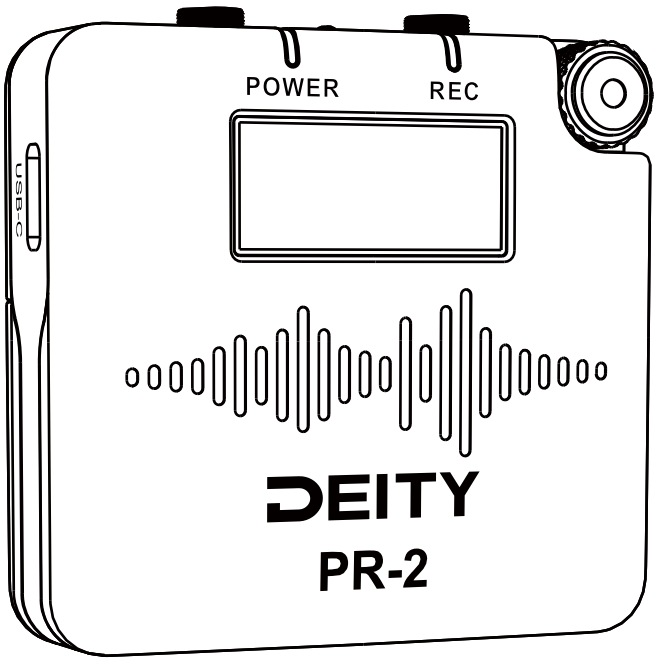
DEITY®
MICROPHONES



PR-2

User Manual

English

Preface

Thank you for using this product. Please read the User Guide carefully for better and safer application of this product.

Scope Of Application

The User Guide is suitable for the PR-2 Fanny Pack Recorder System of Shenzhen Aputure Innovation Technology Co., Ltd. (hereinafter referred to as Aputure), the external dimensions, characteristics, technical requirements, and precautions of which are described in the User Guide.
The PR-2 Fanny Pack Recorder, a type of recording equipment dedicated to providing a high-quality recording experience, is designed to adapt to the recording needs of different scenarios. The Fanny Pack Recorder will be a powerful tool that brings you high-quality, convenient and fast recording solutions whether you are a professional recorder, a journalist, a self-media photographer or an everyday use,. Fanny Pack Recorder is dedicated to meeting your recording needs and providing you a better experience during the recording process, from audio quality to ease of operation, from a variety of application scenarios to data protection.

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1. Important note

- Please read this User Guide carefully.
- Please keep the User Guide properly. Please be sure to include this User Guide when handing over the product to others for use. Please pay attention to all warning prompts and follow all instructions in the User Guide.
- Heed all warnings and follow all instructions in this product manual.

Warning: Please do not place this product in an area with corrosive chemicals to avert corrosion, which may cause product malfunction.

- Please clean this product with a soft or dry cloth.
- Please avoid falling, colliding, or heavy impact during use because this product is precision instruments.
- Please keep the product away from liquids, which may cause electronic short circuits or damage to the structure if entering the product. Please store this product in a dry, clean, and dust-free environment.
- Please contact authorized maintenance personnel when repairs are needed. This product is subject to precision electronic circuits and malfunction caused by unauthorized disassembly is not covered by the Company's warranty, but users can pay for repairs.
- This product has been certificated by CE, RoHS, UKCA, FCC, KC, NCC, etc. Please refer to relevant standards and regulations for use and operation. Machine damage caused by improper use and operation is not covered by the warranty, but users can pay for repairs.
- This User Guide is developed based on strict testing by the Company. The design and specifications are subject to change without prior notice.

2. FCC declaration of conformity

This product complies with the specifications in Part 15 of the FCC Rules. The following two conditions must be met during the operation of the product:

(1) This equipment will not cause harmful interference;

(2) This equipment can withstand any external interference, including interference that may cause unexpected operations.

[Warning] Users who make alterations or modifications without explicit permission from DEITY may be deprived of the right to continue operating the equipment.

[Note] This equipment has been tested and determined to comply with the limitations for Class B digital equipment in accordance with Part 15 of the FCC Rules. These limitations are designed to provide reasonable protection against harmful interference in residential installation conditions. This equipment will generate, use, and emit radio frequency energy. Therefore, it may cause harmful interference to radio communications if not installed and adopted according to the instructions. However, it cannot be guaranteed that such interference will not occur under certain installation conditions. It is recommended that the user attempt to eliminate the interference with one or more of the following measures if this

equipment does cause harmful interference to radio or television reception signals, which can be determined by turning the equipment off and on.

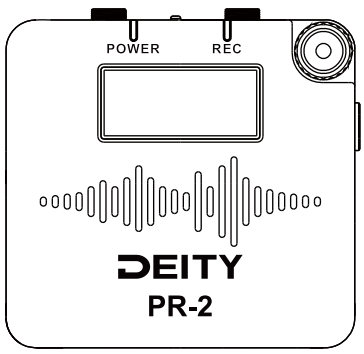
- Extend the distance between the equipment and the receiver.
- Connect the equipment to a socket on a circuit other than the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

3. FCC radiation exposure statement

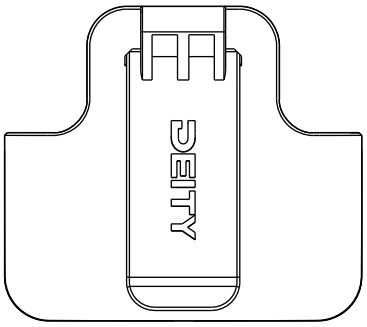
This equipment complies with the radiation exposure limits established by the FCC for uncontrolled environments. The end user must follow the specific instructions for use for RF exposure compliance.

4. Quick guide to product view

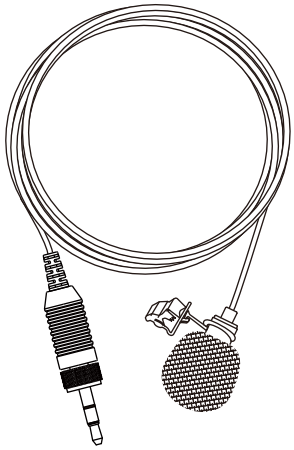
Packing list



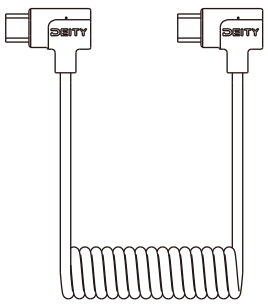
PR-2*1



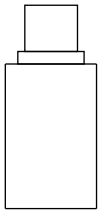
Recorder belt buckle*1



W. Lav Pro (3.5mm TRS connector)*1

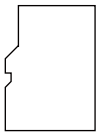


USB-C USB cable*1

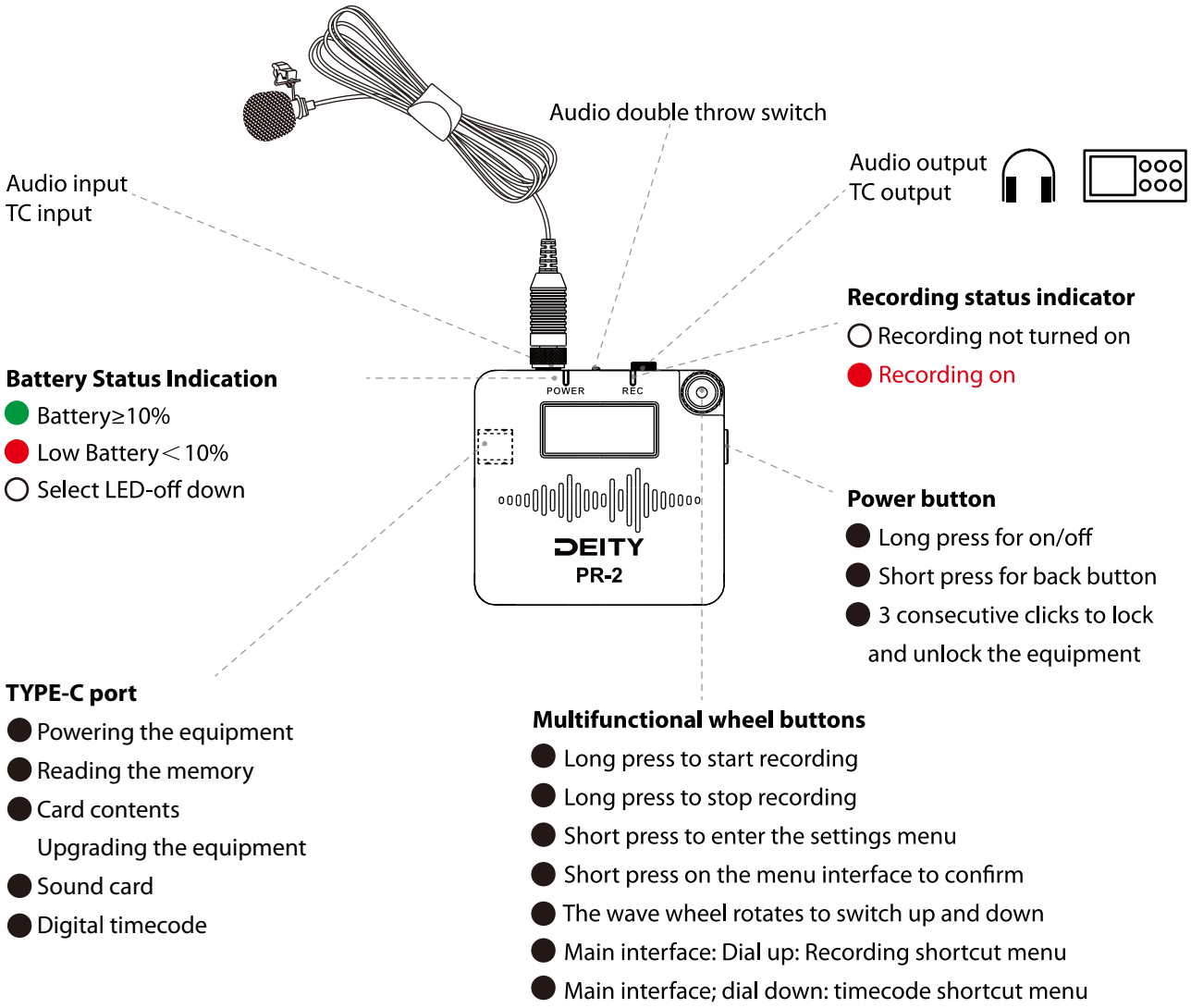


USB-C to USB-A conversion plug*1

DEITY AA battery*1



Micro SD card*1



Global version:

Audio double throw switch: Left: normal recording, output after monitoring processing; normal output of Mic and Line

Audio double throw switch: Right: normal recording, monitoring is output directly without going through the circuit, Line signal is output normally, MIC signal can be recorded, but the monitoring port has no output.

American version

Audio double throw switch: left: normal recording; no output from the output port;

Audio double throw switch: Right: normal recording; output port is muted;

Diagram for installation of microphone

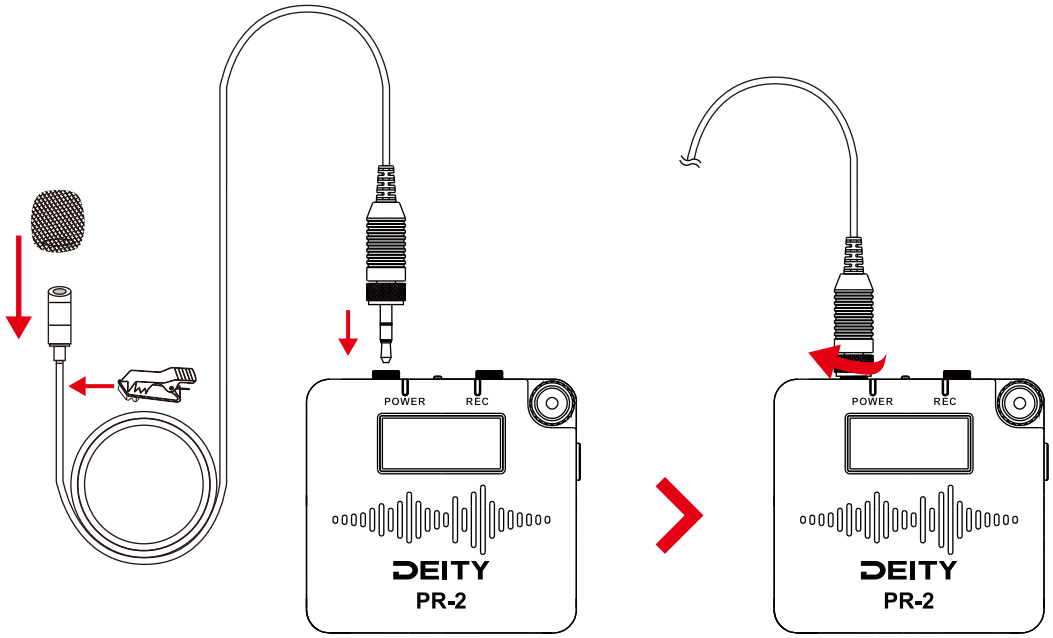


Diagram for installation of battery

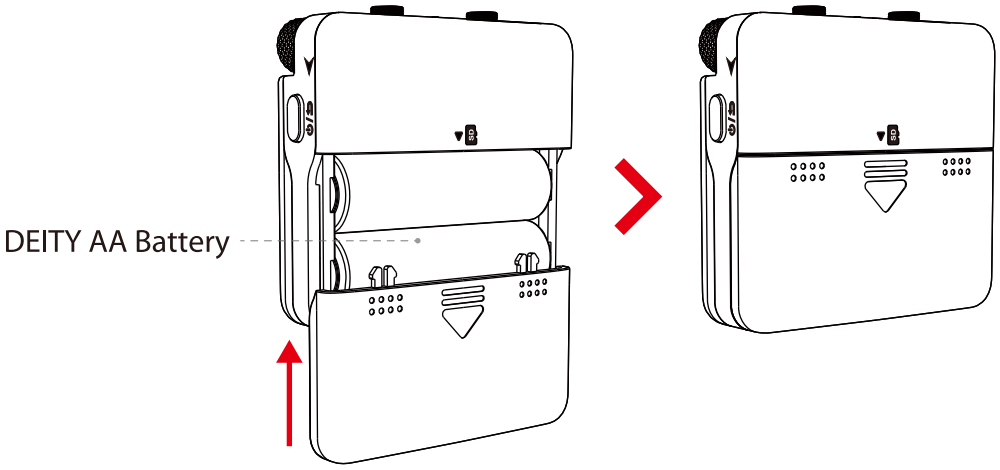


Diagram for installation of memory card

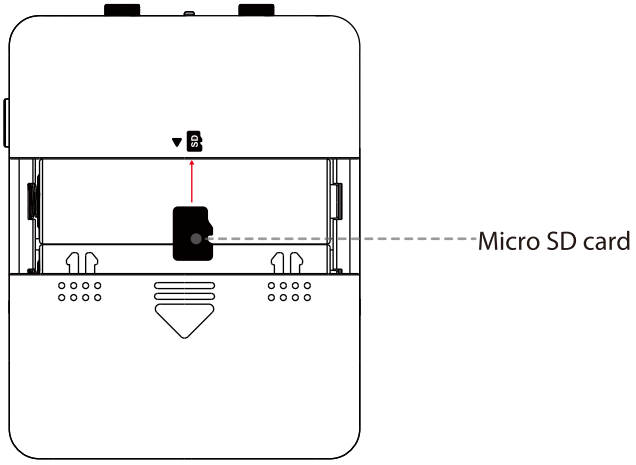
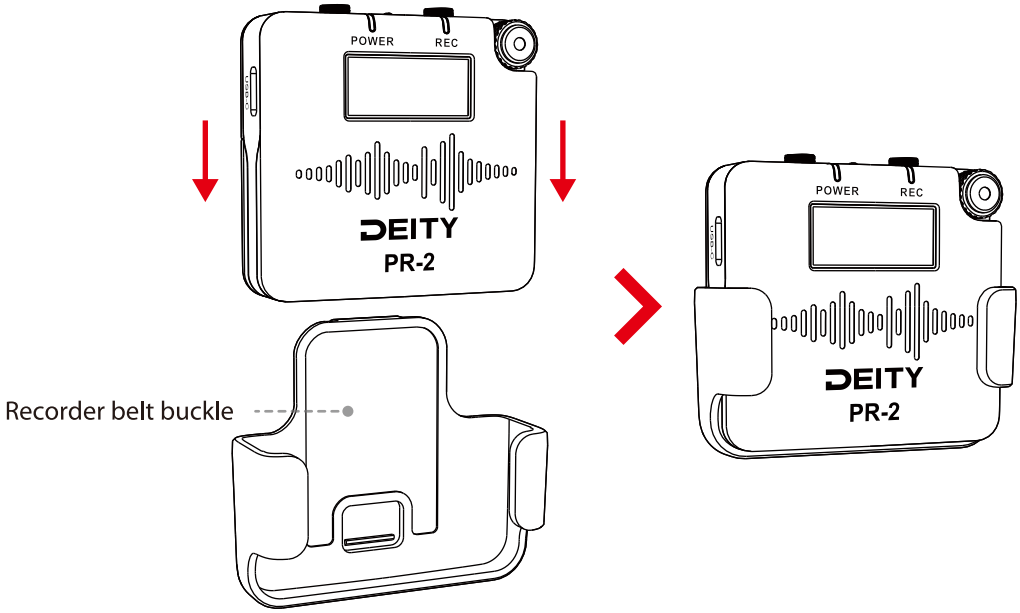
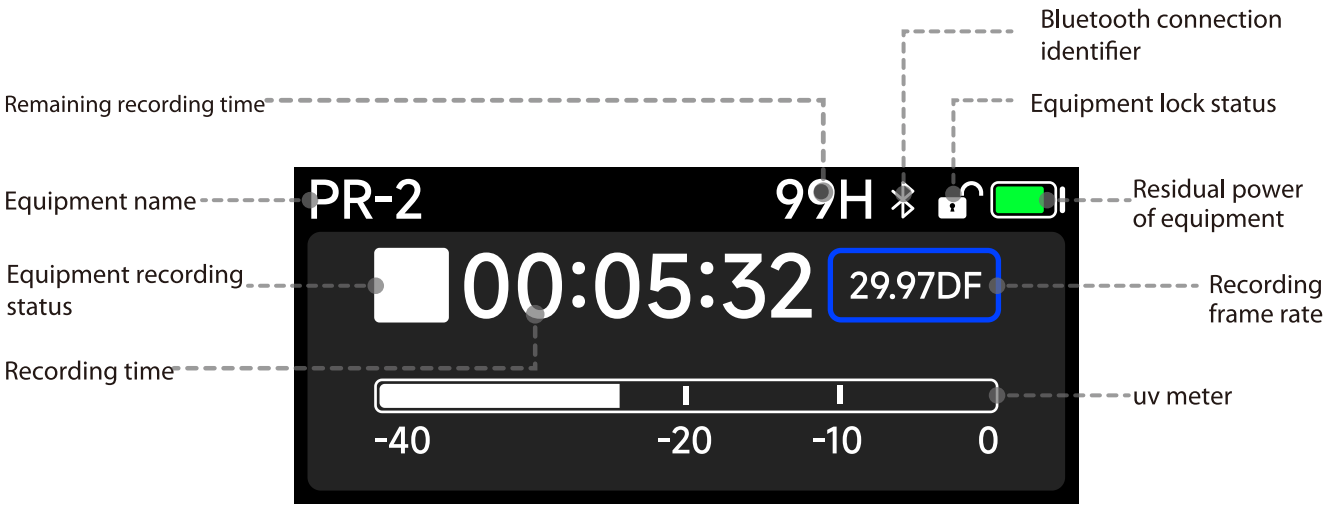


Diagram for installation of buckle

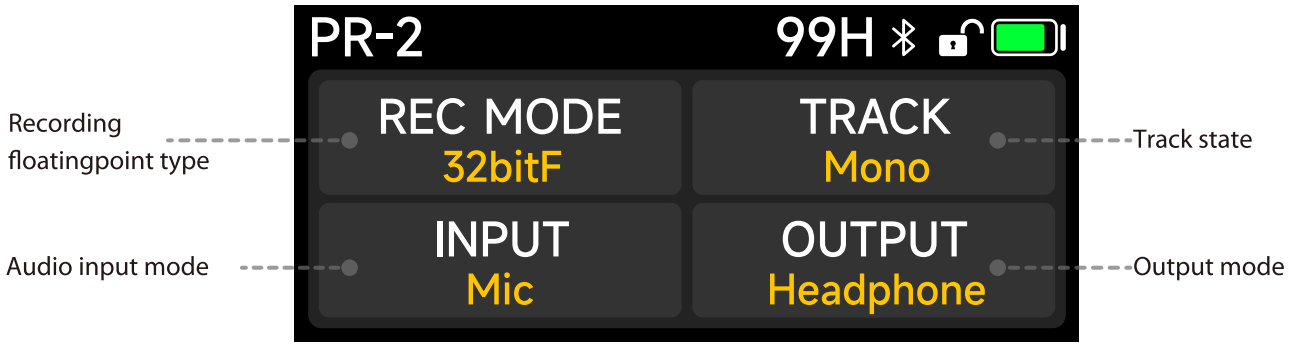


5. Function operation on interface

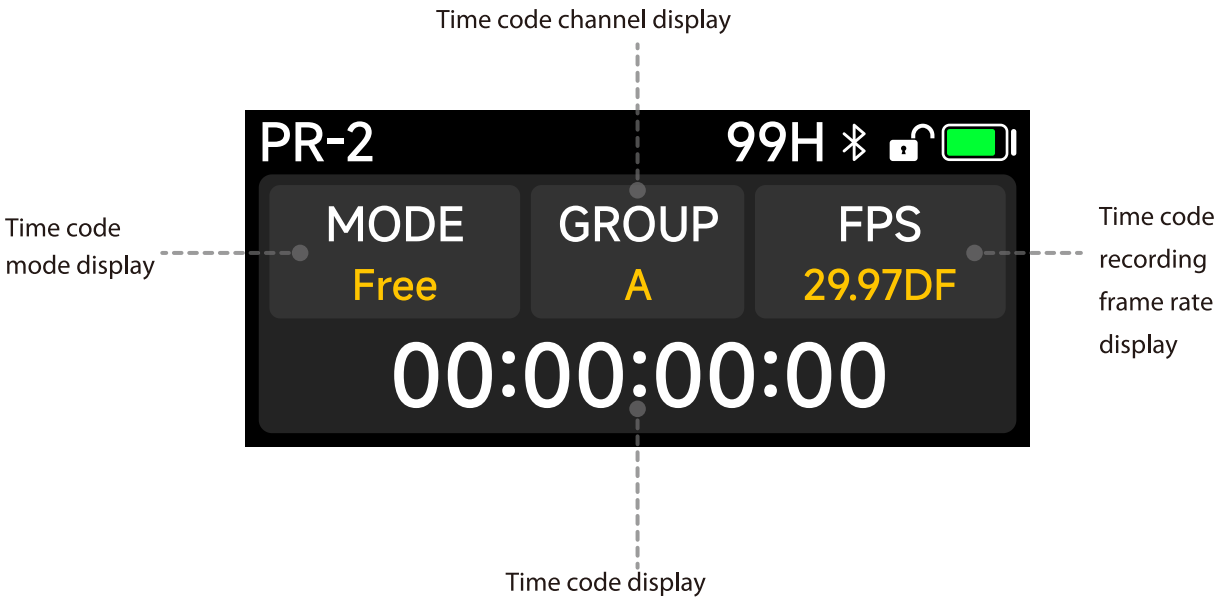
5.1 Main interface



5.2 Recording parameters on the main interface

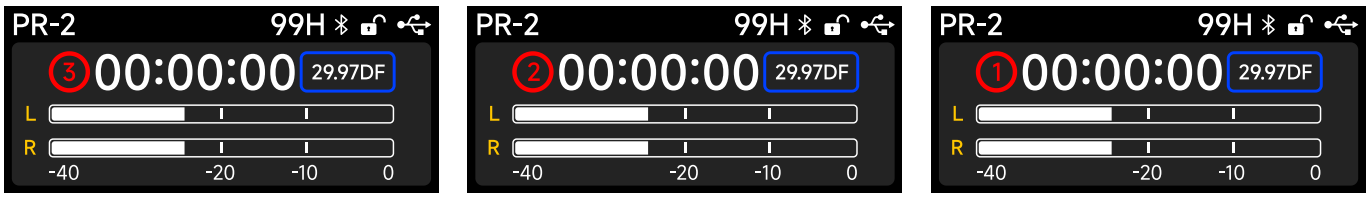


5.3 Time code status on the main interface



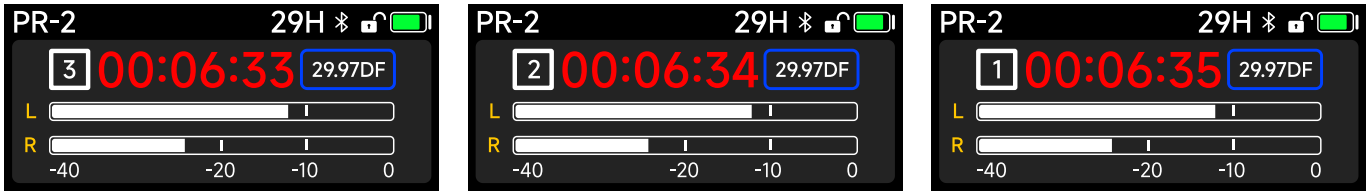
5.4 Recording status

To use the recording function, you can start recording by long-pressing the multifunction wheel button while the equipment is unlocked and wait for the progress bar to complete.



5.5 Recording stop

If you want to stop the recording, you need to press and hold the multifunctional wheel button while the equipment is unlocked and wait for the progress bar to complete so as to stop the recording.

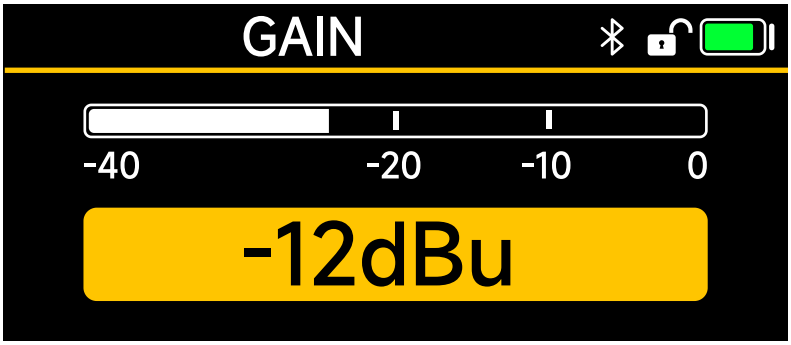


5.6 Setting of menu interface

You need to short press the multifunctional wave wheel button to enter the menu setting interface.

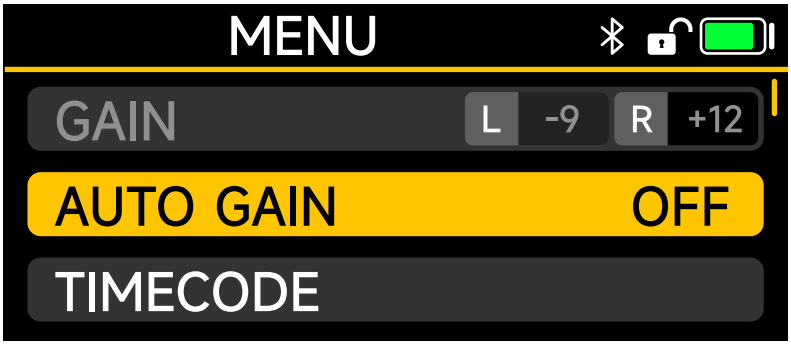
5.6.1 Gain adjustment

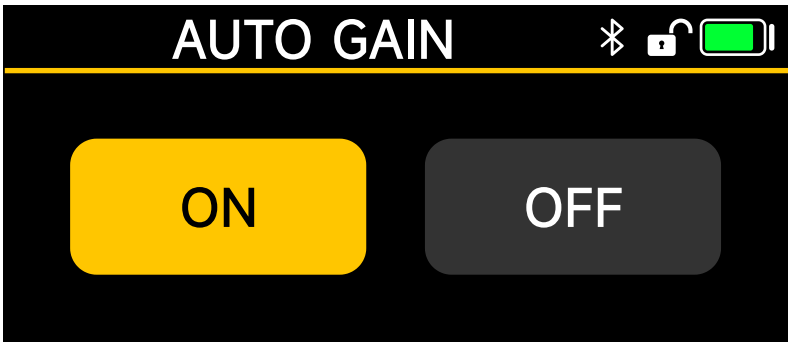
In this mode, the gain value of the microphone input can be adjusted, with a total of 12 optional gears available for adjustment. These gears can cover the range from -12dBu to + 36dBu, allowing you to accurately control the input gain of the microphone. You can adjust the gain according to different recording environments to ensure the best audio recording effect by selecting the appropriate gear.



5.6.2 AUTO GAIN

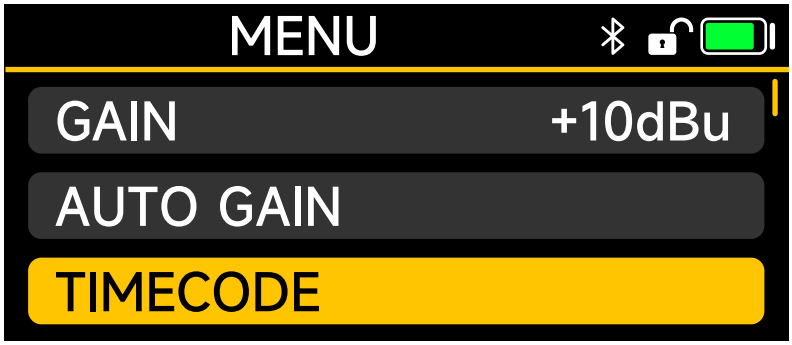
In this mode, PR-2 can automatically set the gain value according to the current environment. You can quickly obtain the appropriate gain setting to meet the needs of the current usage scenario and obtain excellent audio performance.





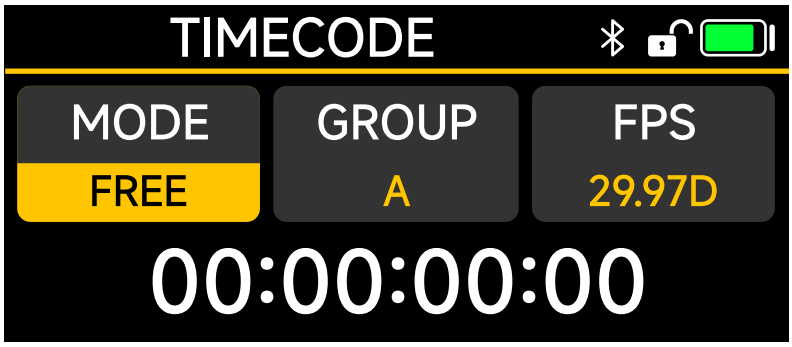
5.6.3 Setting of time code

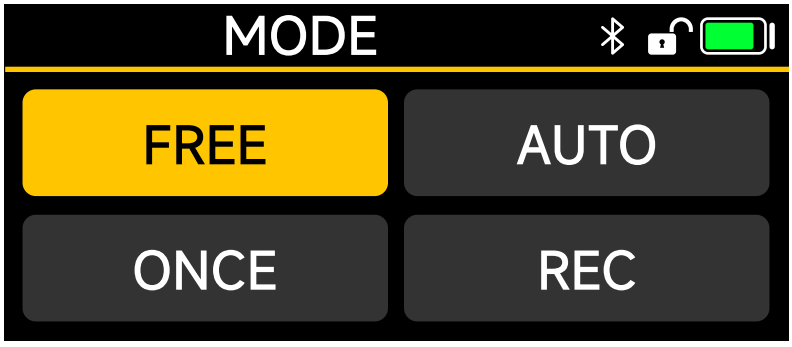
In this mode, you can set parameter information for time code synchronization.



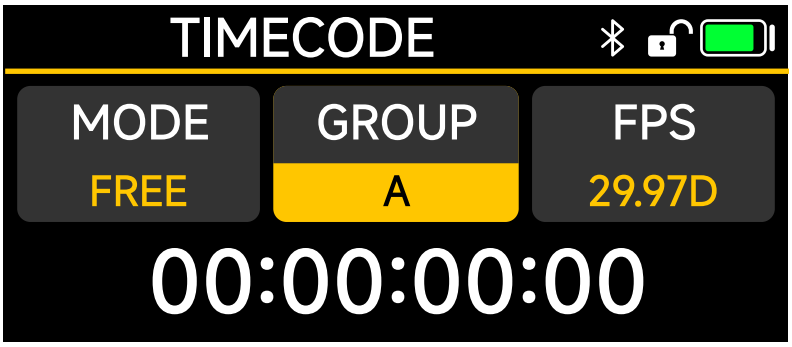
The “MODE” option allows you to set the time code mode of “FREE”, “AUTO”, “ONCE”, and “Rec”.
FREE: The time information set by the current equipment is a time code, which does not support external modification, cannot be reset, does not accept external time code signals, and cannot synchronize time codes wirelessly;

AUTO： Default setting. Wired/wireless time code can be automatically recognized for synchronization.
Jam1： If JAM is selected, all equipment will be synchronized with the main time code in a few seconds. Wired synchronization can only be conducted once and unlimited synchronization can be selected to modify the time code synchronization information.
Rec： The time code will start running when playing and recording, and time code will be stooped when not recording, when the time code cannot be synchronized by wired or wireless way.

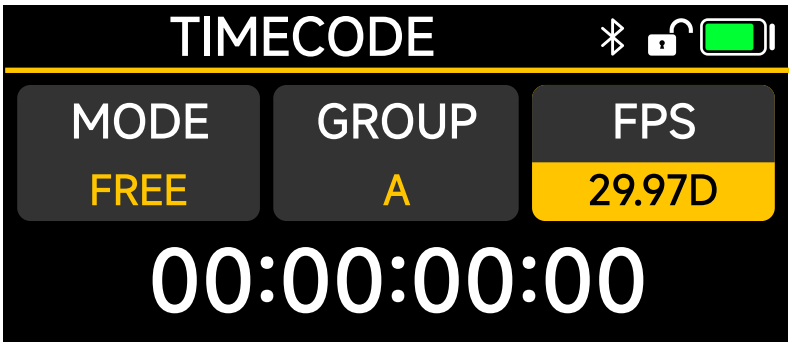


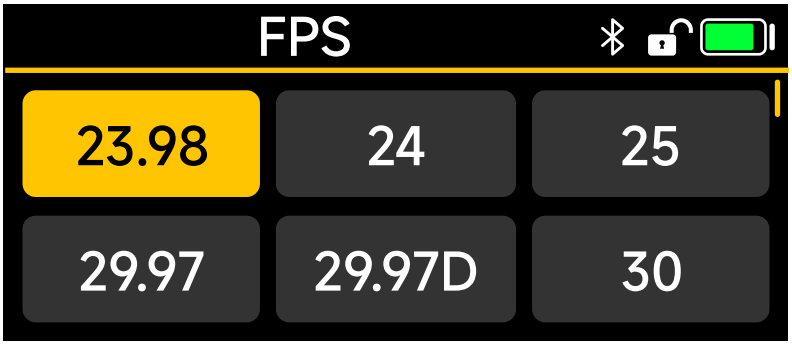


A-H time code synchronization groups are provided to facilitate your DEITY time code management, and only equipment under the same group can be synchronized. You can synchronize the time code of all equipment by the APP without worrying about the limitation of groups when Bluetooth is applied to connect to Sidus Audio.



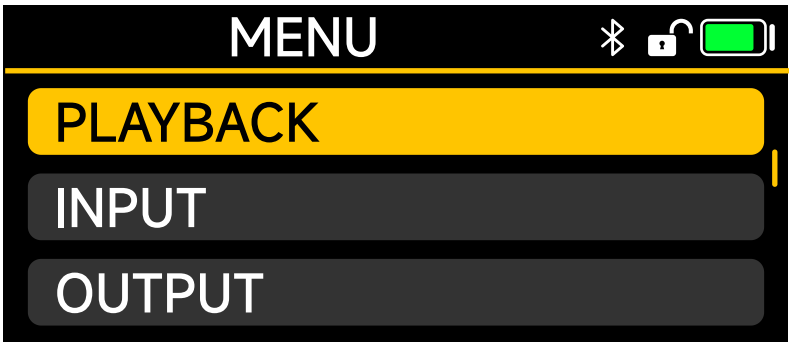
You can set the frame rate based on your actual needs. The frame rates you can select include 23.98, 24, 25, 29.97, 29.97DF, 30, 47.95, 48, 59.94, 59.94DF, 50, and 60 fps. Among them, 29.97DF indicates the frame dropping mode. The system default frame rate is 25, but we recommend you to set a suitable frame rate in advance according to your specific situation, so that you can better adapt to the requirements of different recording scenarios and the accuracy and stability of the time code can be ensured.

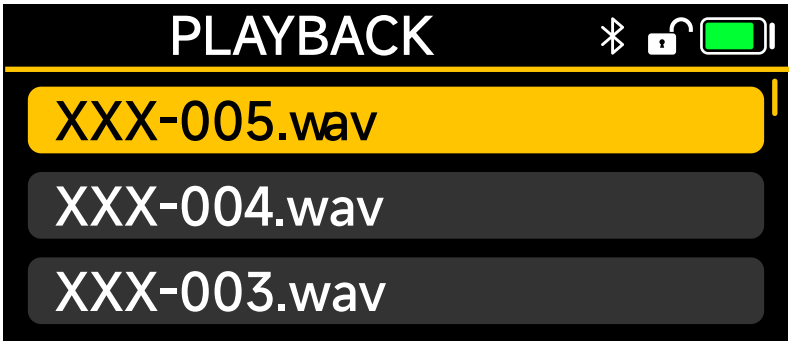




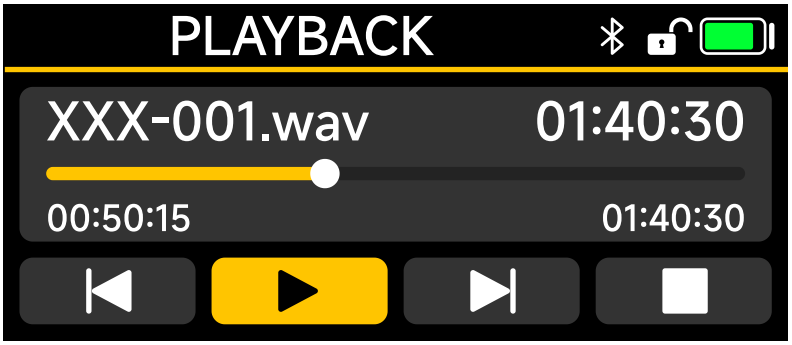
5.6.4 Clip playback

The recording files stored in the memory card can be conveniently browsed and played back. You can easily select the folder according to the date of the recording material to be played back by the wave wheel. You can quickly evaluate the recording effect and make sure that the material is in conformity with your requirements by entering to the selected date folder and selecting the recording material file to be played back.



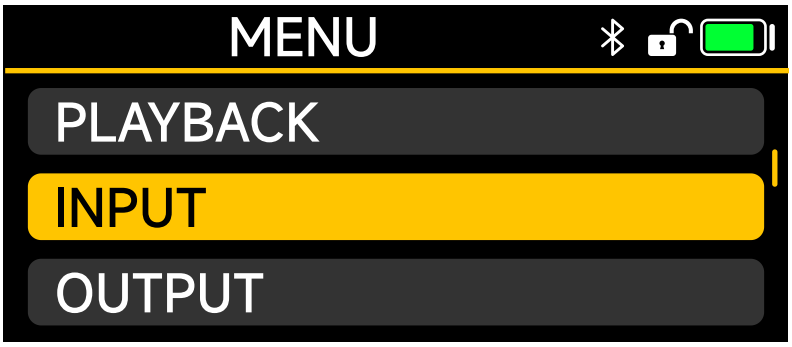


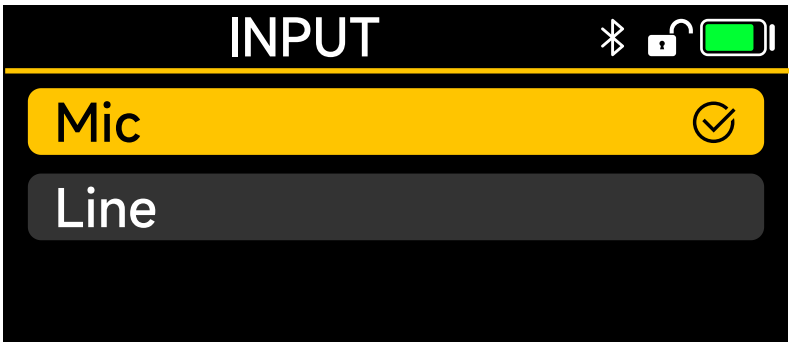
- In the clip playback interface, you can play and pause the clip by short pressing the multifunction wheel button.
- When the clip is paused, you can select the clip switch button, play function and stop function by scrolling the wheel.
- During the clip playback, you can control the clip playback progress by scrolling the wheel to realize the fast forward and fast rewind function.



5.6.5 Power supply adjustment of microphone

This mode allows you to manually switch the driving voltage of the microphone and select the microphone input option according to the type you need.

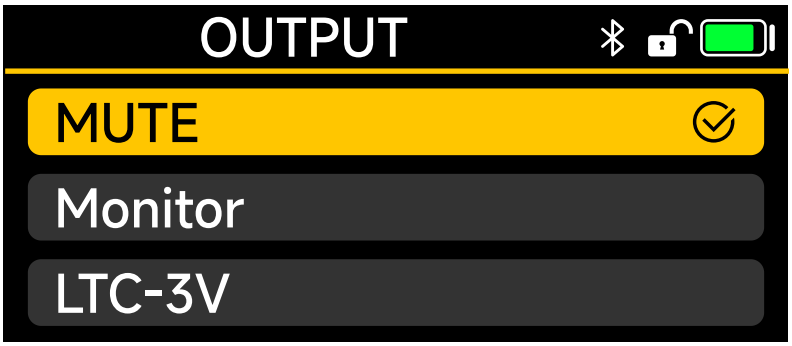




5.6.6 Setting of output

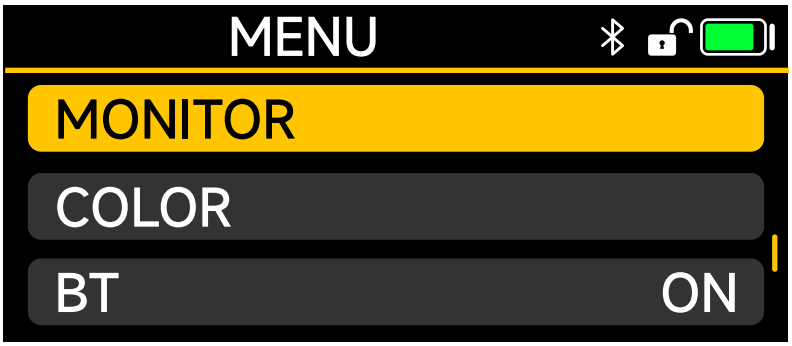
In the Output Settings, you can select different output modes according to your actual needs: Mute, Monitor, and LTC (3V). With these options, a variety of flexible connections are provided to suit different application scenarios.

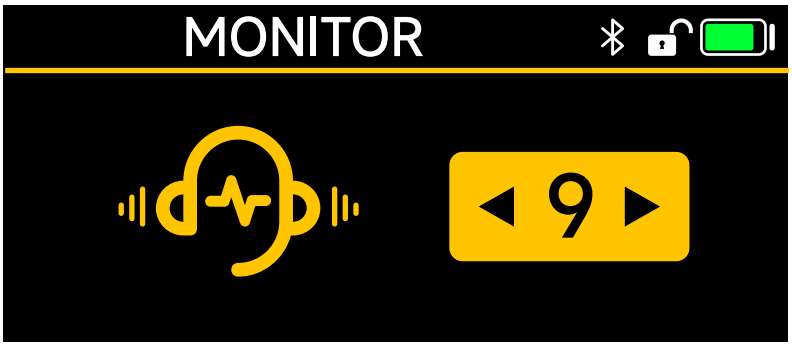
The microphone input audio can be output directly from the audio output port when the Output Mode toggle is adjusted to Thru Mode.



5.6.7 Monitor mode

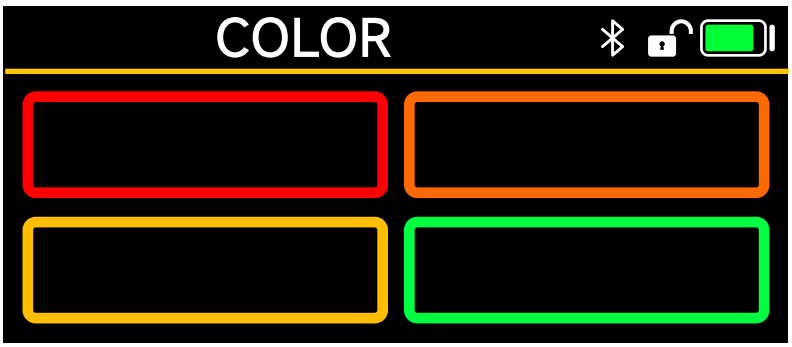
Upon entering this mode, you can choose to adjust the monitor volume of the headphones. The monitor volume is divided into 11 levels (1 to 11). To provide a better user experience, the default output is set to "9".





5.6.8 Color identification setting of equipment

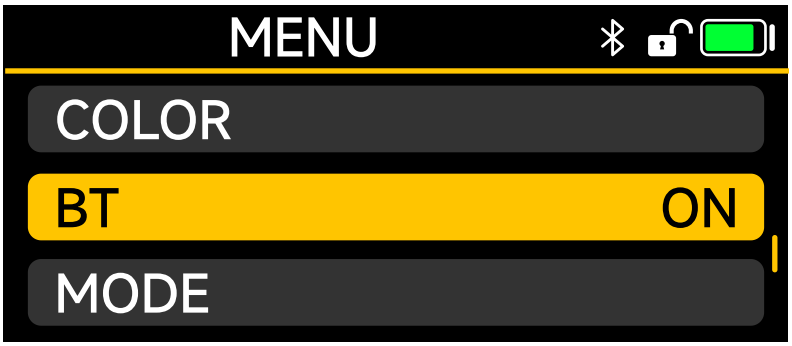
Under this mode, color markers can be selected so that the corresponding color markers will be displayed on the frame rate box of the main interface to mark the equipment with different colors. It can help you quickly recognize and distinguish different equipment in a multi-equipment operating environment, so as to effectively avoid equipment confusion and errors.

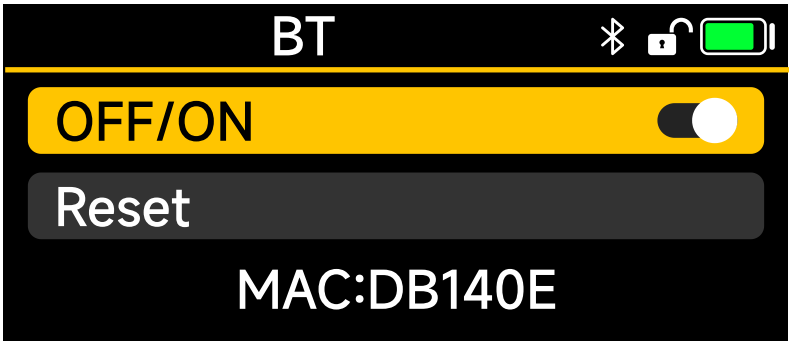


5.6.9 Setting of Bluetooth

This mode allows you to turn the Bluetooth function on/off. Bluetooth is on by default. The Bluetooth can be reset by selecting “RESET” and clicking “YES”. It means the reset is complete when “SUccESS” message prompts.

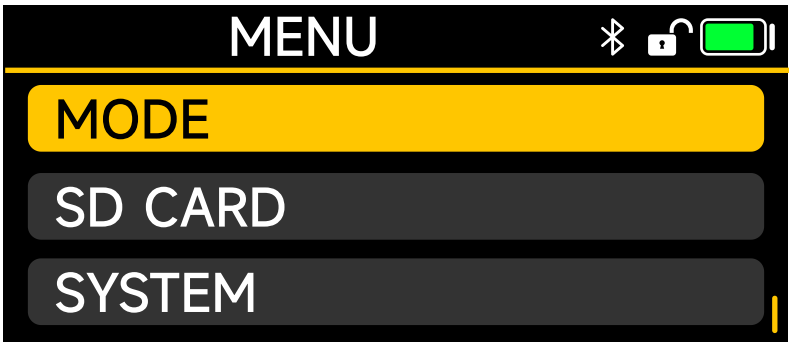
MAC address is the physical address No. of the current equipment, which is the unique identification code of the equipment from the factory, and different equipment can be distinguished when the cell phone is connected to Bluetooth.



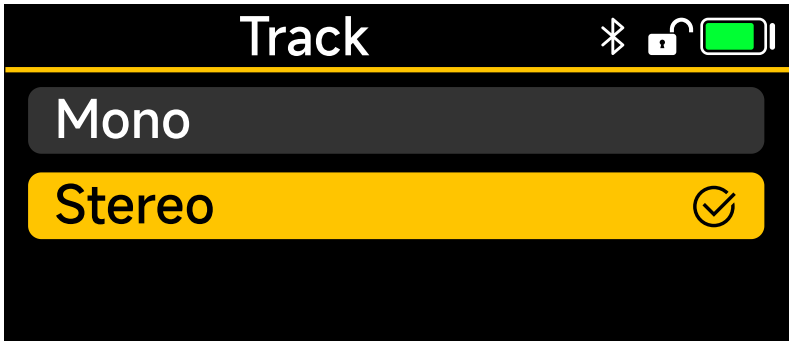


5.6.10 Setting of recording mode

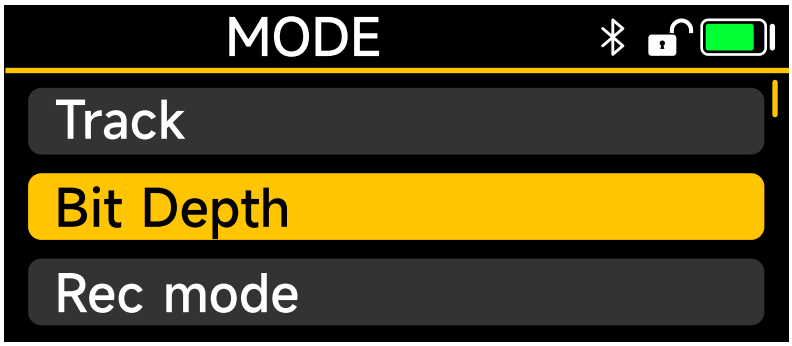
The recording parameters can be adjusted under this mode.



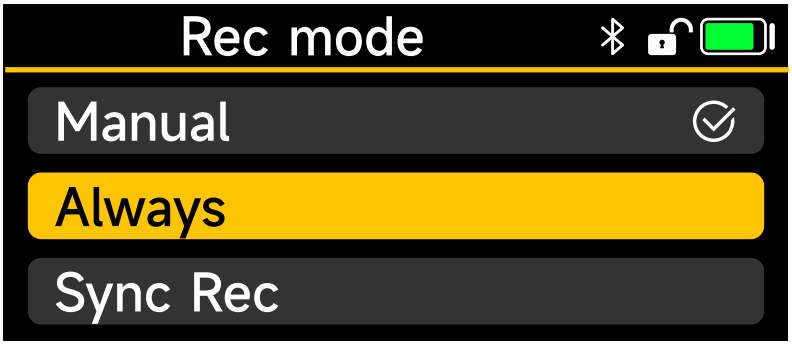
Track: The number of tracks for recording can be set under this mode. You can select Mono under Track to set the audio output to single track and select Stereo to set the audio output to stereo.



Bit Depth: Bit Depth mode allows you to set the number of blts to be recorded. You can choose between 24bit and 32bit Float recording, with the default sample rate being 48 kHz.

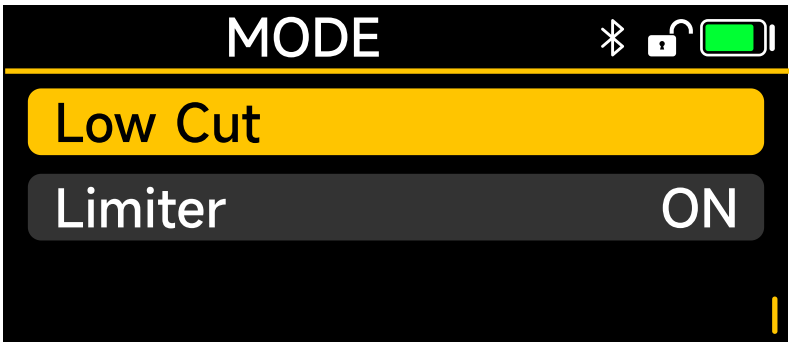


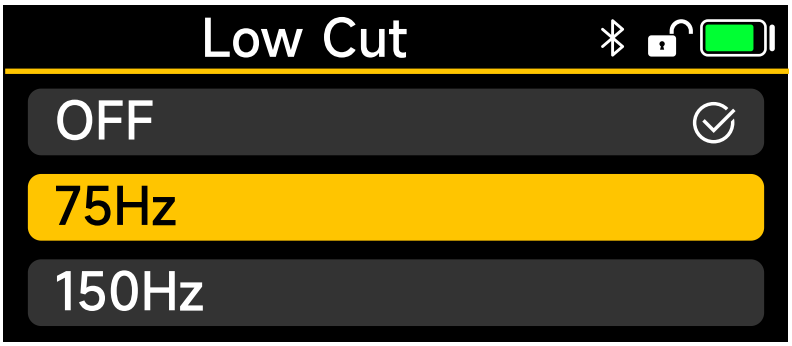
Rec mode: The default recording status can also be selected under this mode.
MANUAL can be selected to manually switch the recording stop status, and the initial default status of the equipment is MANUAL.
After selecting ALWAYS, it will start recording automatically after powering on the equipment.
Under the Sync Rec function, the equipment will start automatic recording after wireless synchronization.



Low Cut: This mode allows you to set the value of the low cut according to your usage needs, with three low cut value options available: OFF, 75Hz, 150Hz. With low cut, you can effectively remove low frequency noise from the audio signal for clearer and better quality audio effects.

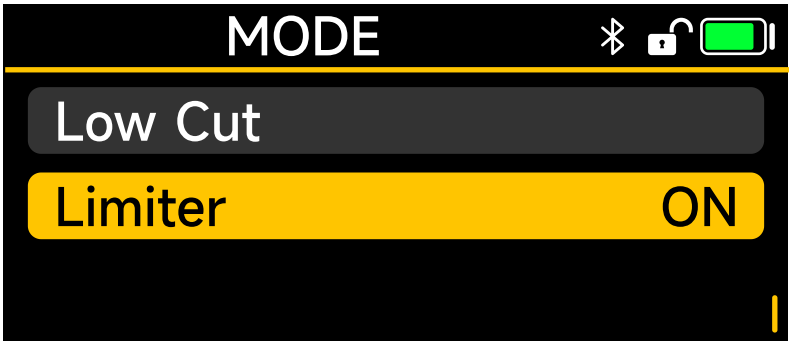
Please note that the Low Cut function should be adjusted according to your audio content and environment. Excessive use of the Low Cut function may affect the quality and realism of the original audio. Please make sure you understand the parameter settings of your equipment and make testing and adjustment in real applications before enabling the Low Cut function.





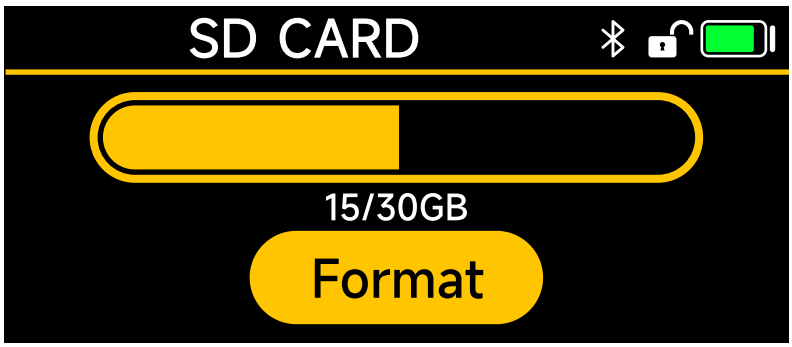
Limiter: (only supported when set to 24bit mono) With this limiter function, the strength of the audio signal can be automatically monitored and adjusted to ensure that the signal does not exceed the set amplitude threshold. The limiter will automatically reduce the excessive signal peak when the signal exceeds this threshold, thereby avoiding audio distortion and overload.

Please note that although limiters can prevent audio distortion, excessive use of limiters may cause dynamic range loss of the audio, making it appear dull and weak. Therefore, please make appropriate adjustments based on the actual recording environment and audio content when setting the limiter.



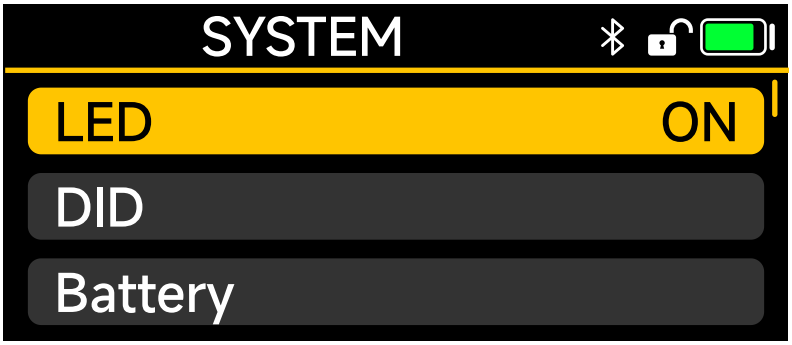
5.6.11 Setting of SD card

In this mode, the storage space occupied by the memory card will be displayed. The memory card can be formatted by selecting "FORMAT" and clicking "YES", and it means formatting is complete when "SUCCESS" message appears. (The memory card will be subject to higher recording stability if formatted first before application in the equipment.)

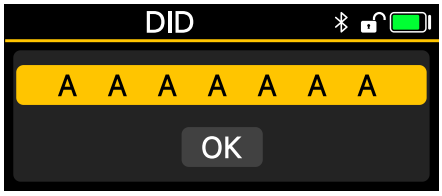


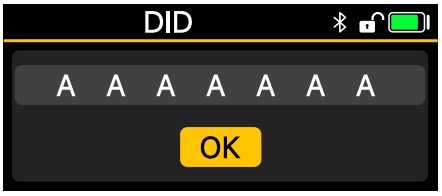
5.6.12 Setting of System

LED: In this mode, you can choose whether to turn on or off the LED indicator light of the equipment based on the application environment.



DID: In this mode, the name of the equipment can be modified based on your usage needs. You can select the character you need to adjust with the wheel selection key, short press the OK key by wheel to save the selection, and click the Return key to restore the previous settings.





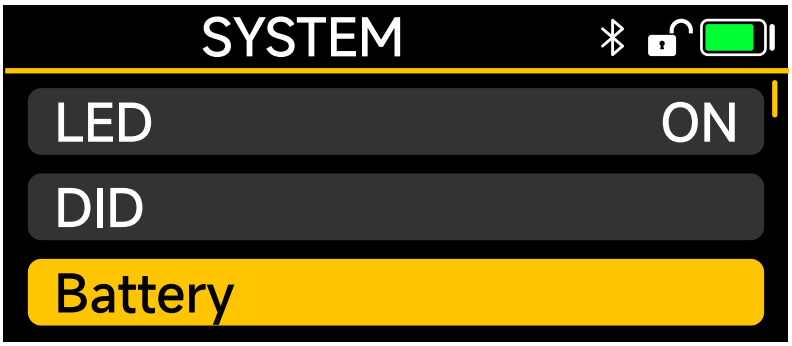
Battery: This mode allows you to select the corresponding battery type according to the actual usage, so that the remaining battery life of the equipment will be calculated more accurately. Four battery types are available in this mode:

DEITY AA： DEITY lithium-iron batteries.

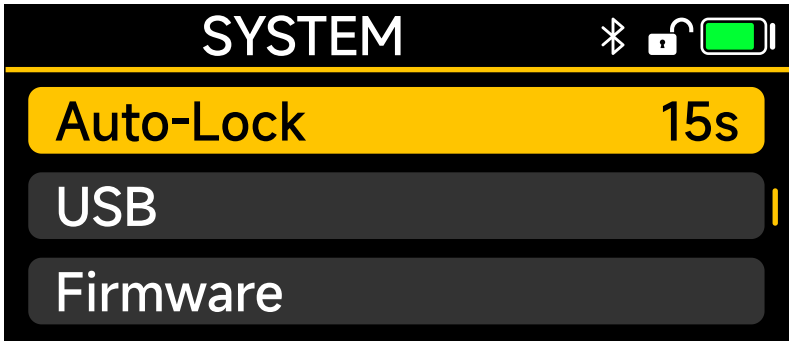
Alkaline： normal alkaline battery

Lithium： 1.5V stabilized lithium battery

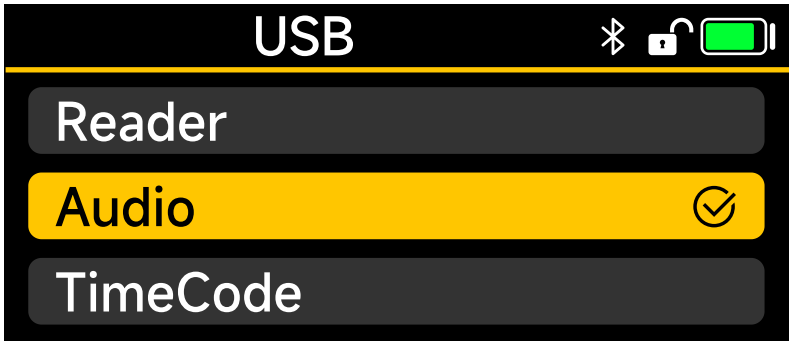
NiMH： 1.2V NiMH rechargeable battery

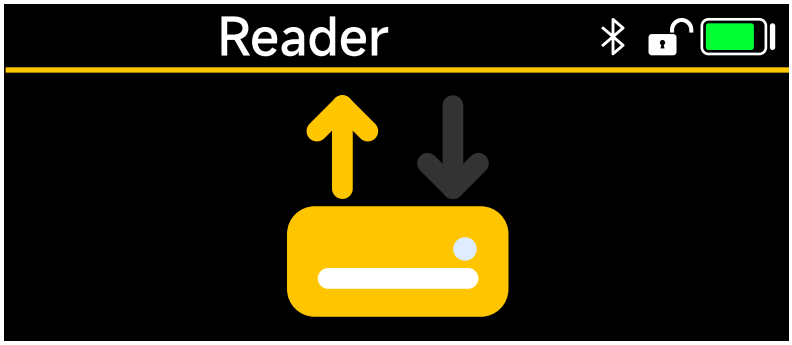


Auto Lock: In this mode, you can set the duration for the screen to stay lit when not in operation (system default 15s), three options are provided: “Never, 15S, 1min”. The system will keep the last setting after the first use.

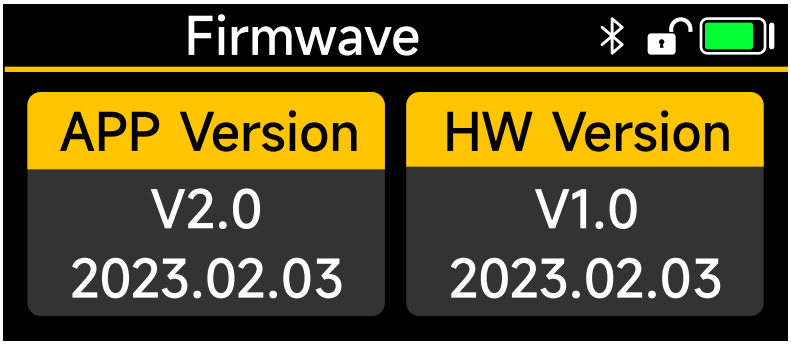


USB: In this mode, you can connect the PR-2 equipment to your computer via USB cable for quick transfer of recorded audio files.

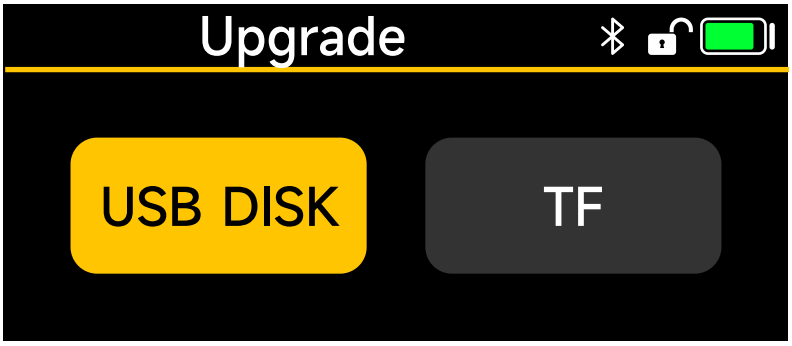




Firmwave: In this mode, you can view the APP version information that supports the equipment as well as the firmware version information of the current equipment.

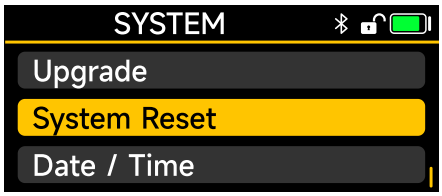


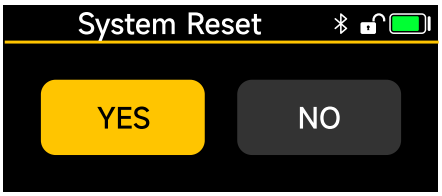
Upgrade: This equipment can be subject to hardware upgrade via USB disk or SD card, with exFat/FAT32 partition format USB disk supported. Please download the latest firmware from the official website and reserve it in the root directory of USB disk or SD card before upgrading. You can connect the USB disk to the USB Type-C input port with the "USB-C to USB-A Firmware Upgrade Adapter", or insert the SD card into the equipment. The firmware can be updated by selecting the "Upgrade" option in the menu and following the on-screen prompts. The latest version number of the firmware will be displayed after the firmware update is completed. You can enter the "Firmwave" option in the system setup menu to check the current firmware version information of the equipment.

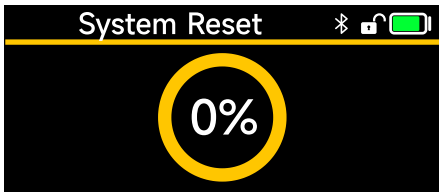


Please check whether the SD card or USB disk is correctly inserted into the equipment, or check whether the upgrade file is complete or reserved in the corresponding location as required if an exclamation mark is prompted, which may indicate that the SD card or USB disk has not been inserted into the equipment, or the equipment cannot read the internal upgrade file.

System Reset: In this mode, you can reset the system by clicking "YES" and it means the system settings reset is complete when the "SUCCESS" message appears.

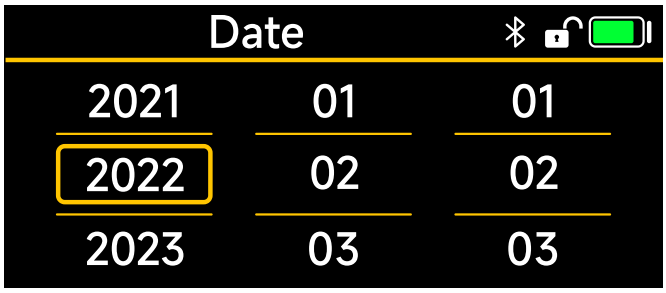


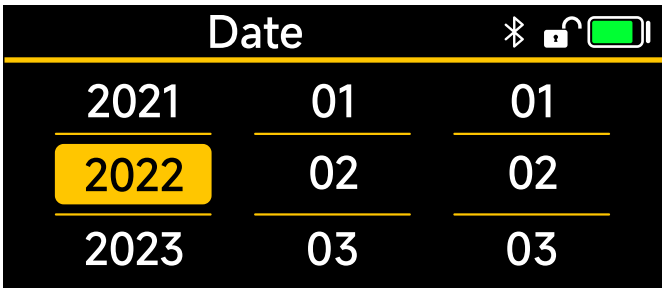




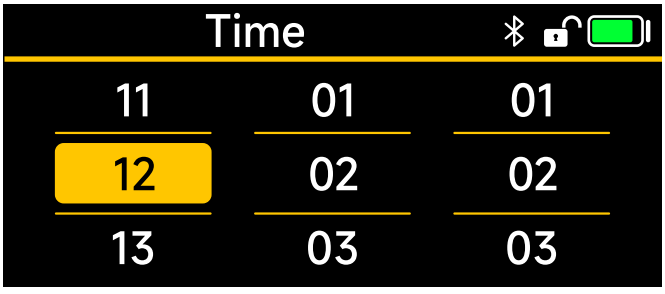
Date/Time: The date and time adopted can be set under this mode.

DATE setting can be customized for the equipment to set the current date information. You can click on the OK button to enter the date adjustment interface, adjust the date number by the wheel, click on the OK to save the set date information after the adjustment is complete, and then click Return to go back to the previous or initial setting of the date information.

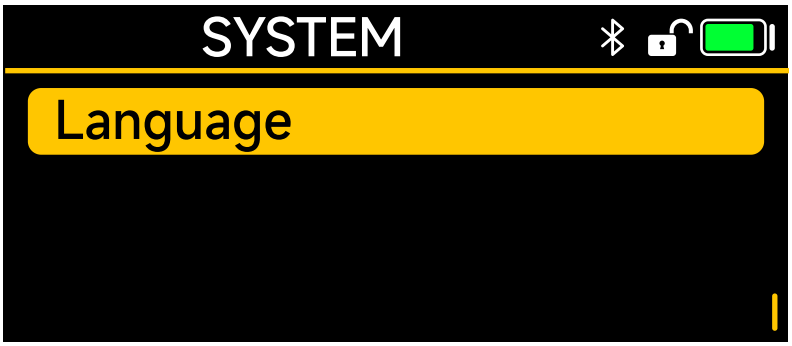


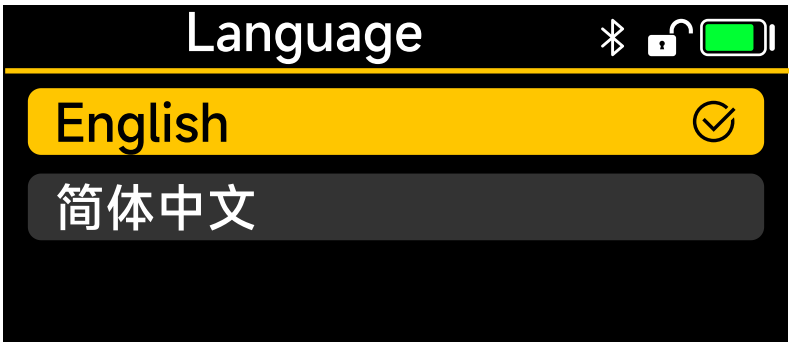


TIME setting can be customized for the equipment to set the current time information. You can click the OK button to enter the time adjustment interface, adjust the time number by the wheel, click OK to save the set time information after the adjustment is complete, and then click Return to go back to the previous or initial setting of the time information.

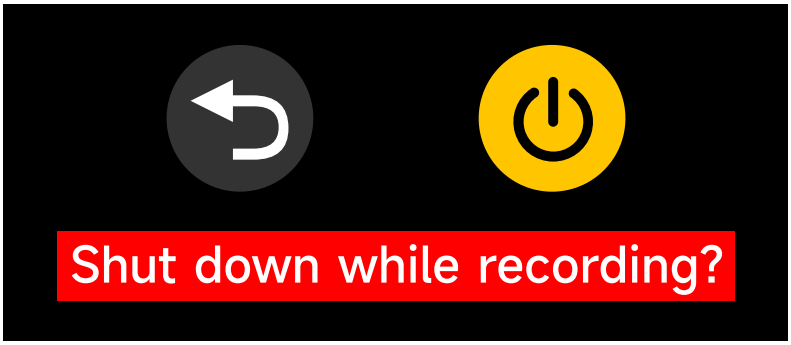


In language selection mode, you can switch the device display language according to your usage habits.





During the recording process, if you long press the power button, the device interface will display a prompt "Recording, do you want to shut down?" You can choose to back off or continue to execute the shutdown command according to the actual situation. If you choose to shut down at this time, the recording file will be automatically saved.



6. Specification parameters of PR-2

Maximum sample rate	48k
Built-in speaker	None
Memory card support	Up to 128GB
Bit depth	24 bit、32Bit float
Time code support	23.98、24、25、29.97、29.97DF、30、47.95、48、59.94、59.94DF、50、60
Analog input and output	1 input; 1 output
Digital input and output	None
Phantom power	None
Frequency response	20~20KHz
Gain/Trim range	-12 ~ +36dBu
Signal-to-noise ratio	90dB（+18dBu）
Bluetooth frequency band	2402~2480mHz
Battery capacity	DEITY AA 3000mAh
Power options	AA*2 / USB-C
Voltage	2~3V
Current	93~131mA
Operating temperature	-20~50℃
Body dimensions	58*55*18mm
Weight	40g（bare metal）

The above data was measured by Aputure Audio Laboratory, and the actual data shall prevail!

Reminder: The illustrations in the Use Guide are for reference only. Please refer to the product itself if there are any differences between this product and the illustrations in the User Guide due to the continuous development of new versions of the product.

Disclaimer

Please read the User Guide of this product before use to ensure correct use with complete understanding. Please keep the User Guide properly after reading for future reference. Failure to operate this product correctly may cause you or others serious injury, or result in product damage and property loss. It is deemed that you have understood, recognized and accepted all the terms and contents of this document once this product is put into use. The user shall undertake to be responsible for his/her own behavior and all consequences arising therefrom and Aputure shall not liable for any damages arising from the failure use of the product by users in accordance with the User Guide.

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