use the HyVibe System as a practice metronome with adjustable tempo and time signatures.

1. Access the Metronome: Navigate to Metronome in the main menu using the Left and Right buttons. Press Enter to open the metronome settings.
2. Start/Stop and Set Volume
 - On/Off: Use the Left and Right buttons to toggle the metronome On or Off.
 - Volume: Turn the main knob to set your desired click volume.
3. Set Tempo and Time Signature: Press the Right button to go to the next screen. Here you can adjust:
 - BPM (Beats Per Minute): The tempo of the metronome.
 - Time Signature: The beat pattern (e.g., 4/4, 3/4).
4. Adjust Settings: Use the Left and Right buttons to highlight either BPM or Time Signature. Turn the main knob to change the value of the selected setting.





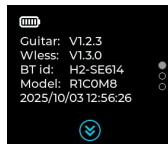
System Menu

The System Menu gives you access to important device information, input level adjustments, and system calibration. To enter the System Menu, navigate from the main screen. Use the left and right arrow buttons to cycle through the different menu screens.

1. System Information Screen

This screen displays key information about your HyVibe System. It is useful for troubleshooting and when checking for firmware updates.

- **Guitar:** Displays the main firmware version of your system (e.g., V1.2.3).
- **Wless:** Displays the firmware version of the wireless module.
- **BT ID:** Shows the name of your guitar as it will appear in the list of available Bluetooth devices on your phone or other device (e.g., H2-SE614).
- **Model:** Displays the hardware model number of the device.





2. Input Levels Screen (Piezo & Aux)

This screen allows you to monitor and adjust the gain for the built-in piezo pickup and the auxiliary input jack. Use the up/down arrow buttons to select a parameter and turn the main knob to adjust its value.

Piezo Input

This section is critical for ensuring your guitar's pickup is working optimally.

- **Gain:** Adjusts the sensitivity of the piezo pickup. The default is -8 dB.
- **Level:** Shows the real-time signal level coming from the pickup.



To validate that the piezo is properly placed under the saddle, follow these steps:

1. Navigate to this screen in the System Menu.
2. Strum the open guitar strings loudly and repeatedly (without fretting the strings).
3. Observe the Level reading. For best performance, the level should peak between -6 dBFS and -3 dBFS.
4. If the level is too low, increase the Gain using the main knob. If adjusting the Gain is not sufficient, the physical placement of the piezo under the saddle may need adjustment.



Aux Input

- **Gain:** This adjusts the input level for an external device (like a pedal or keyboard) connected to the guitar input jack.

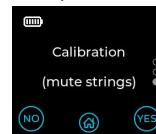


3. Calibration Screen

The calibration process analyzes the unique acoustic properties of your guitar's body. This is essential for optimizing the quality of the effects and preventing unwanted feedback. You should run this process after first installing the system or if you feel the effects are not responding correctly.

How to Calibrate:

1. Navigate to the Calibration screen.
2. Firmly mute all the guitar strings with the palm of your hand. This is important so the system only measures the wood's resonance.
3. Select YES to begin. The system will perform a quick analysis.
4. Select NO to cancel and return to the previous screen.





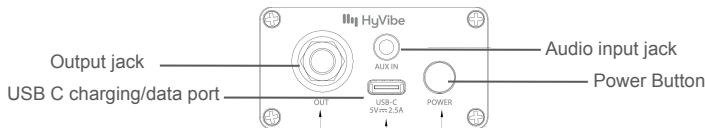
Aux Out

The HyVibe System can be connected to an amplifier or external device by connecting a 1/4" guitar cable from the external device to the output jack on the guitar.

When plugged into an external device, the volume knob is used to control the volume of the effects, loop playback, and Bluetooth stream. The continuous control lever is used to control the volume of the guitar's direct output. If no sound comes out of the output device, restart the HyVibe System.

Aux In

External pedals, etc. can be plugged into the HyVibe System. Simply connect an 1/8" audio cable from the external device to the input jack. The input and output jacks can be used together to run external devices such as fx pedals, sound cards, and PC's through the guitar.



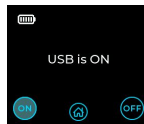
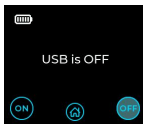


USB

The USB mode allows you to connect your HyVibe System to a computer for tasks like firmware updates or managing files. The system's battery will also charge while connected.

How to Activate USB Mode:

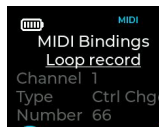
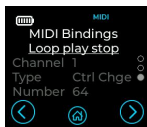
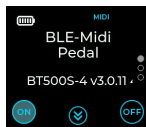
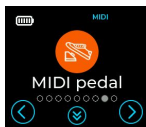
1. **Power Off:** Make sure the HyVibe System is completely turned off.
2. **Connect Cable:** Plug a USB-C cable into the guitar's port and connect the other end to a USB port on your computer.
3. **Power On:** Turn the HyVibe System on.
4. **Enter the USB menu, and move the cursor to the ON position.** Leave it in that position and the HyVibe device will appear on the computer as an external drive.
5. **When finished, press eject on your computer to safely remove the drive.**





MIDI

The HyVibe System can be controlled by a Bluetooth MIDI controller. For pairing and configuration instructions, visit www.hyvibeguitar.com/downloads. The pictures below show the configuration on an AirTurn pedal to control the looper.



Feedback Control

Be cautious when creating custom banks and effects (especially when increasing the gain), as you might create loud feedback. If you are experiencing unwanted feedback from the guitar while using the Effects, try these solutions:

CALIBRATION

If there is feedback or unwanted noise when the strings are muffled/muted (sounds coming from inside the body of the guitar), recalibrate the HyVibe System.



Tune the guitar and enter the Calibration menu in the System Menu.

Mute the strings (to neutralize feedback from the body and inside the body of the guitar) and simultaneously press 'calibrate'

CREATE A NOTCH FILTER

Using the HyVibe Mobile App, you can add a Notch Filter to the effect bank. A notch filter is used to cut a very narrow frequency out of the spectrum.

REDUCE GAIN of EFFECT BANK

In the HyVibe Mobile, press the three dots at the bottom of the Effect Bank, then click Modify. Lower the Gain of the bank.

SUSTAIN KILLER

If there is unwanted sustain on the strings (auto vibration of the strings), enable the Sustain Killer. To do this, enter the HyVibe Mobile App, press the three dots at the bottom of the Effect Bank, and click Modify.

Turn on the Sustain Killer. The HyVibe System will scan and find up to 10 frequencies (in under 2 sec) that cause feedback and filter them out.



REDUCE SYSTEM GAIN

In the HyVibe System Menu, lower the Piezo Input until the feedback is gone.

Mobile App Connection

The HyVibe Mobile App lets you take the HyVibe System to the next level. It is available as a free download from the Apple™ App Store™ (iOS) and Google Play Store™ (Android™). The HyVibe Mobile App can be used to:

- Modify effects
- Configure the looper settings
- Record your playing
- Create custom effect banks
- Configure the sequence of effects on your Effect menu screen
- Calibrate your guitar

The full user manual for the HyVibe Mobile App can be found on the HyVibe Guitar website, on the Downloads page. Here is the direct link:

<https://hyvibeguitar.com/wp-content/uploads/2019/09/HyVibe-Mobile-App-User-Guide-V0.2.0.pdf>

To connect the App to your guitar, tap the Hy icon in the app. There the app will display if it app is connected to the guitar. Press the drop down button under the status setting, and enable the connection. If the guitar does not appear, press 'Start Scan' to search for your guitar. If you are using an Android phone, make sure 'Location Services' is activated in your phone's settings..

Safety and compliance docs



Important Safety Instructions

Read, keep, and heed all instructions and warnings.

- **Water and Moisture:** To reduce the risk of fire or electric shock, do not use this device near water. Do not expose this apparatus to rain, moisture, dripping, or splashing, and do not place objects filled with liquids, such as vases, on or near it.
- **Cleaning:** Clean only with a dry cloth.
- **Heat and Flames:** Do not place naked flame sources, such as lighted candles, on or near the product. Use the H2 in an environment with a temperature between 0°C and 45°C.
- **Attachments:** Only use attachments/accessories specified and/or included by the manufacturer.
- **Servicing:** Refer all servicing and installations to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as if the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into it, it has been exposed to rain or moisture, it does not operate normally, or it has been dropped.
- **Hearing Safety:** Lower the volume on the guitar when editing effects with the Mobile App, as loud sounds may occur. Do not play the guitar or use it as a Bluetooth speaker at any volume that causes discomfort. If you experience ringing in your ears, muffled speech, or any temporary hearing difficulty, discontinue use and consult a doctor.

Safety and compliance docs



Battery Safety and Handling

Battery Type: Rechargeable Lithium-ion Polymer Battery 18650-2S (7.4V, 2200mAh, 28Wh). Risk of explosion if battery is replaced by an incorrect type.

Expected Battery Life: Approximately 10 hours of typical use on a full charge. Battery life depends on which features are used.

1. General Safety

- Only use the battery pack supplied with the HyVibe System 2.
- Do not open, disassemble, crush, puncture, mutilate, or short-circuit the battery. Released electrolyte is corrosive and may cause injury. The electrolyte may be toxic if swallowed.
- Exercise care when handling the batteries. Do not allow conductive materials such as rings, bracelets, or keys to touch the batteries, as a short circuit may cause them to overheat and cause burns.
- Keep the battery away from excessive heat or open flames.
- Do not expose the battery to water, high humidity, or mechanical shock. Avoid dropping or subjecting it to strong physical shocks.
- Stop using the battery if it shows signs of swelling, leakage, or unusual odors.

Safety and compliance docs



2. Charging Instructions

- The product shall only be connected to a USB interface of version USB2.0.
- The battery must be charged using a high-quality, safety-compliant USB Type-C compatible charger. The adapter shall be installed near the equipment and be easily accessible.
 - Input: AC 100-240V 50/60Hz 0.4A
 - Output: DC 5.0V, 2.5A
- Do not use any charger other than that specified for use with the equipment.
- Avoid charging in extremely hot or cold conditions. Batteries perform best at normal room temperature ($20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ / $68^{\circ}\text{F} \pm 9^{\circ}\text{F}$).
- Do not leave the battery charging unattended or on a prolonged charge when not in use. Disconnect the charger once the battery is full to prevent overcharging.

3. Replacement and Service

- The battery must only be replaced with an official HyVibe battery of the same specifications. Unauthorized replacements may cause damage or safety risks and will void the warranty.

Safety and compliance docs



4. Storage and Transport

- Store the battery in a cool, dry place away from direct sunlight. For long-term storage, keep the battery at a charge level between 40-60%.
- Follow all international transport regulations for lithium-ion batteries (e.g., UN38.3, IATA guidelines). Do not transport a damaged or swollen battery.

5. Emergency Procedures

- In case of leakage: Avoid contact with skin and eyes. If contact occurs, rinse the affected area with copious amounts of water and seek medical advice.
- In case of fire: Use a Class D fire extinguisher (for lithium-ion) or sand. Do not use water.
- In case of overheating: Immediately disconnect from the power source and move the device to a fire-safe location.

6. End-of-Life and Recycling

- Dispose of used batteries according to your local regulations for electronic waste. Do not dispose of the battery in household trash or incinerate it. Contact local recycling facilities for proper disposal.

Safety and compliance docs

Regulatory and Compliance Information



SAR: The device complies with RF specifications when used at 5mm from your body.

FCC Compliance Notice (Model Number: HyVibe System 2; FCC ID: 2AR2L-H1) This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: Changes or modifications not expressly approved by HyVibe could void the user's authority to operate the equipment and/or void product safety certifications. This device complies with FCC and Industry Canada RF radiation exposure limits set forth for the general population. It must not be co-located or be operating in conjunction with any other antennas or transmitters.

Safety and compliance docs



Industry Canada (IC) This Class B digital apparatus complies with Canadian ICES-003. CAN ICES-3 (B) / NMB-3 (B)

EU Declaration of Conformity (CE)

1. Radio equipment model: HyVibe System 2
2. Name and address of the manufacturer: HyVibe 51 rue Maubeuge, Paris 75009, FR
3. This declaration of conformity is issued under the sole responsibility of the manufacturer.
4. Object of the declaration: HyVibe System 2: Smart Guitar System with Bluetooth connectivity, audio effects, and looper.
5. The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:
 - Radio Equipment Directive (RED) 2014/53/EU
 - Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU
6. References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared:
 - Health & Safety (Art. 3.1a): EN 62368-1:2014+A11:2017
 - EMC (Art. 3.1b): ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-17 V3.2.4
 - Radio Spectrum (Art. 3.2): ETSI EN 300 328 V2.2.2
 - RoHS: EN IEC 63000:2018

Warranties



HyVibe Limited Warranty
Effective Date: January 2024

This Limited Warranty applies to HyVibe products purchased directly from our official website, hyvibeguitar.com.

HyVibe warrants its products against defects in materials and workmanship under normal use for a specific period from the date of original retail purchase.

Warranty Period

- For customers within the European Union (EU): A period of two (2) years.
- For customers in all other regions: A period of one (1) year.

This warranty is extended only to the original end-use purchaser and is not transferable. A valid proof of purchase (such as an order number from hyvibeguitar.com) is required for all warranty claims.

Coverage

If a hardware defect arises and a valid claim is received within the Warranty Period, HyVibe will, at its sole discretion and to the extent permitted by law:

1. Repair the product at no charge, using new or refurbished replacement parts.
2. Replace the product with a new or refurbished product.

Warranties



How to Obtain Warranty Service

To make a warranty claim, please contact our support team at support@hyvibeguitar.com. You will need to provide your original order number and a detailed description of the issue. Our team will provide you with further instructions.

Important: Purchases from Other Dealers

This Limited Warranty applies exclusively to products purchased directly from hyvibeguitar.com.

If you purchased your HyVibe product from an authorized dealer, retailer, or any other seller, your purchase is subject to their specific warranty and return policies. You must consult that seller directly for any warranty claims or support. HyVibe does not cover the warranty for products sold through third-party channels.

Exclusions and Limitations

This warranty does not apply to:

- Damage caused by accident, abuse, misuse, liquid contact, fire, or other external causes.
- Cosmetic damage, including but not limited to scratches, dents, and normal wear and tear.
- Damage caused by service or modification performed by anyone who is not an authorized representative of HyVibe.
- Products where the serial number has been removed or defaced.
- Consumable parts, such as batteries, unless failure has occurred due to a defect in materials or workmanship.



You are now ready to Vibe

For more HyVibe resources, tutorials, and manuals, visit:

www.hyvibeguitar.com

SHARE YOUR CREATIONS WITH #HYVIBE

AND FOLLOW US ON SOCIAL MEDIA:



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