THEOS DIFB

User Manual

English

Preface

Thank you for using this product. In order to use this product better and safer, please read the user manual carefully.

Scope Of Application

This user manual is suitable for the THEOS wireless IFB system of Aputure Imaging Industries Co.,Ltd. (hereinafter referred to as Aputure), and describes its external dimensions, characteristics, technical requirements and precautions.
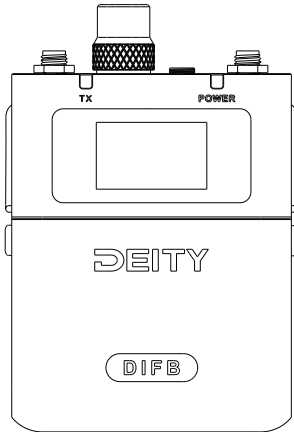
THEOS wireless IFB system is specially designed for film and television recording and shooting. It can provide stable wireless audio transmission and anti-interference ability in various environments and conditions, and is suitable for complex environments and multi-person use occasions. Full metal jacket is adopted with compact and portable design, which is easy to carry and install, simple and easy to use.
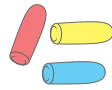
List of Content
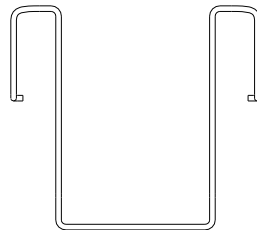
List Of Articles

Individually Packed List:

DIFB *1

Antenna cap
(red*2、 yellow*2、 blue*2)

Belt clip*1

SAM Antenna*2
(The length of antennas are different
in different regions)

KIT：

DIFB *3
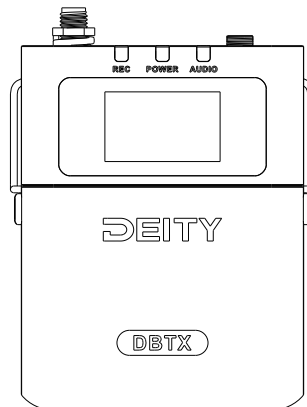
DBTX*1

Antenna cap
(red*4、 yellow*4、 blue*4)

C12*1
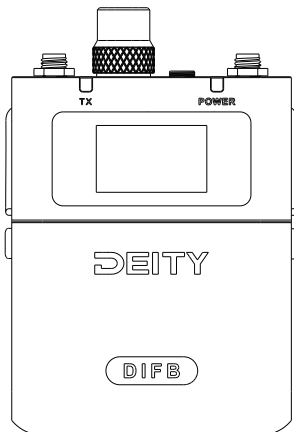
Belt clip*4
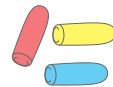
SAM Antenna*7
(The length of antennas are different
in different regions)

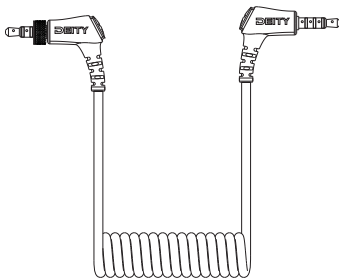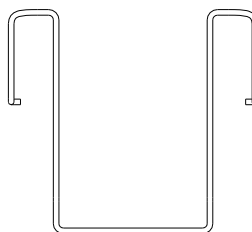** Tips: The illustrations in the manual are only diagrams for reference. Due to the continuous development of new versions of the product, if there are any differences between the product and the user manual diagrams, please refer to the product itself.*

Introduction

DIFB

Rotary / Push-Button

3.5mm Audio Output

Antenna Socket A

Antenna Socket B

TX Status Indicator

Power Status Indicator

USB-C Power Port

Screen

Battery Compartment
Lock Knob

Battery Compartment
Cover

DEITY

DIFB

Up Button

Down Button

ON/OFF/Back
Button

OK/MENU Button

Battery
Compartment

Belt

Tips: The illustrations in the manual are only diagrams for reference. Due to the continuous development of new versions of the product, if there are any differences between the product and the user manual diagrams, please refer to the product itself.

Installations And Use

DIFB Function Operations
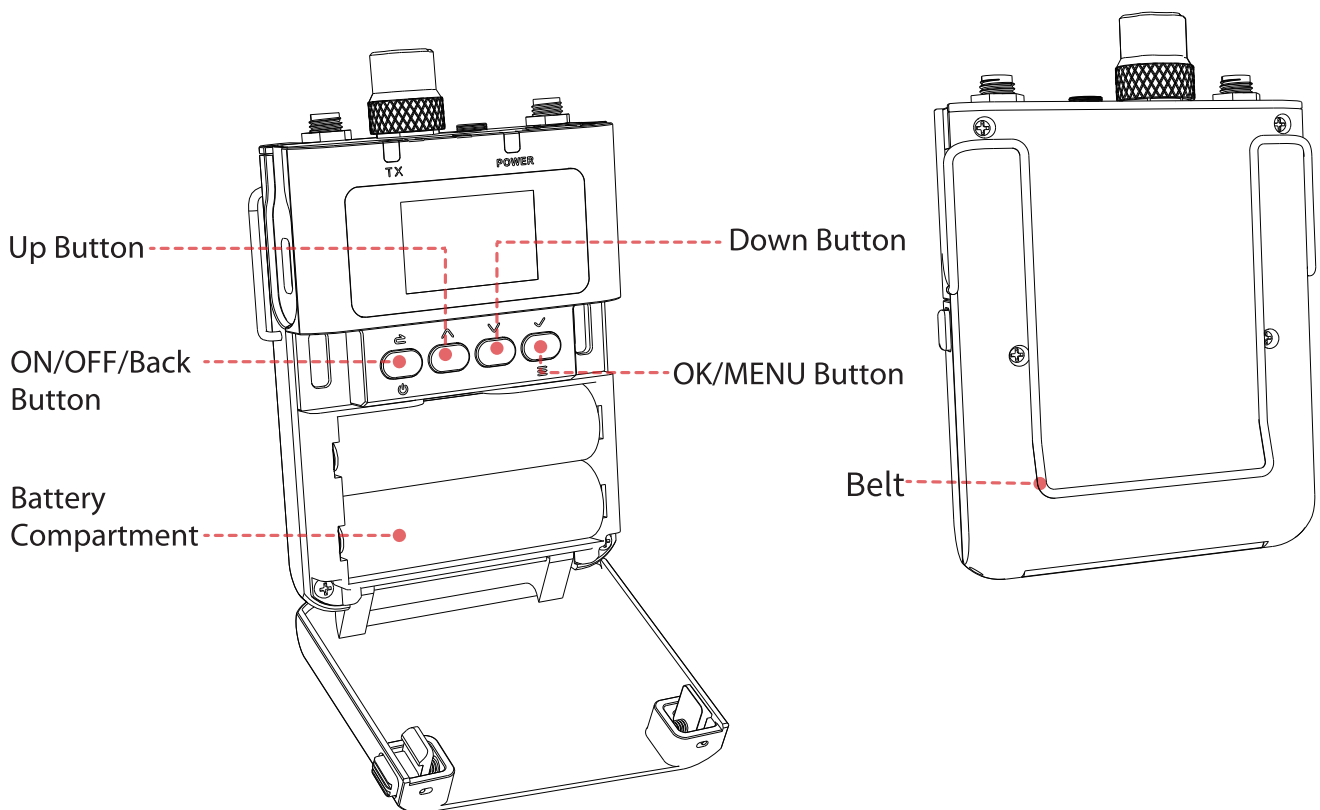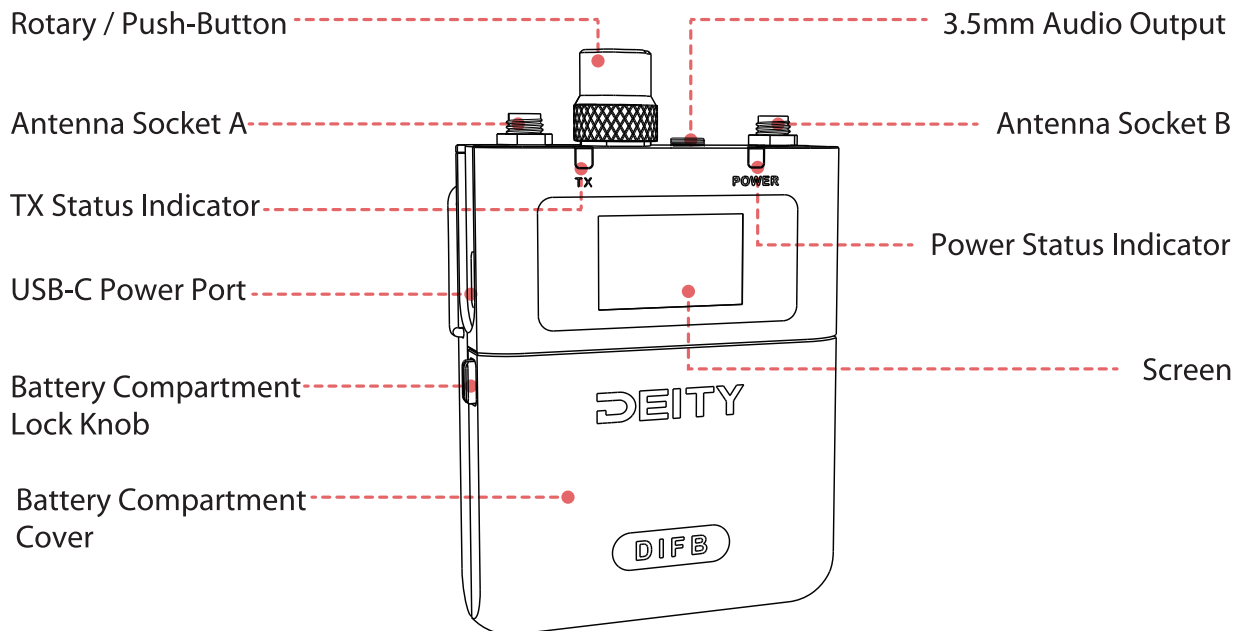
1. Button Functions

On/OFF/Back Button: long press to turn the DIFB on and off, It also functions as a "back" button while navigating the various menus and setup screens to return to the previous screen or menu item.

Up Button: Short press to adjust the selected item in the menu, or to switch the frequency within the frequency bank (when the main interface is focused on frequency operation), or to increase the volume (when the main interface is focused on volume operation).

Down Button: Short press to adjust the selected item in the menu, or to switch the frequency within the frequency bank (when the main interface is focused on frequency operation), or to decrease the volume (when the main interface is focused on volume operation).

OK /MENU Button: Short press to enter the menu selection and confirm the selected item within the menu.

Rotary / Push-Button :

• Short press to toggle between volume or frequency bank selection (when switching, the corresponding icon on the main interface will highlight);

• Press three times in quick succession to lock or unlock the device (when the device is locked, only volume adjustment is allowed);

• Rotate left to switch the frequency within the frequency bank (when the main interface is focused on frequency operation), or to decrease the volume (when the main interface is focused on volume operation).

• Rotate right to switch the frequency bank (when the main interface is focused on frequency operation), or to increase the volume (when the main interface is focused on volume operation).

Rotary / Push-Button

Up Button   Down Button

ON/OFF/Back Button   OK/MENU Button
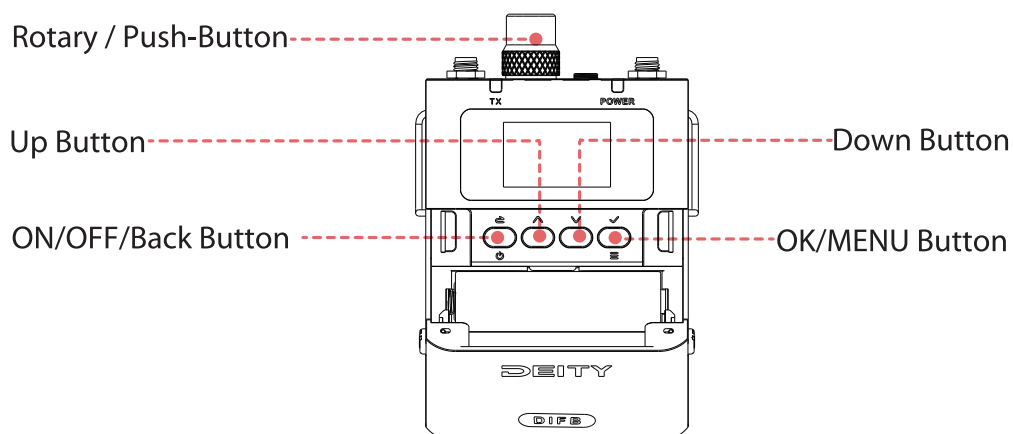
2. Antenna Installation

Rotate and install the matching antenna on the antenna socket on the upper part of DIFB, and then tighten and fix it to complete the installation of the antenna.The antenna of DIFB is a antenna with SMA interface.
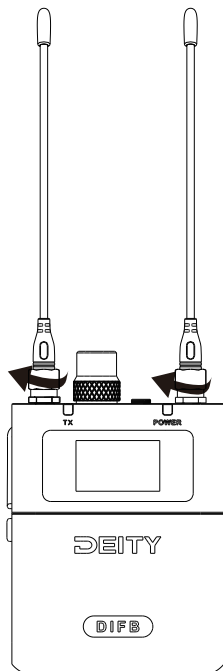
3. Battery Installation

Press the battery compartment lock/ unlock knob that located at both sides of DIFB at the same time, open the battery compartment cover and install the AA battery into the battery compartment in the right directions.

Press   Press   Battery
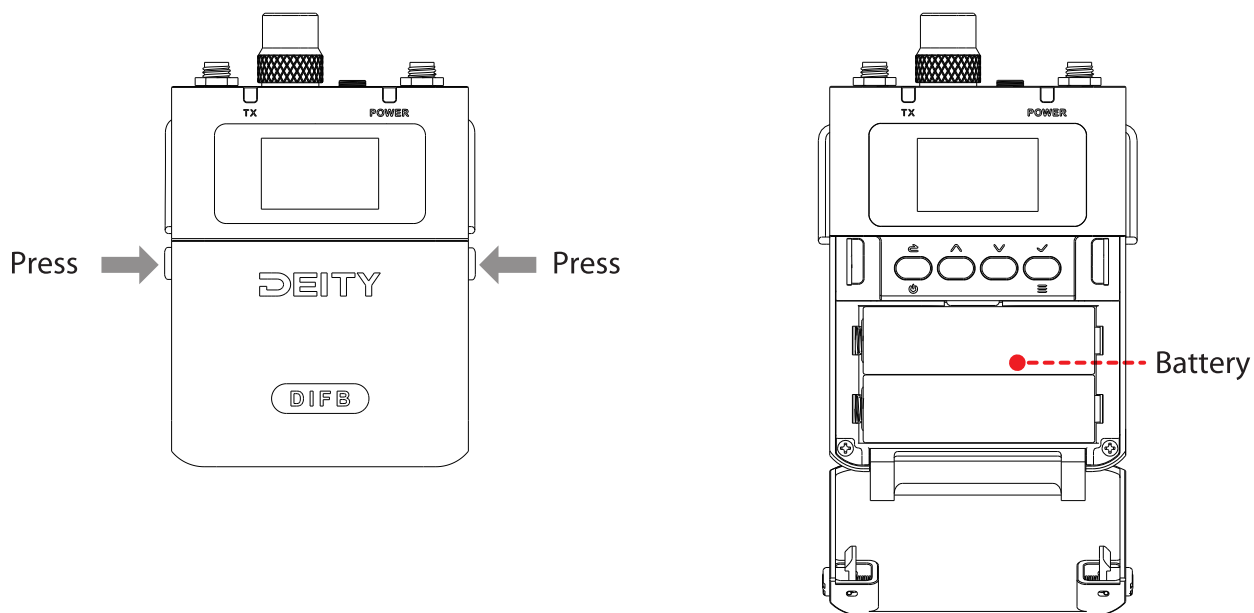
4. Installation Of Belt

Insert belt into the installation holes on both sides of the DIFB.

5. Definitions of LED Indicator
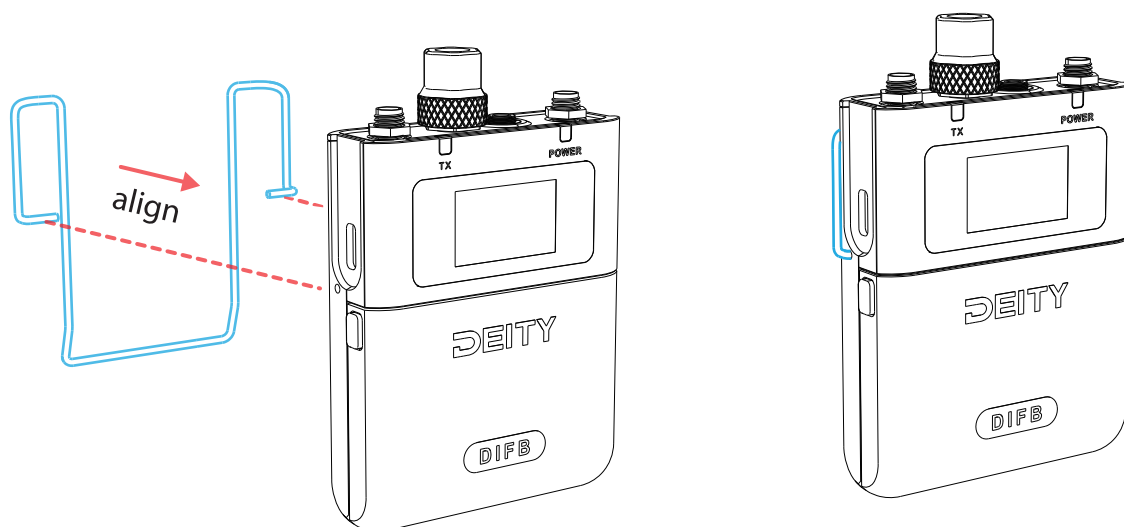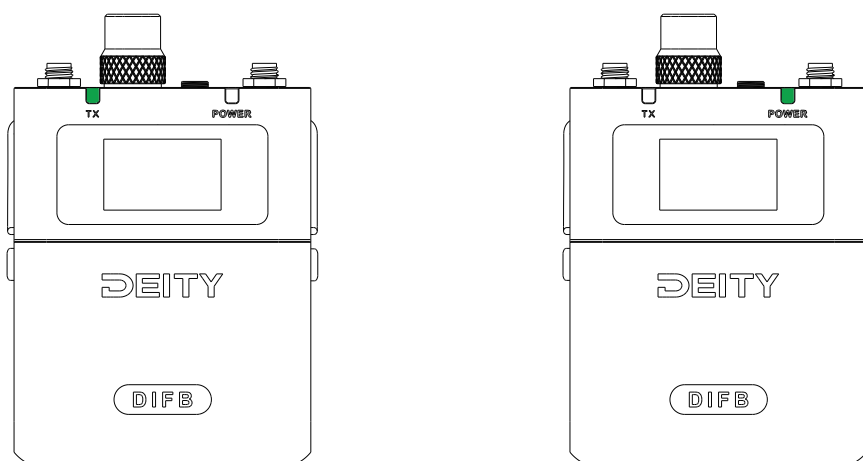
(TX) LED indicator:

The corresponding color and brightness will be displayed based on the transmitter's volume level:
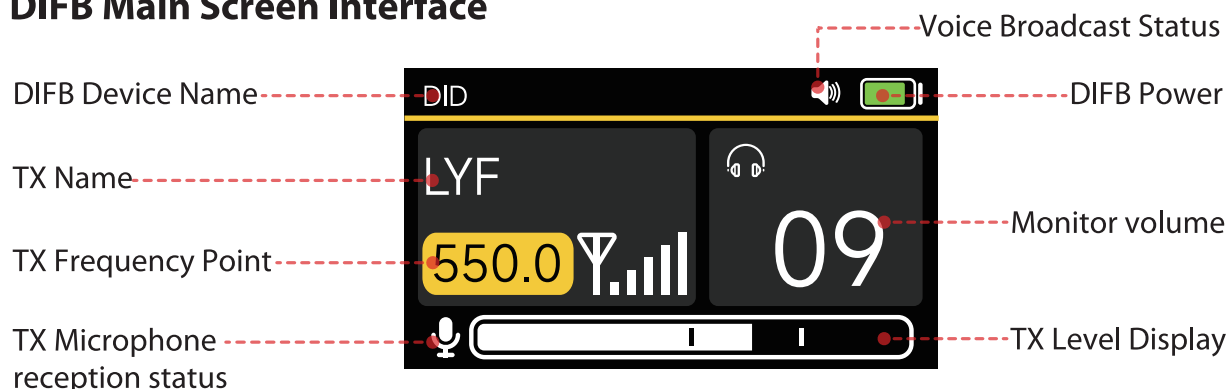
- From -40dB to -10dB, the light will display green.

- From -10dB to 0dB, the light will display red.

(POWER) LED indicator： The power led glows green when the battery is good. The color changes to red when the battery is low.

DIFB Interface Function Operation

DIFB Main Screen Interface

Voice Broadcast Status

DIFB Device Name

DIFB Power

TX Name

Monitor volume

TX Frequency Point

TX Microphone reception status

TX Level Display

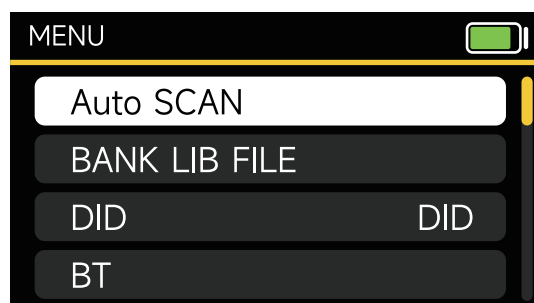## DIFB Menu Settings Operation

Press "Menu Button" to confirm.


Menu
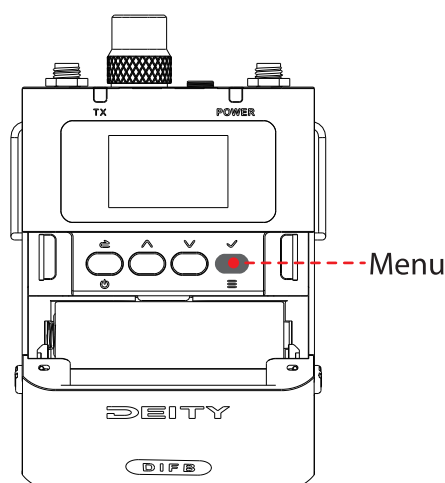
1. AUTO SCAN

In this mode, you can configure the settings related to frequency scanning.

SCAN CLEAN FREQ

In this mode, you can scan the wireless frequency information in the current environment and select

a frequency with minimal interference for use. After the scan is complete, a list of clean and optimal

frequencies will be displayed. You can select the desired frequency from the list and set the corresponding frequency on the TX device.
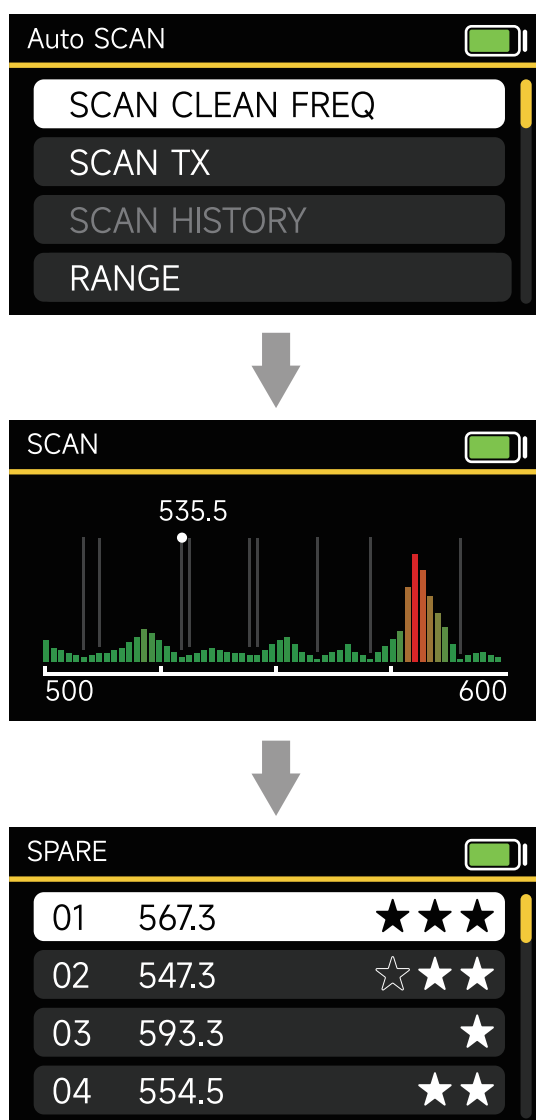
SCAN TX

In this mode, the system will automatically scan for all running TX devices in the current environment. After the scan is complete, all detected TX devices will be selected by default. You can use the up and down buttons and the OK button to select frequencies from the list. The selected frequencies will be synced to the "Bank lib file" by clicking the "Confirm" at the end of the list. (Once confirmed, the previous bank lib file data will be cleared.If the prompt says "No device," please check the TX device status and scan again.)

EXIST FREQ			
01	567.3	HKL	✓
02	547.3	CTVB	✓
03	593.3	EFGV	✓
04	554.5	FSTGDZF	✓

⬇

EXIST FREQ

CONFIRM

⬇

ADD LIB

✓

SUCCESS

No device :

AUTO SCAN FREQ

500   600

➡

EXIST FREQ

!
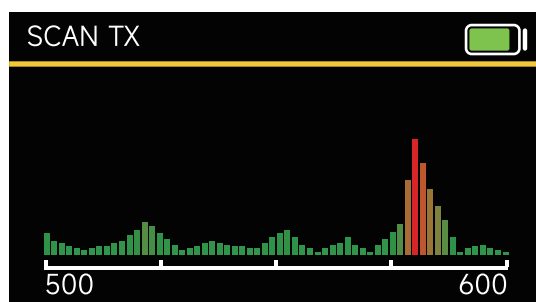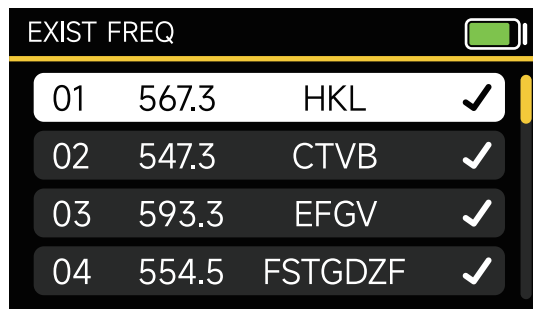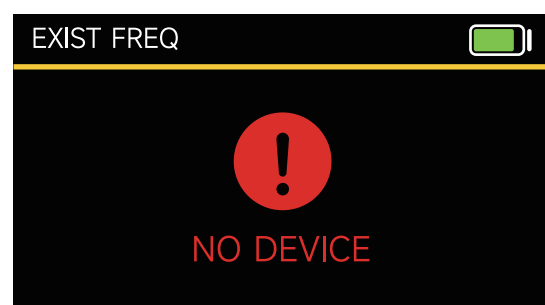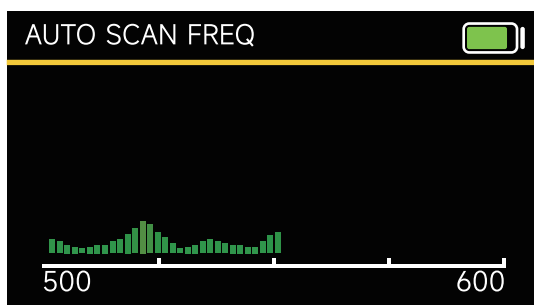
NO DEVICE

SCAN HISTORY

In this mode, you can view the TX device frequencies from the last search that have not been stored in the bank. You can also choose to add the frequencies to the bank lib. If no "TX scan" has been performed after powering on or if no devices were detected previously, this option will be grayed out.
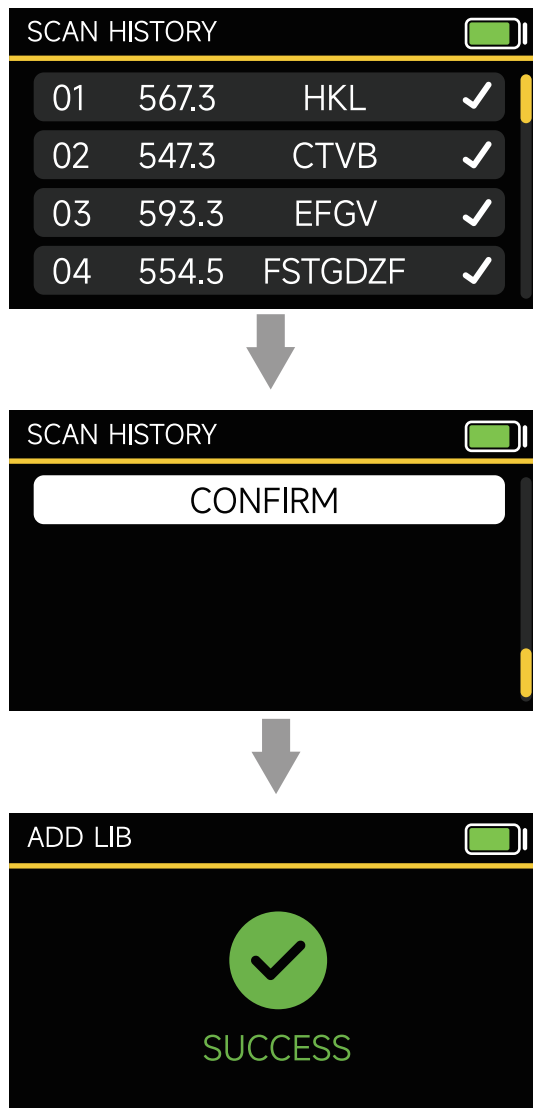
RANGE

In this mode, you can set the scanning frequency range,After pressing the confirm button to select the range, it will automatically return to the previous menu.
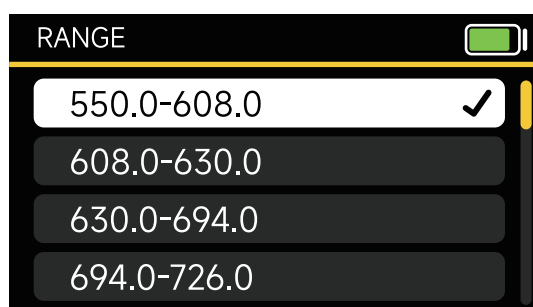
2. BANK LIB FILE

In this mode, you can view and set archived frequency information, or clear the currently saved frequency information.
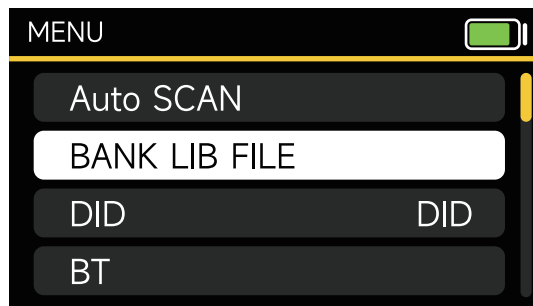
EXIST FREQ

In this mode, you can view and set the archived frequency information list, with a maximum storage capacity of 20 frequencies.
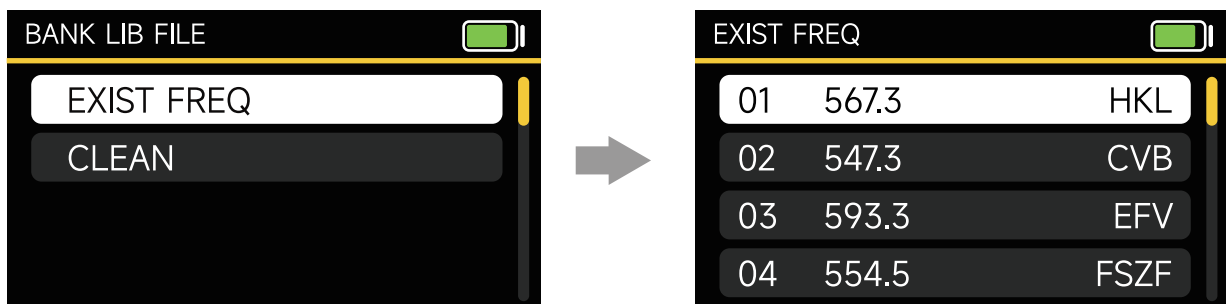
● **SET NAME:** You can modify the name of the displayed TX device according to your needs, select the characters to be adjusted by selecting the up and down buttons, and click OK button to save the selection or click back button to restore the previous settings.
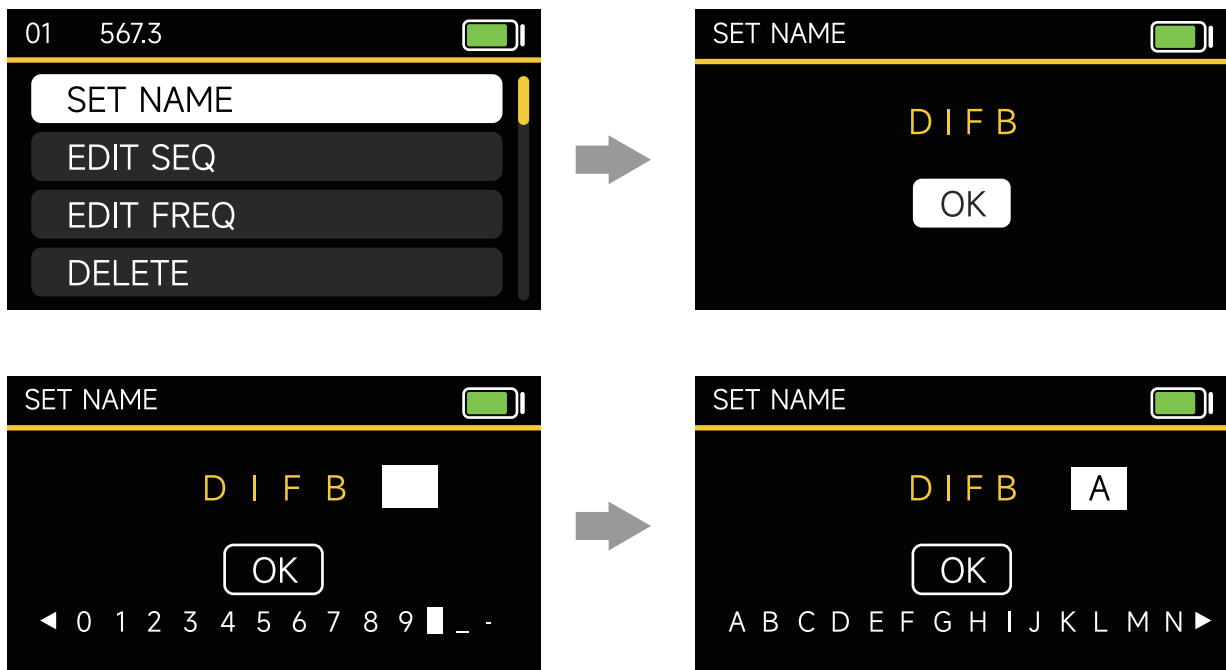
● **EDIT SEQ:** You can reorder the frequency point information saved in the library according to your needs. (Operate:Use the up and down buttons to select the serial number in the list that needs to be adjusted, click OK button to enter the sub menu and choose "EDIT SEQ," then use the up and down

buttons to select the serial number of the content to be swapped, and press the OK button to complete the swap, and the system will automatically return to the previous menu.

EXIST FREQ		EDIT SEQ		
NEW REMARK		01	547.3	CVB
EDIT SEQ	→	02	567.3	HKL
EDIT FREQ		03	593.3	EFV
DELETE		04	554.5	FSZF

● **EDIT FREQ:** You can edit the frequency points in the library according to your needs. By long pressing the up and down buttons, you can quickly adjust the frequency values.

EXIST FREQ		EDIT FREQ		
NEW REMARK		01	567.3 ⇕	HKL
EDIT SEQ	→	02	547.3	CVB
EDIT FREQ		03	593.3	EFV
DELETE		04	554.5	FSZF

● **DELETE:** You can delete the selected frequency point according to your needs. Once the operation is completed, the system will automatically return to the previous screen.

EXIST FREQ		DELETE		
NEW REMARK		01	567.3	HKL
EDIT SEQ	→	02	547.3	CVB
EDIT FREQ		03	593.3	EFV
DELETE		04	554.5	FSZF

DELETE	
YES	NO
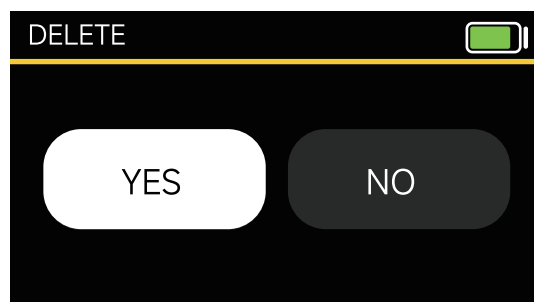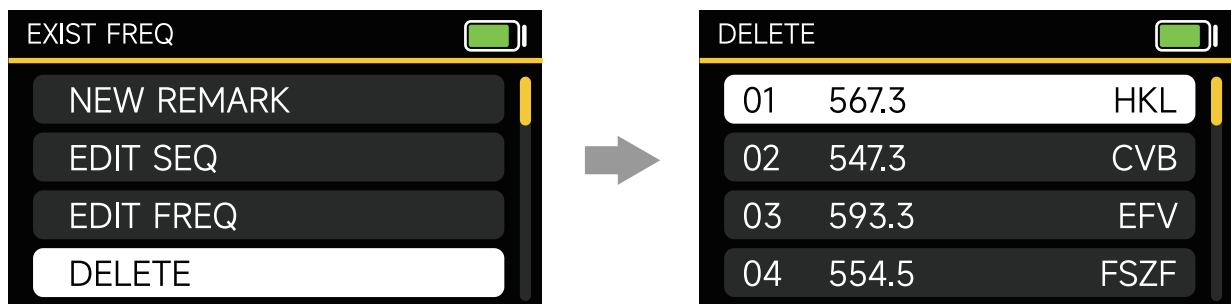
Click on a blank item in the list to customize and set a frequency. After completing the settings, click OK button to save the configured information. Clicking back button will return you to the previous or initial settings.

CLEAN

In this mode, you can clear all stored frequency information from the bank lib file.
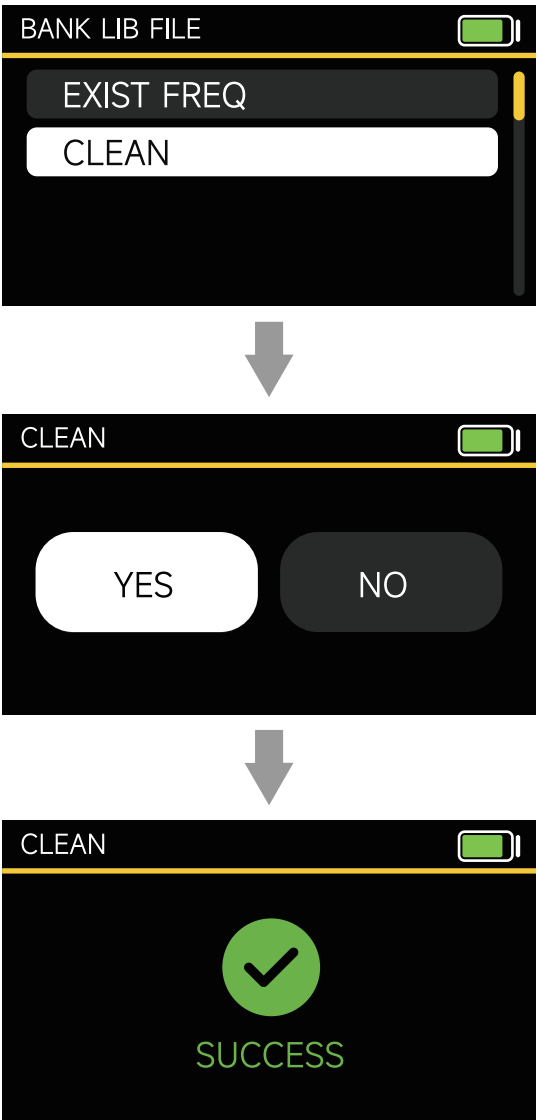
3. DID

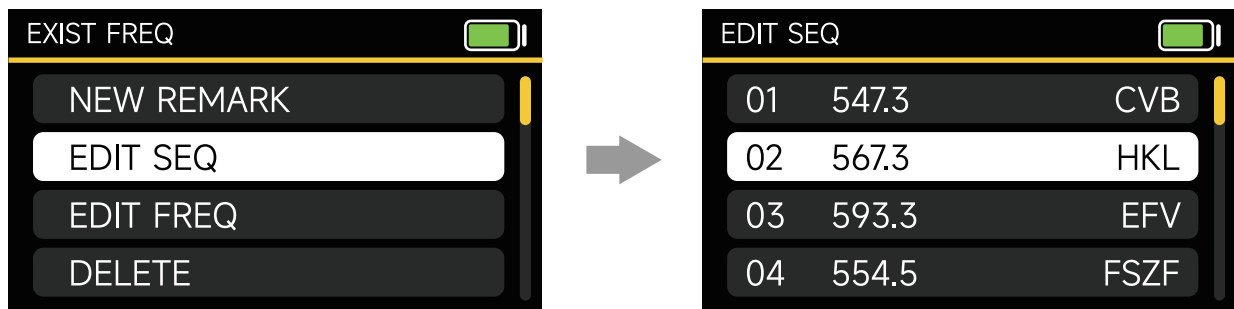In this mode, you can change the name of the device according to your needs, select the characters to be adjusted by selecting the up and down buttons, and click OK button to save the selection or click back button to restore the previous settings.
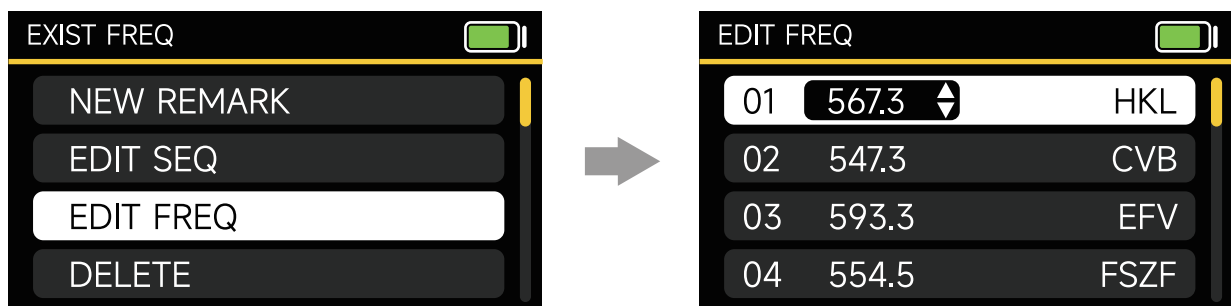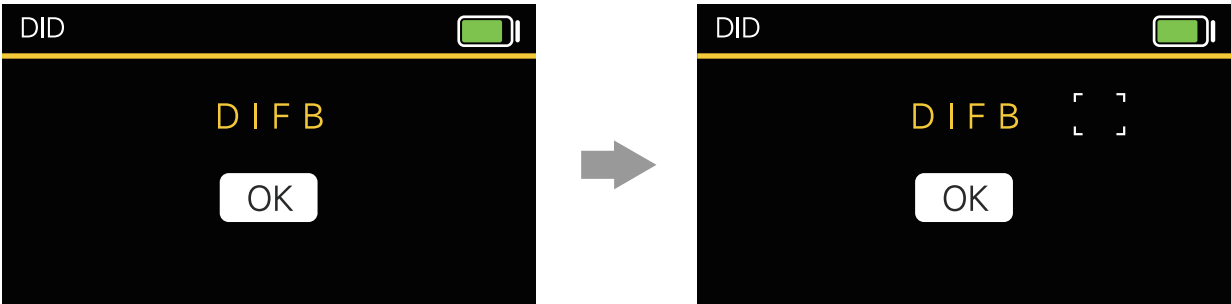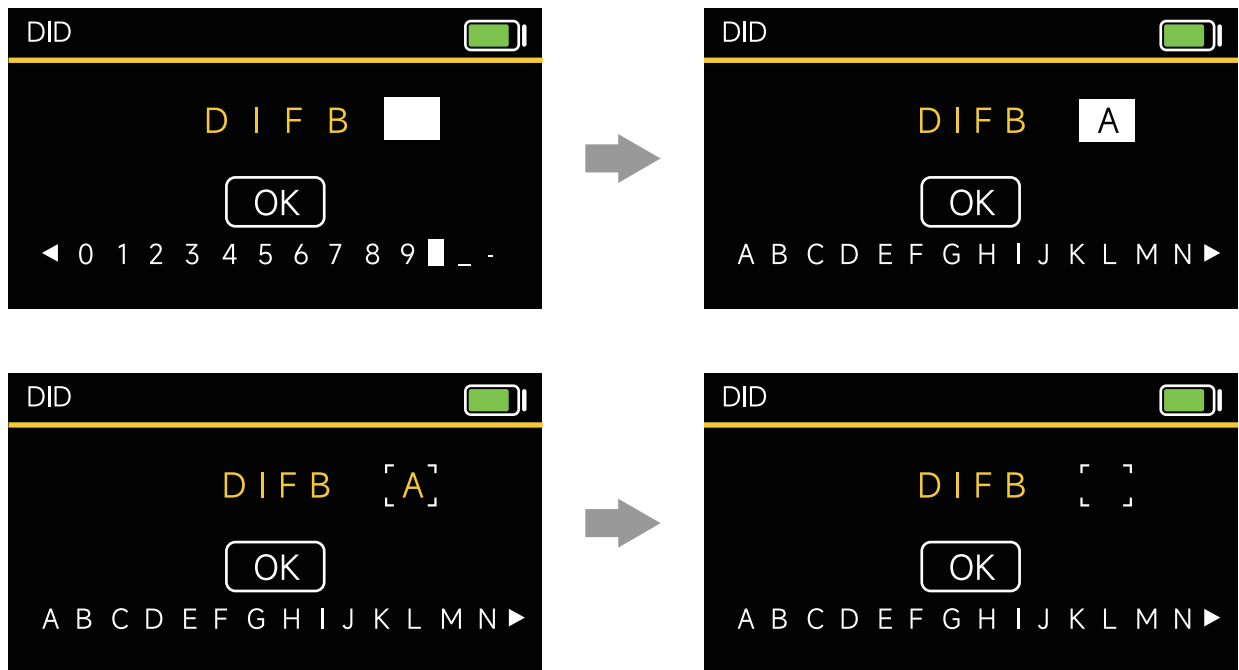
4. BT

In this mode, you can turn the Bluetooth APP function on/off, turn the Bluetooth headphone monitoring function on/off, and to access Bluetooth headphone settings and connection options.
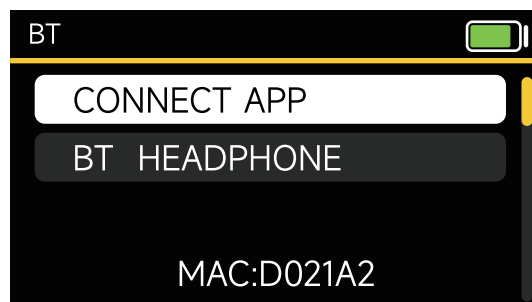
CONNECT APP

Once enabled, you can use the Sidus Audio APP to connect and control the device. This function is turned on by default.
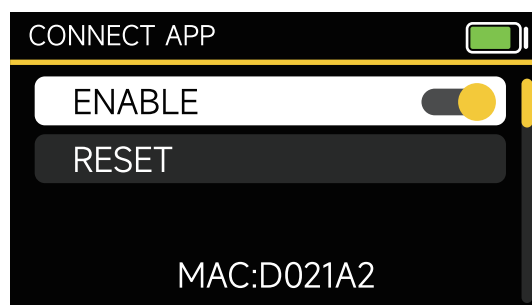
Select "RESET" and click "YES" to reset Bluetooth. When the "SUCCESS" message appears, it means that the reset is complete.
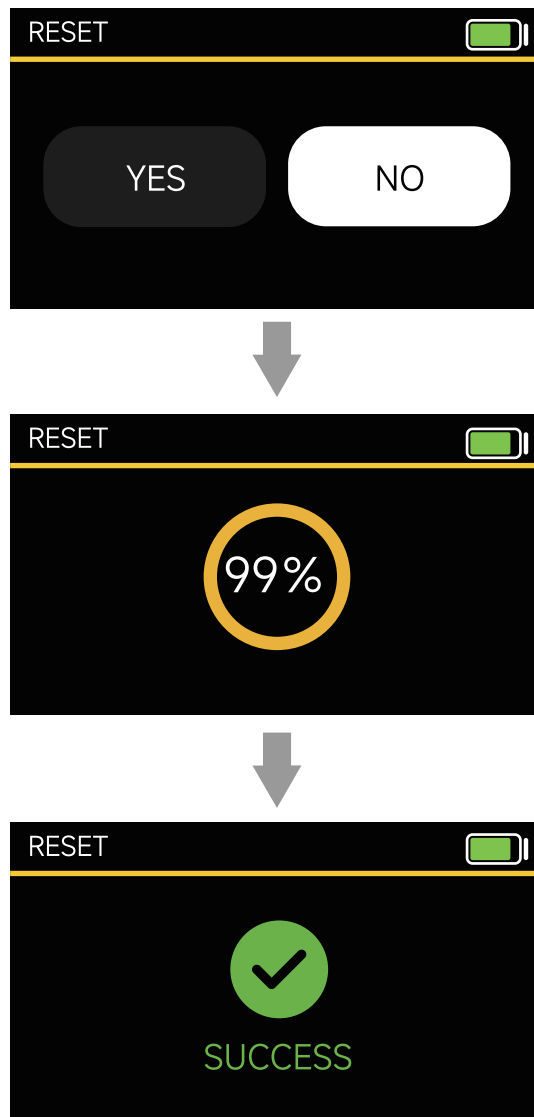
The MAC address is the Bluetooth physical address number of the current device, which is the unique identification code of the device from the factory, and can distinguish different devices when the mobile phone is connected with Bluetooth.

BT HEADPHONE

Once enabled, you can connect Bluetooth headphones directly to the device for monitoring.To ensure proper use of the Bluetooth headphone, enabling this function will automatically disable the "Connect APP" feature and disconnect the DIFB from the mobile APP.
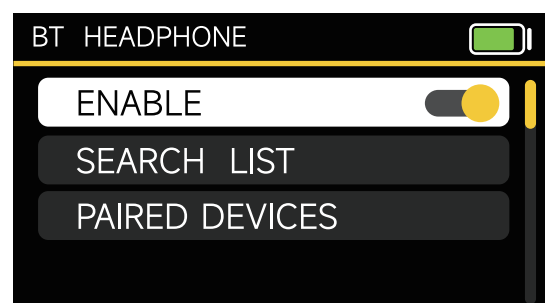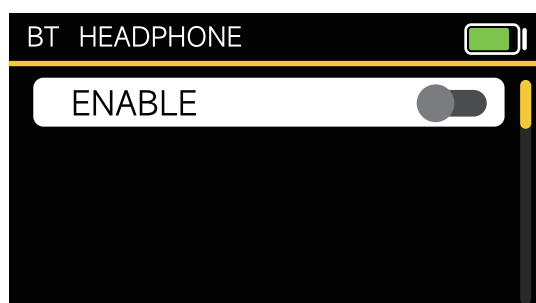
SEARCH LIST: For first-time pairing, search for available Bluetooth headphones. After the search is complete, select the target device to connect. If the desired headphone is not found, please ensure it is in pairing mode and try searching again.

BT HEADPHONE	BT WAIT
ENABLE **SEARCH LIST** PAIRED DEVICES	

DEVICES	CONNECT
MAC:D021A2 MAC:D041A2 MAC:D021G2 MAC:D581O3	CONNECT NO
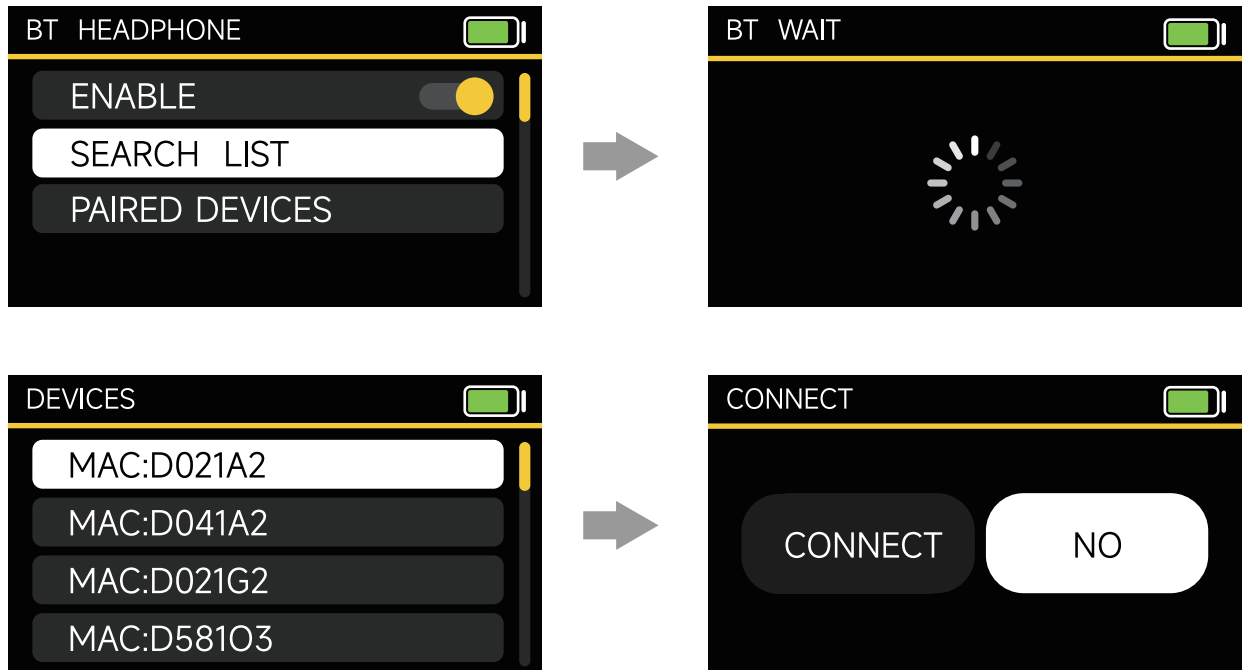
PAIRED DEVICES: All previously paired Bluetooth headphones will be listed. The currently connected headphone will be highlighted in yellow.

Use the "Up/Down" buttons to select and reconnect a headphone from the list, or choose "Ignore" to delete it from the pairing history.

DEVICES	DEVICES
MAC:D021A2 MAC:D041A2 MAC:D021G2 MAC:D581O3	MAC:D021A2 **MAC:D041A2** MAC:D021G2 MAC:D581O3

CONNECT	CONNECT
CONNECT IGNORE	
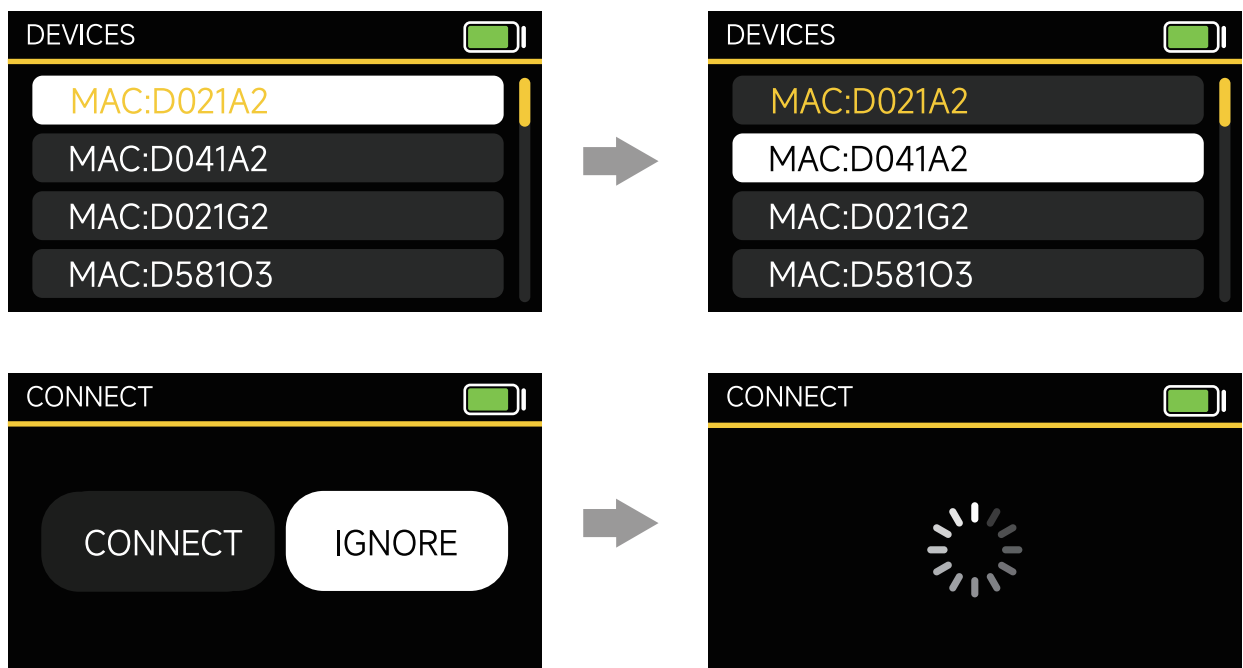
5. ECO MODE

You can turn the ECO mode feature on or off. ECO mode is set to off by default. When ECO mode is activated, the device will reduce screen brightness and enter a low-power mode.
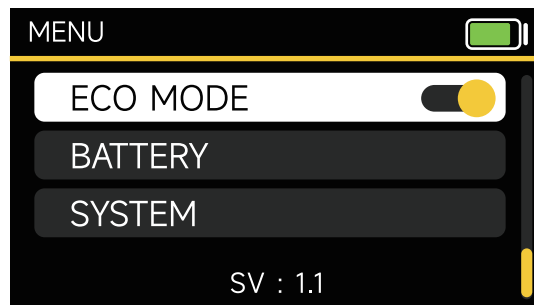
6. BATTERY

In this mode, you can choose the corresponding battery type according to the actual usage, so that the machine can calculate the remaining battery life of the device more accurately （High-voltage batteries not supported). There are four battery type options in this mode:

DEITY AA: DEITY lithium iron battery;

Alkaline: a traditional alkaline battery;

Lithium:1.5V stabilized lithium battery;

NiMH:1.2VNi-MH rechargeable battery.
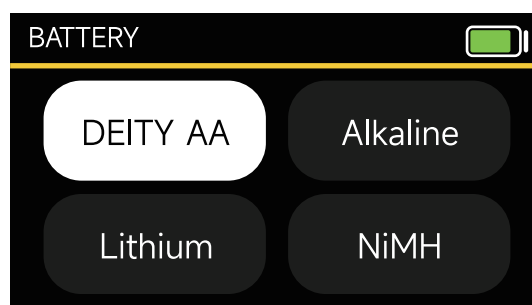
7. SYSTEM
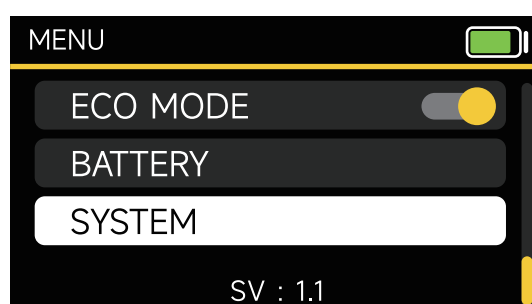
SYSTEM——SCREEN

In this mode, you can choose to set the time for the screen to light continuously when it is not in operation (the system defaults to 15s). There are four options: Never, 15s, 1min and 5min. After the first use, the system will keep the previous settings.

SYSTEM	🔋
SCREEN	
BRIGHTNESS	
LED	⬤
ROTARY SWITCH	

➡

SCREEN	🔋
NEVER	15s
1min	5min
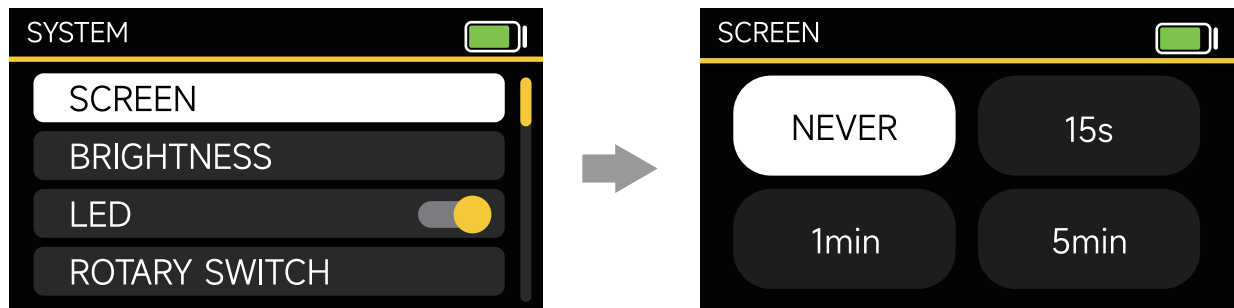
SYSTEM——BRIGHTNESS

In this mode, you can choose to adjust the brightness of the screen, and five brightness gears can be adjusted. By default, the brightness is the brightest "5". After you adjust the settings, the system will keep the previous settings.

SYSTEM	🔋
SCREEN	
BRIGHTNESS	
LED	⬤
ROTARY SWITCH	

➡

BRIGHTNESS	🔋
03 ▲▼	
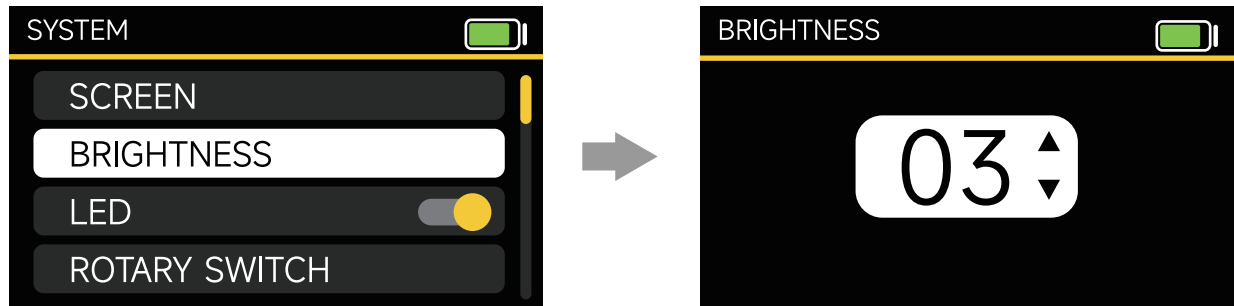
SYSTEM——LED

In this mode, you can choose to turn the LED indicator light on or off at the top of the device, with the system set to on by default.

SYSTEM	🔋
SCREEN	
BRIGHTNESS	
LED	⬤
ROTARY SWITCH	

➡

SYSTEM	🔋
SCREEN	
BRIGHTNESS	
LED	⬤
ROTARY SWITCH	
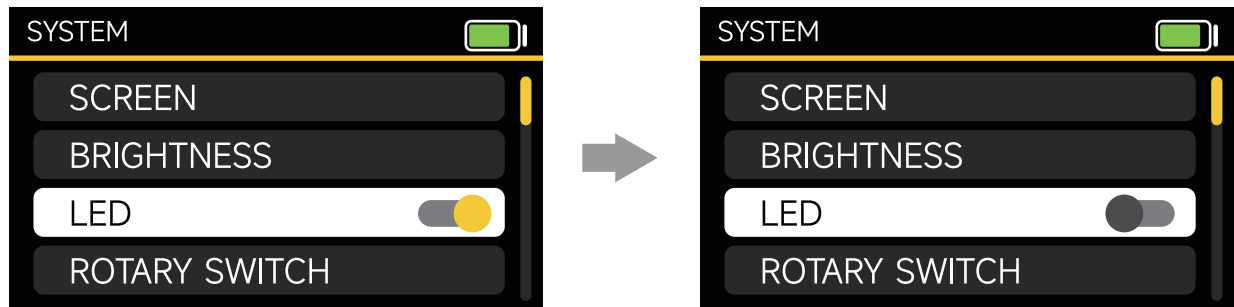
SYSTEM——ROTARY SWITCH

In this mode, you can define the functionality of the knob button. When you select "Volume," the knob button will only be used for volume adjustment. When you select "All," the knob button can be

20

used for both volume adjustment and frequency switching.
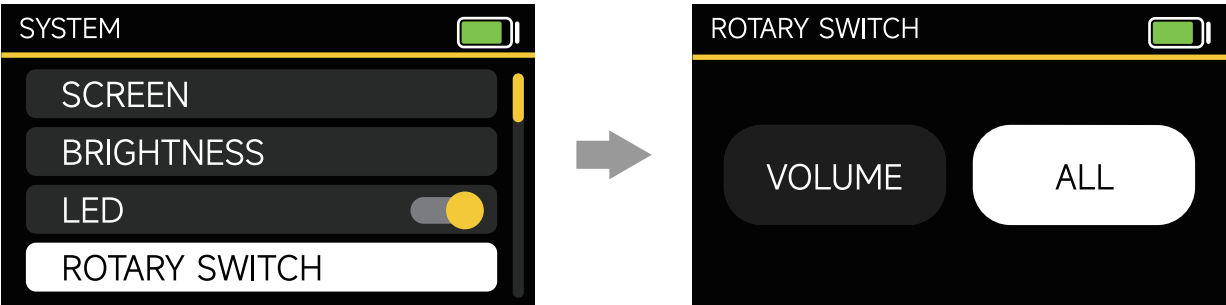
SYSTEM——TTS

In this mode, you can choose to turn the frequency adjustment voice broadcast feature on or off for the device, with the system set to enable voice broadcast by default.
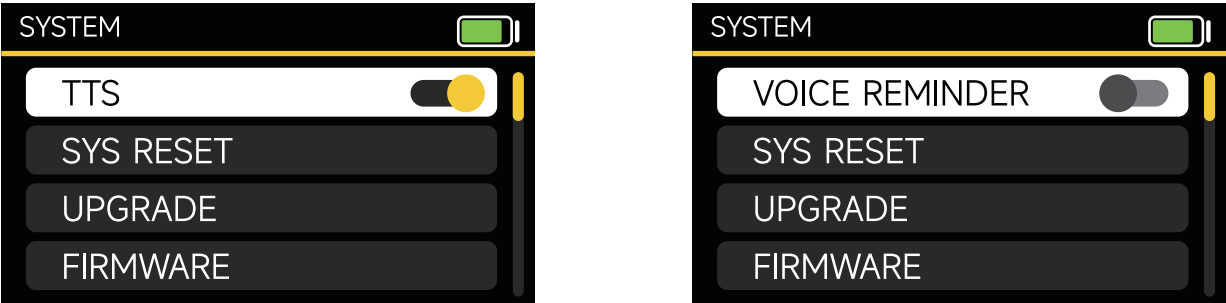
SYSTEM——SYS RESET

In this mode, you can choose to reset the system (system reset only resets the device system settings, not the frequency band data), click "YES" to reset the system settings, and when the "SUCCESS" message appears, the system settings are reset.
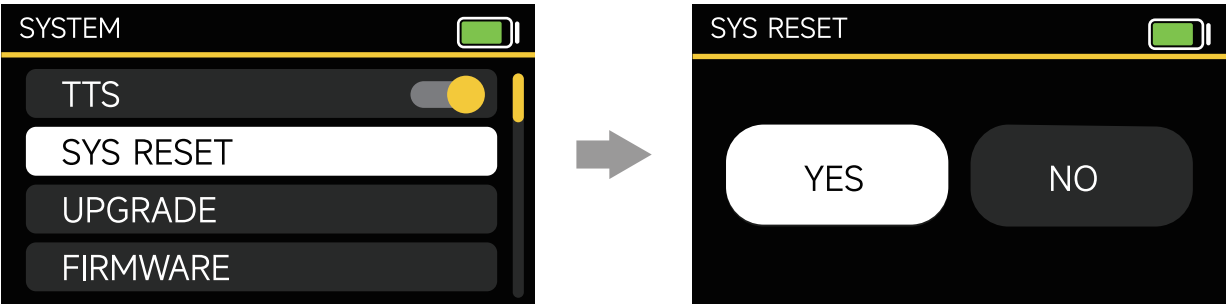
SYSTEM——UPGRADE

This product can be upgraded by USB STICK or SidusAudio APP, and supports exFat/FAT32 partition format U-Disk. When upgrading, please load the latest firmware in official website and put it in the root directory of U-Disk. You can use "USB-C to USB-A firmware upgrade adapter" to connect U-Disk to USB Type-C input port. After the firmware update is completed, the firmware version will display the latest version number. You can enter the "FIRMWARE" option in the system settings

menu to inquire the firmware version information of the current device.

If you don't insert the U-Disk into the device, or the device can't read the internal upgrade file, "NO DISK" will be prompted. Please check whether the U-Disk is correctly inserted into the device, or whether the upgrade file is complete or placed in the corresponding position as required.
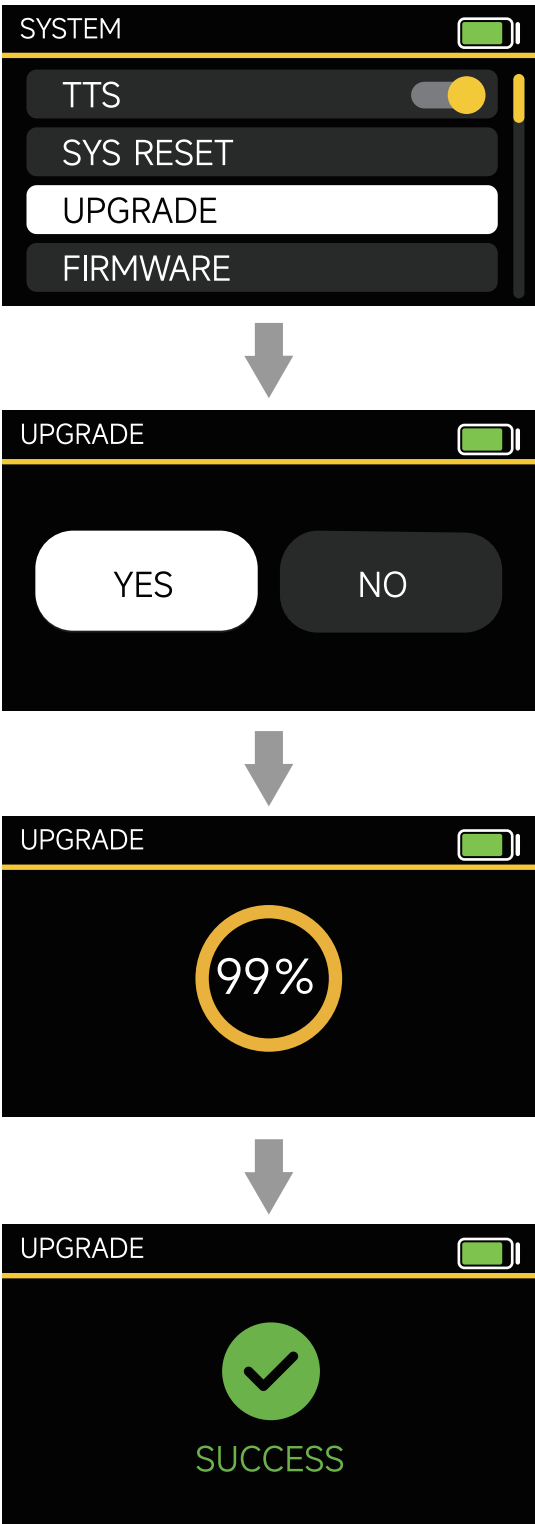
SYSTEM——FIRMWARE

This mode can view the version information of the current device and the date information when the version is updated.

SYSTEM	
VOICE REMINDER	
SYS RESET	
UPGRADE	
FIRMWARE	

FIRMWARE	
APP VERSION	HW VERSION
V2.0 2024.09.18	V1.0 2024.10.18
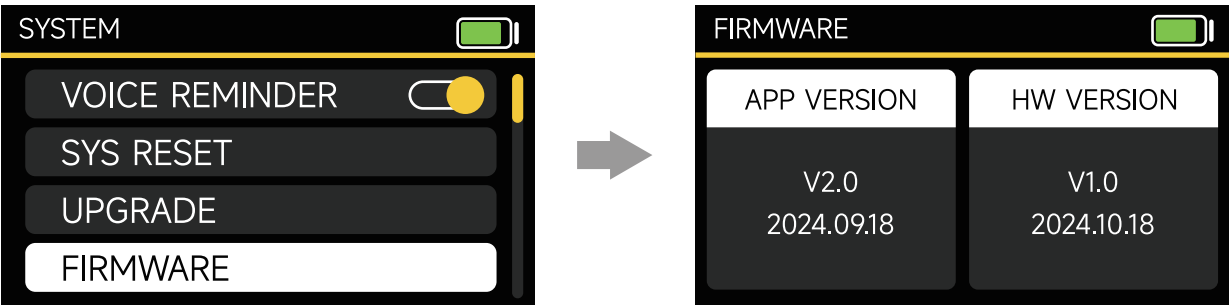
SYSTEM——LANGUAGE

In this mode, you can set the display language for the device. This product supports interface display in Chinese or English. After entering the language settings, use the up and down buttons to select the language. Once adjusted, click "OK" to save the selected language. Clicking "Back" will return to the previous or default language setting.

SYSTEM	
LANGUAGE	

LANGUAGE	
简体中文	✓
ENGLISH	
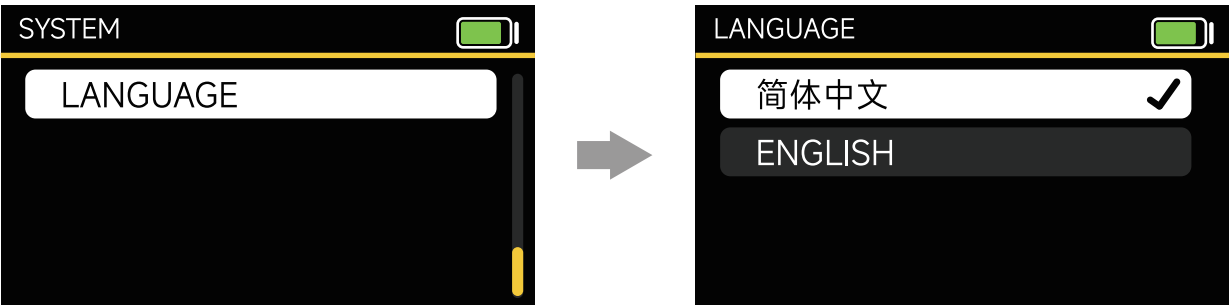
DIFB Specifications And Parameters

RF Modulation	Proprietary Digital RF Modulation
RF Freq Ranges	According to different regions, the legitimate frequencybands in line with local conditions are allocated
RF Frequency Step	100kHz
RF Bandwidth	200kHz
Minimum Frequency Interval	700kHz
Antenna Connector	2 x 50ΩSMA
Dynamic Range	105 dBm
Distortion	＜0.5%
DAC Bit-Depth	24 bit
Power	
Battery Type	AA Battery×2
Battery Life (DEITY AA/Turn off BT)	17h
Physical	
Dimensions(H x W x D)	82.5x 64.21x19.90 mm
Weight	Without battery and antenna: 105.5g Without battery and with antenna: 116.5g With battery and antenna: 148.5g
Operating Temperature	-20℃~45℃(-4°F~133°F)
Suggested iimpedance for headphones	< 64 Ohms

The above data are all measured by Aputure Audio Lab, which is subject to the physical data!

Note: The illustrations in this manual are only for reference. Due to the continuous development of the new version of the product, if there is any difference between this product and the user manual, please refer to the product itself.

BT Headphone Compatibility

BT Headphone Compatibility			
Brand	**Model**	**Brand**	**Model**
APPLE	AirPods 4	BASEUS	Baseus Bowie M3s
APPLE	AirPods 3	BASEUS	Beats Solo Buds
APPLE	AirPods Pro	BASEUS	Baseus Bowie E3
HUAWEI	Freelace active edition	JBL	JBL TUME BUDS 2
HUAWEI	FreeBuds Pro3	JBL	JBL T280TWS X3
HUAWEI	FreeBuds SE3	VIVO	vivo TWS 3e
HUAWEI	FreeBuds 5	VIVO	vivo TWS 3 Pro
HUAWEI	FreeBuds SE2	EDIFIER	EDIFIER X5 Pro
HUAWEI	FreeClip	EDIFIER	EDIFIER XS3
HONOR	TlinLab S7	EDIFIER	TO-U3
REDMI	Redmi Buds 4	PHILIPS	Philips TAT1199
REDMI	Redmi Buds 6 LITE	UGREEN	UGREEN HiTUne 5
REDMI	Redmi Buds 5 Pro	FANBIYA MINI13X	MINI
MIIIW	MIIIW-10	Linklike	OW AIR
OPPO	Enco Air4 Pro	Linklike	HALO
NONSTER	N-Lite 209	WEKOME	Beluga S7
SENNHEISER	ACCENTUM Open	SOAIY	TR6
SENNHEISER	MOMENTUM TW2	iKF	Air
SAMSUNG	Galaxy Buds FE	BEATS	Flex

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Important Hint

● Please read this product manual carefully.

● Keep this product manual. Always include this product manual when passing the products on to third parties.

● Heed all warnings and follow all instructions in this product manual.

⚠️ Warning: Do not place the product near any corrosive chemicals. Corrosion may cause the product to malfunction.

● Only use a microfiber or dry cloth to clean the product.

● Operate carefully - dropping or hitting the product may cause damage.

● Keep all liquids away from the product. Liquids entering the product can short-circuit the electronics or damage the mechanics.

● Store the product in a dry, clean, dust-free environment.

● Please contact authorized maintenance personnel when maintenance is needed. There are precise electronic circuits in this product. Failure caused by unauthorized disassembly is not covered by our warranty, but users can pay for maintenance.

● This product has been certified by CE, WEEE, UKCA, RCM, VN MMIC、 KCC、 JP MIC、 NBTC、 CN ROHS and NCC, etc. Please adhere to the operation standards. The warranty does not cover repairs arising out of the misuse of the product,although you may request such repairs on a chargeable basis.

● The instructions and information in this manual are based on thorough, controlled company testing procedures. Further notice will not be given if the design and specifications change.

● DEITY AA batteries are disposable lithium iron non-rechargeable batteries, please do not charge them.

Disclaimer

Before using this product, please read the product manual to ensure correct use under the complete understanding. After reading, please keep the product manual properly for future reference. In case of not operating this product correctly, it may seriously harm yourself or others, or result in product damage and property loss. When using this product, it shall be deemed that you have understood, recognized and accepted all clauses and contents of this document. The user commits to be responsible for their own behaviors and all consequences thereof. DEITY shall not be liable for any loss due to the user who does not use this product in accordance with the product manual.

Under the laws and regulations, our company holds the final explanation right of this document and all related documents of this product. No prior notice will be given for any update, revision or termination.

Please visit the official DEITY website for the latest product information.