

THEOS DLTX

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 microphone system DEITY Microphones, and describes its external dimensions, characteristics, technical requirements and precautions.


THEOS Digital Wireless is a wireless microphone system specially designed for film and television recording and shooting.

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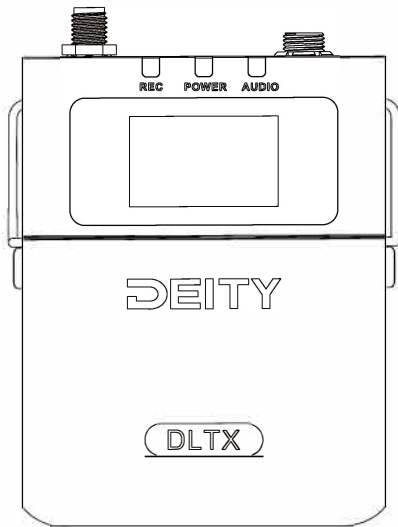
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Important Tips

- 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, RoHS, UKCA, KC 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.

List Of Articles

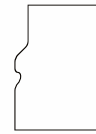
Package includes the following items:



DLTX (1 pc)



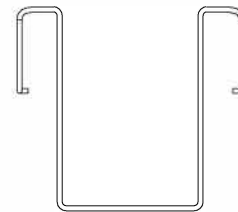
DEITY AA Battery (1 pc)



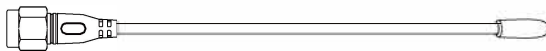
Micro SD Card (1 pc)



USB-C To USB-A Firmware
Update Adapter (1 pc)



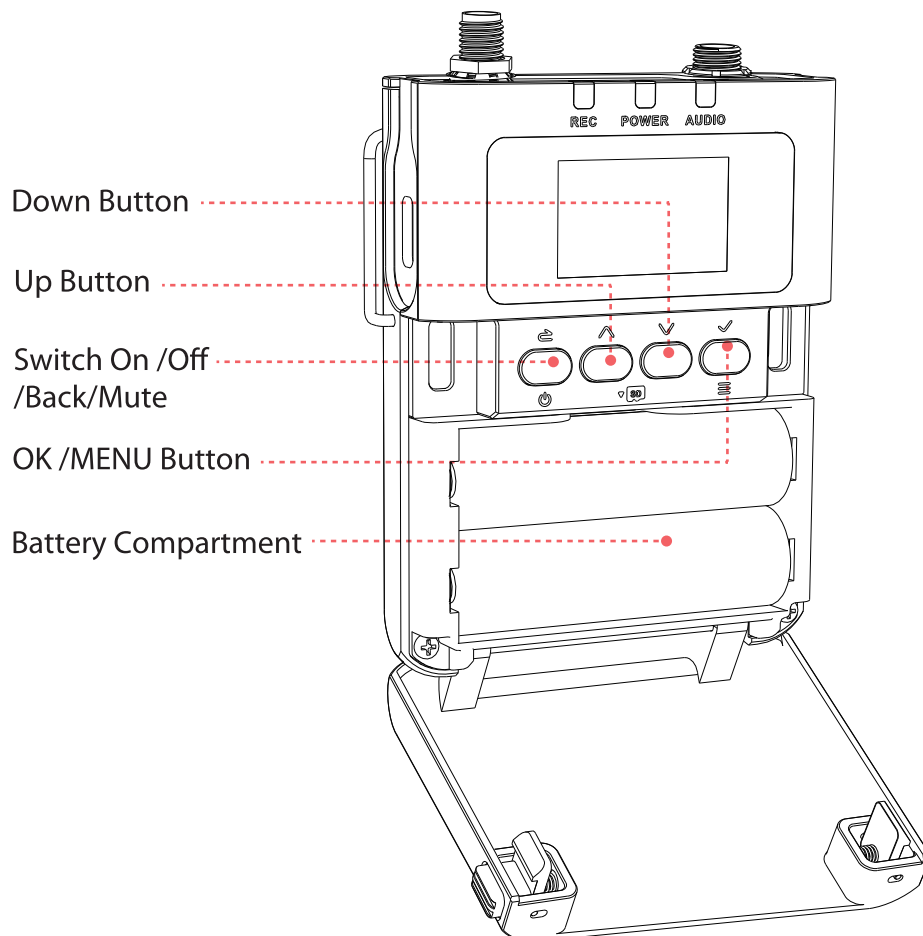
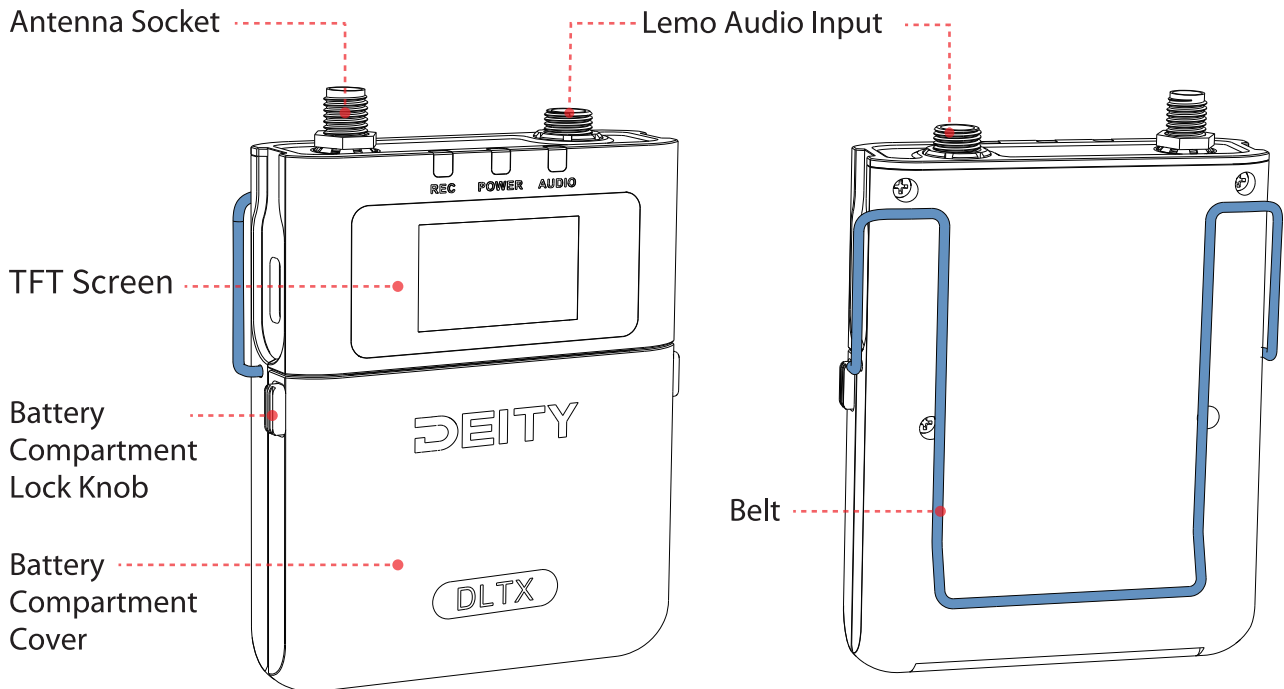
Belt Clip (1 pc)



SMA Antenna (UHF-TX) (1 pc)

Introduction

DLTX



Installations And Use

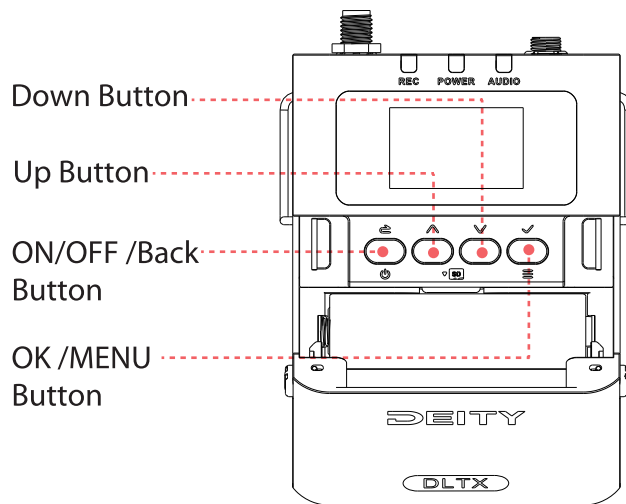
DLTX Function Operations

Button Functions

On/OFF/Back Button: long press to turn the DLTX 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 /Down Button: The Up and Down buttons are used to select various options and adjust values in the setup screens. long press UP bottom to enter the recording interface. Long press the Down button to enter timecode setting interface.

OK /MENU Button: This button is used to enter the menu and select highlighted items or enter menu interface.



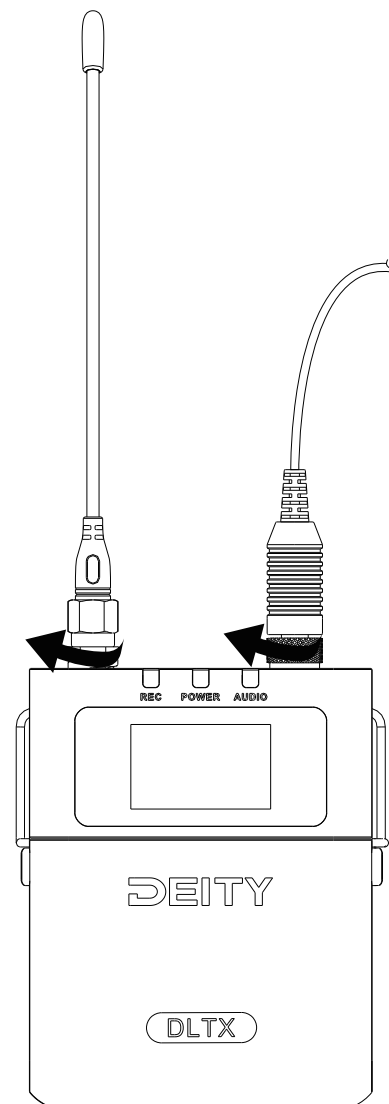
Antenna Installation

Rotate and install the matching antenna on the antenna socket on the upper part of DLTX, and then tighten and fix it to complete the installation of the antenna.

The antenna of DLTX is a whip antenna with SMA interface.

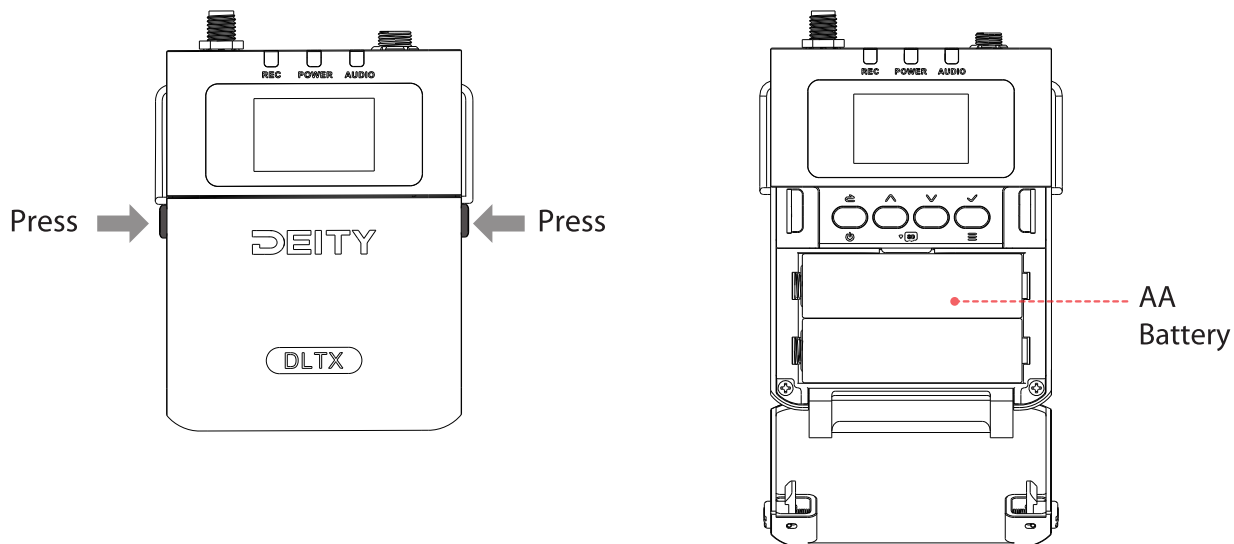
Lavalier Microphone Installation

DLTX has a locking Lemo connection. Simply clip the Lavalier microphone onto your clothes and screw it into the DLTX TRS microphone input.



Battery Installation

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

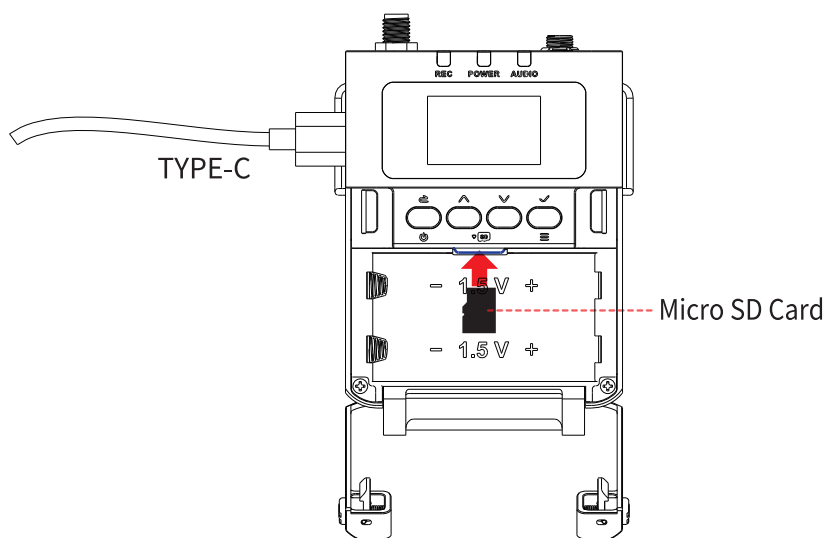


Insert-and-replace Micro SD Card

The micro SD card need to be located at the upper part of the battery compartment of DLTX. Open the battery compartment cover and directly insert the micro SD card into the card slot before install the AA battery. If the battery has been installed, it is needed to remove the battery.

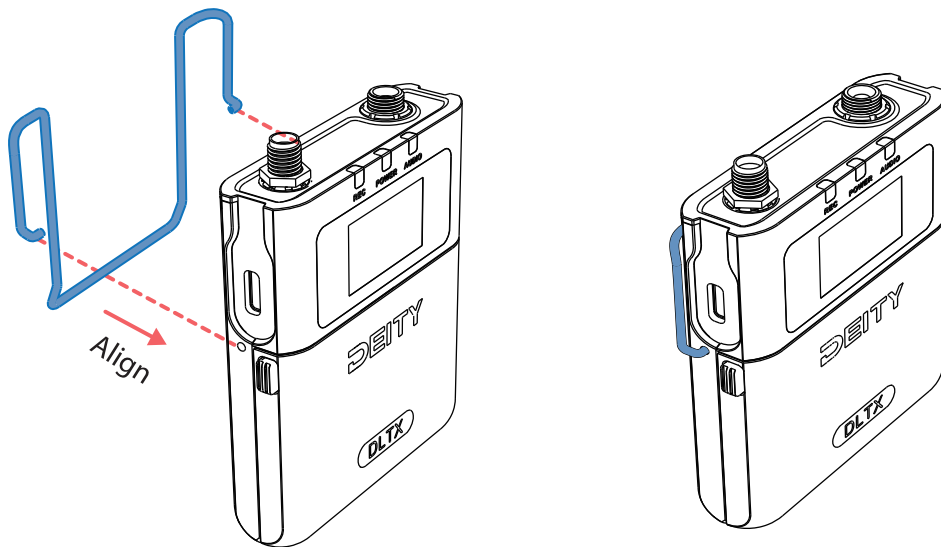
Read The Audio Files

You can power on the DLTX by using included USB-C to USB-C cable connected to a DC adapter (not included). If you want read and download the audio file from micro SD card through USB-C port, you need to enter to come to main interface and enter "SYSTEM" to select the READER model .



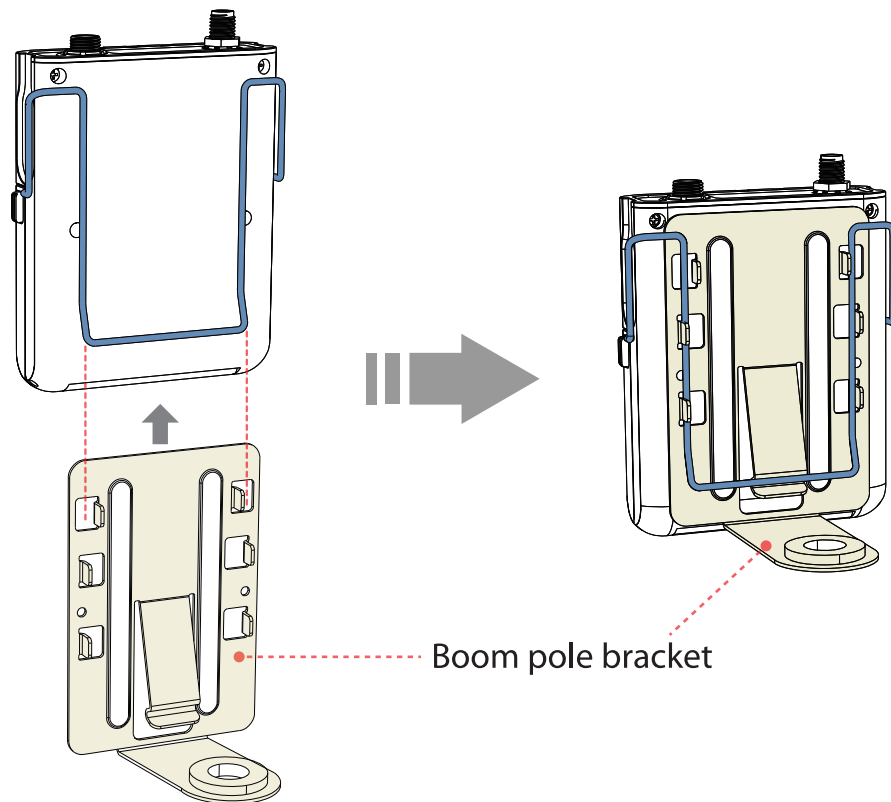
Installation Of Belt

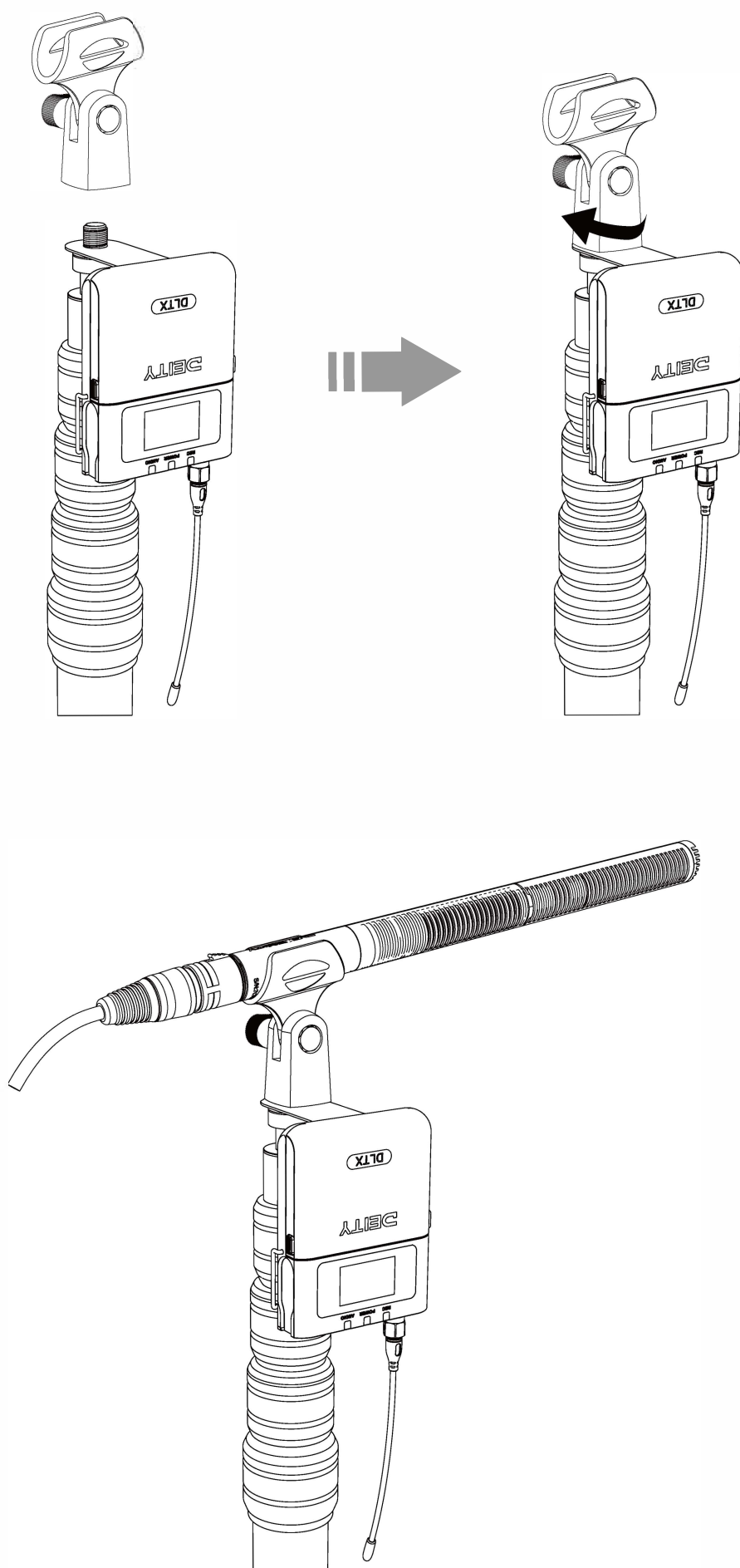
Insert belt into the installation holes on both sides of the DLTx.



Installation of Boom Pole Bracket

Mount the DLTx onto the boom pole bracket, secure it to the top of the boom pole, and then lock the shotgun microphone mount onto the top of the boom pole to securely attach the boom pole assembly to the pole.



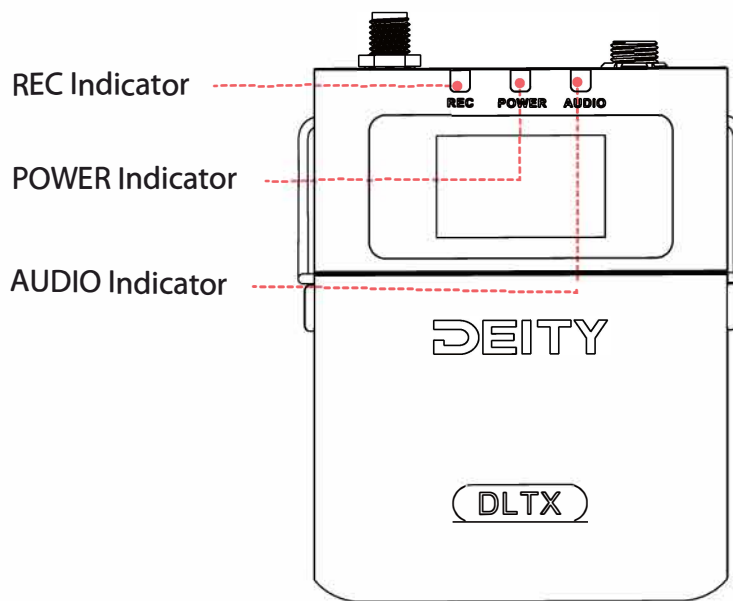


Definitions Of LED Indicator

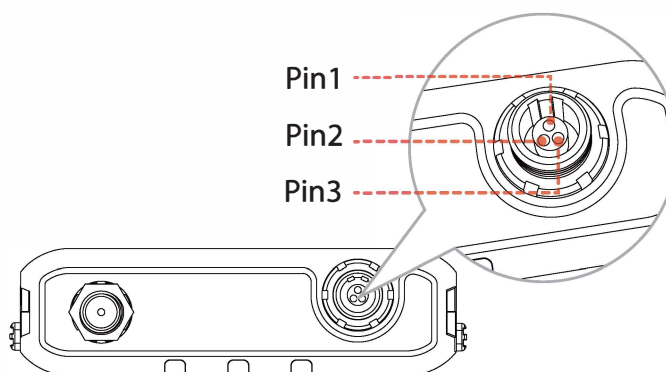
(REC) Led Indicator: When recording, the REC led stays red.

(POWER) Led Indicator: The power led glows green when the battery is good. The color changes to red when there is about 30 minutes of operation left.

(AUDIO) Volume Indicator: Display the brightness and color of the indicator light according to the current volume level. The light color corresponds to the volume value of the screen level meter. When the volume is -40dB~-10dB, it displays a green light. When the volume is -10~0dB, it displays a red light. When the microphone is set to mute, the red light flashes slowly.



Lemo Interface Definition:



Mic SV: Pin 1: Shield GND

Pin 2: NC

Pin 3: Red Signal +

LINE: Pin 1: Shield GND

Pin 2: NC

Pin 3: Red Signal +

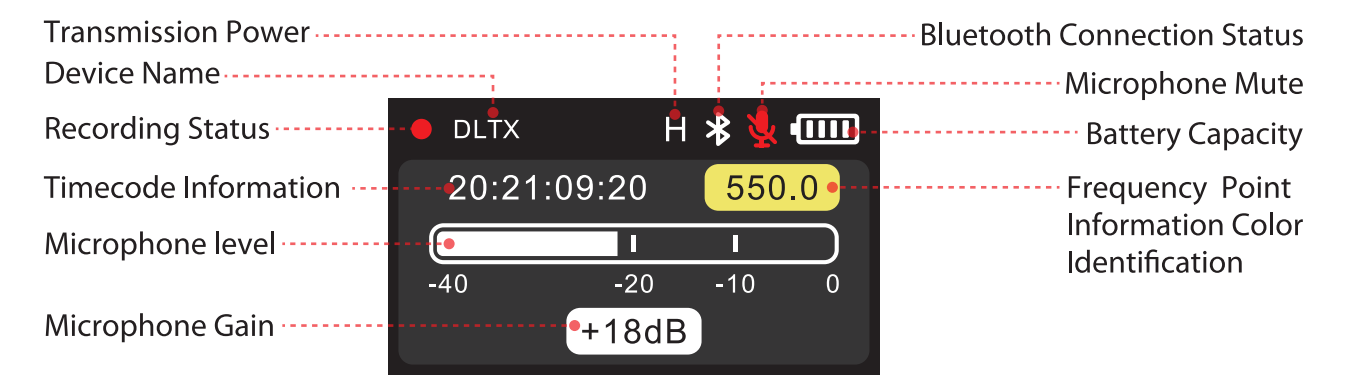
Mic 48V: Pin 1: Red Signal +

Pin 2: White Signal -

Pin 3: Shield + Metal Shell GND;

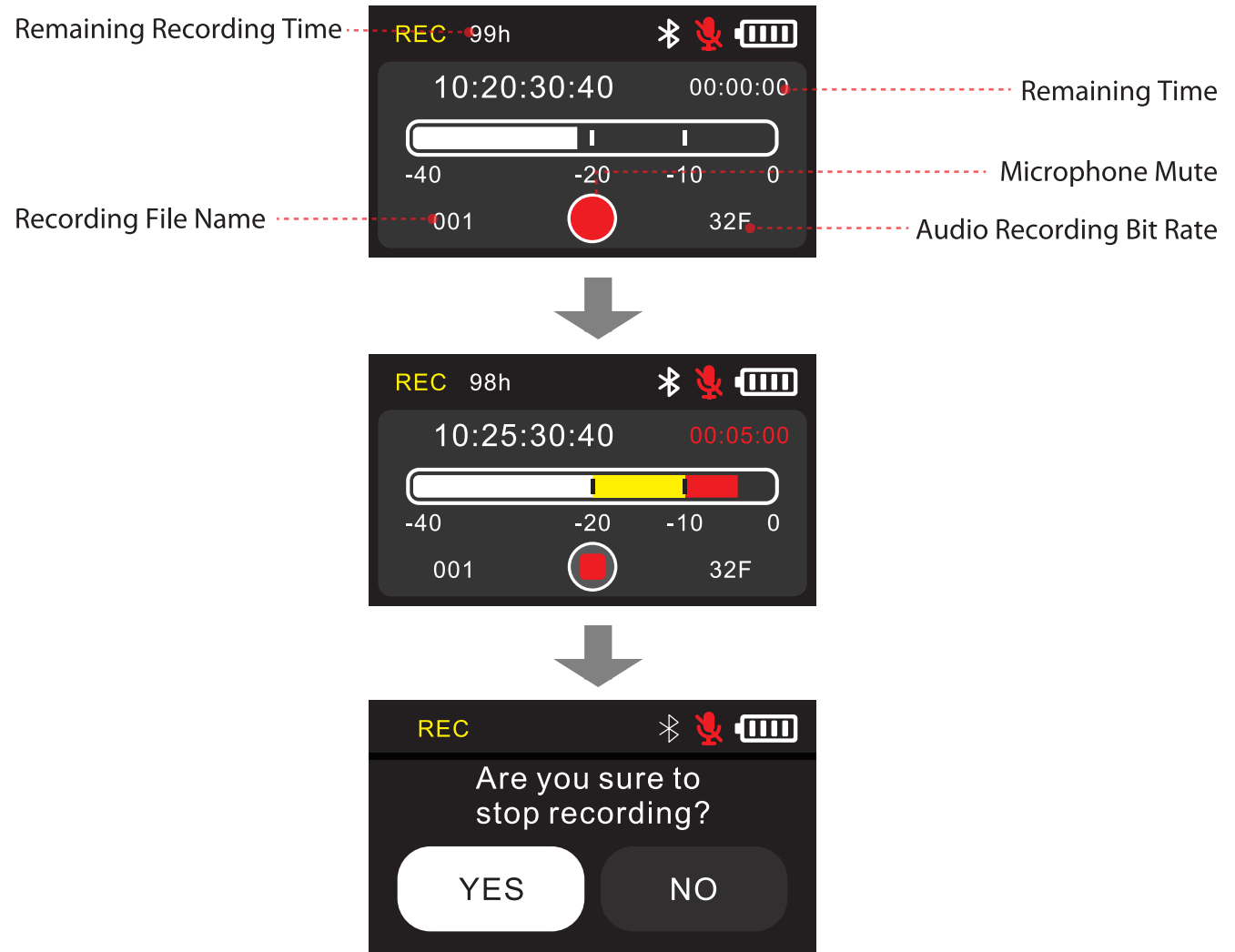
DLTX Interface Function Operation

DLTX Main Screen Interface



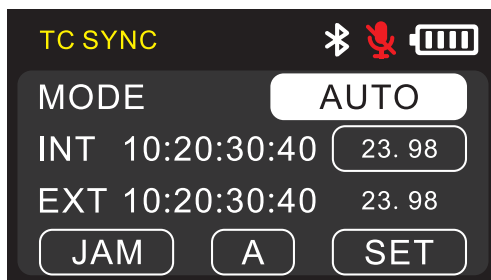
Recording

Long press the "up arrow key" to enter the recording interface. Click the OK button to start recording audio; Click the OK button in the recording state to jump to the prompt to confirm the end of the recording, click OK to end the recording.



Timecode setting

Long press “Down button” to enter the timecode interface, and “EXT” displays external timecode data when connecting external timecode device.



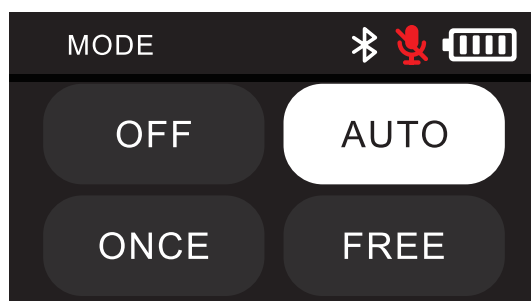
Under the MODE option, you can set the timecode mode, and you can choose “OFF”, “AUTO”, “ONCE” and “FREE” modes.

OFF: timecode is off;

AUTO: the default setting, which automatically recognizes the wired/wireless timecode for synchronization;

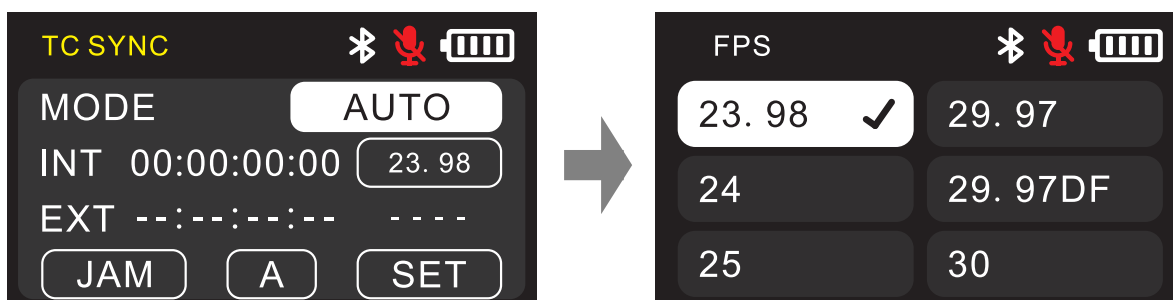
ONCE: automatically synchronize the timecode information once and then lock it. After locking, the timecode will not be automatically synchronized again, and the lock will be released by switching modes;

FREE: the time information set by the current device is timecode, which does not support restart timecode and does not accept external timecode signals.



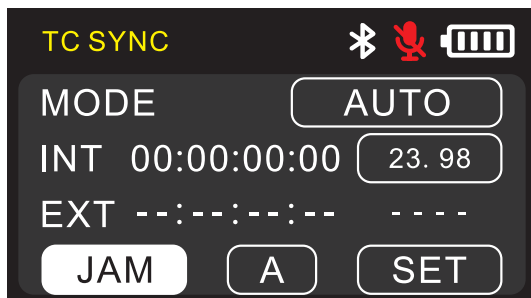
Timecode frame rate setting

The frame rate of timecode recording, you can set the frame rate as 23.98,24,25,29.97,29.97DF,30 as required. DF stands for dropped frame. The default frame rate of the system is 25, so it is suggested to set an appropriate frame rate in advance.



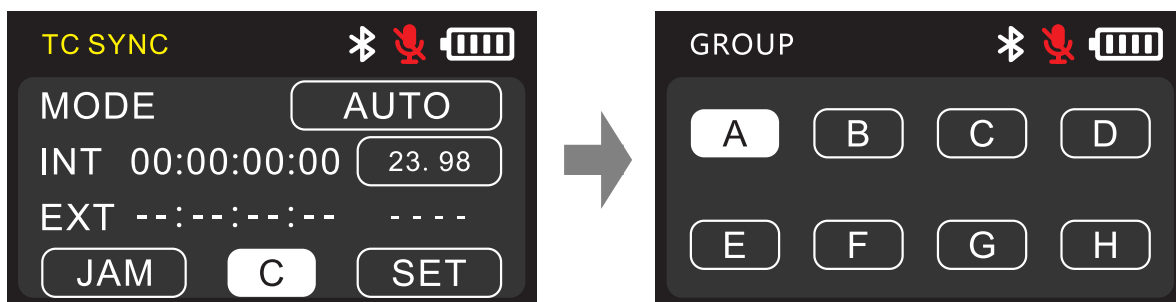
JAM synchronization

If you don't have a DEITY wireless timecode device around you, you need to synchronize it by cable. In Auto or Jam mode, the device will automatically identify and synchronize the timecode signal of the 3.5mm input port; in Free mode or synchronized JMD mode, the system can recognize external signals.



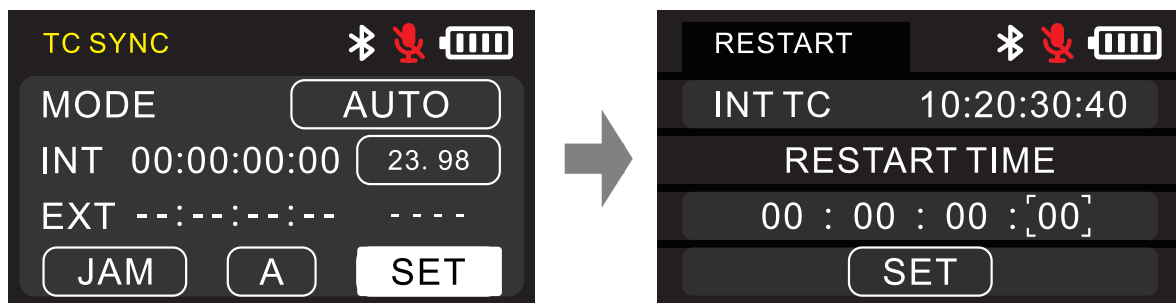
Timecode channel setting

In order to facilitate your DEITY timecode management, we provide A-H timecode synchronization group, and only devices in the same group can synchronize, except bluetooth operation synchronization.



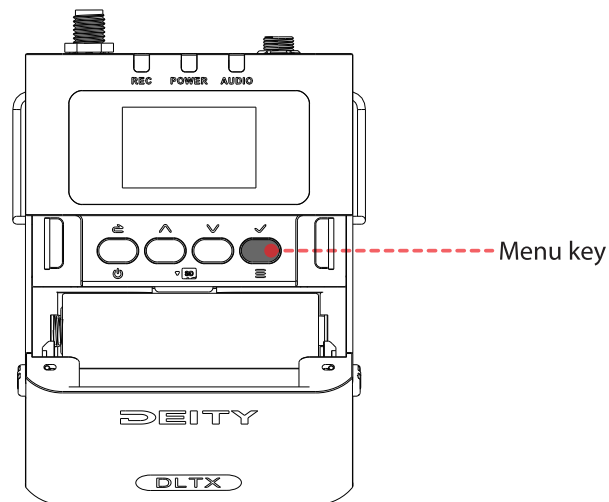
Timecode data manual adjustment

Select SET to manually customize the starting timecode and start running.



Menu

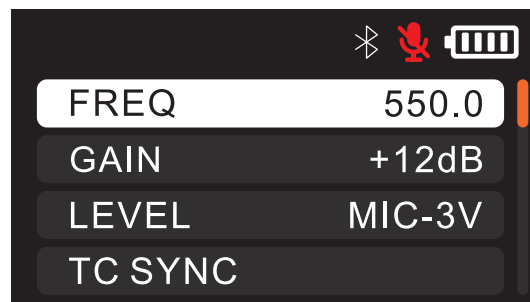
Press “Menu key” to confirm.



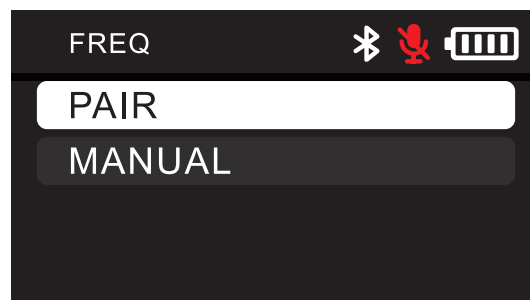
MENU:

FREQ

FREQ information can be manually set through FREQ frequency point setting.

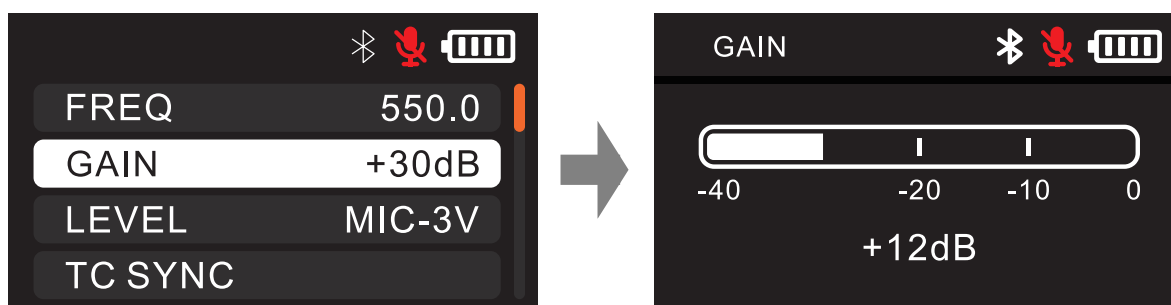


PAIR: When DLTx enters “PAIR”, D2RX also enters “PAIR” pairing mode and the device shall pair.



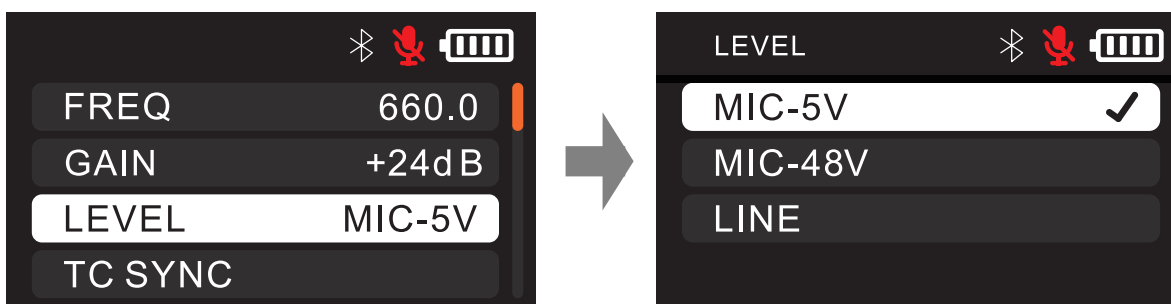
GAIN

The gain value of microphone input can be adjusted, which can be increased by 30dB at most.



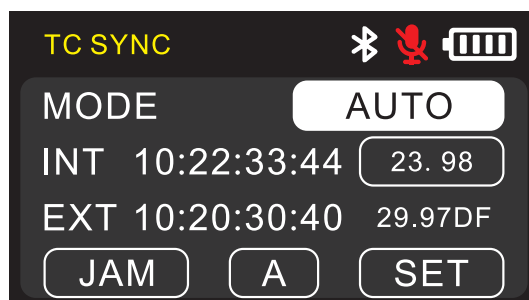
LEVEL

This mode can manually switch the driving voltage of the microphone. There are two optional states, and the power supply voltage of the microphone can be selected according to the type you need.



TC SYNC

Set the timecode and operation mode. Refer to page 15.



REC MODE

In this mode, you can adjust the recording parameters and you can set the bitrate of the built-in recording of the memory card: 24-bit and 32-bit float recording.

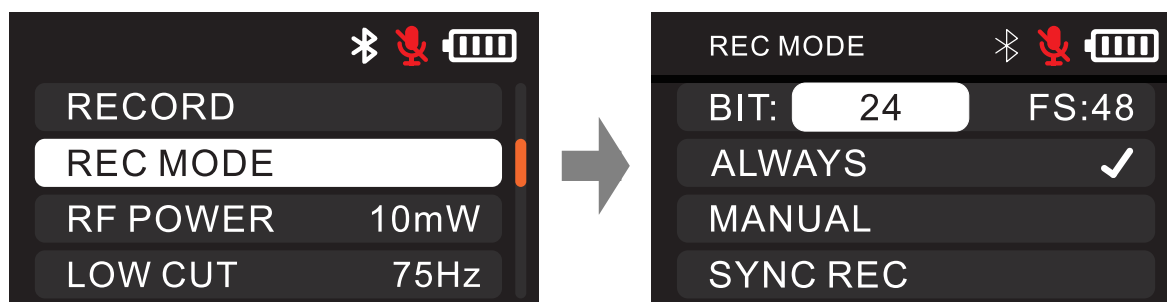
In this mode, you can also select the default recording status:

Select ALWAYS to start recording automatically after turning on, stop recording and save the recording file automatically after turning off;

Select MANUAL to manually switch the recording status, and the default status is MANUAL.

(When the region is the united states, the RF function and the recording function cannot be used at the same time.)

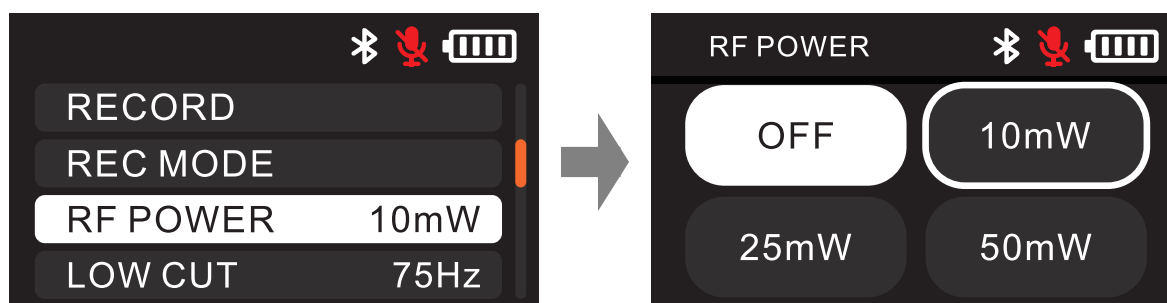
Select the SYNC REC option to start recording automatically after manual recording + time code synchronization; When the SYNC REC option is turned off, recording will not automatically start after synchronizing the time code; If the device is in the recording state when synchronizing the time code, you need to stop recording first and then adjust the time the code is synchronized, and the recording is not automatically started after synchronization.



RF POWER

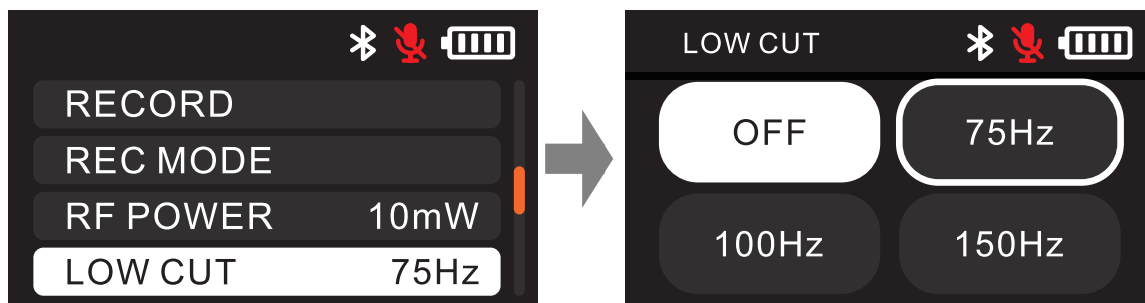
In this mode, you can choose the power of RF transmission, and the RF power corresponding to the legal frequency band that meets the requirements will be selected as needed.

(When the region is the United States, the RF function and the recording function cannot be performed at the same time.)



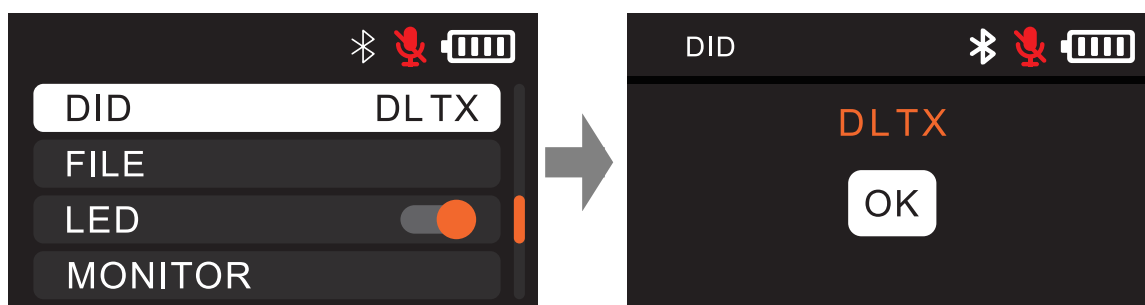
LOW CUT

In this mode, you can set the low cut value according to your needs, and there are four low cut value options to choose from: OFF, 75Hz, 100Hz and 150Hz.



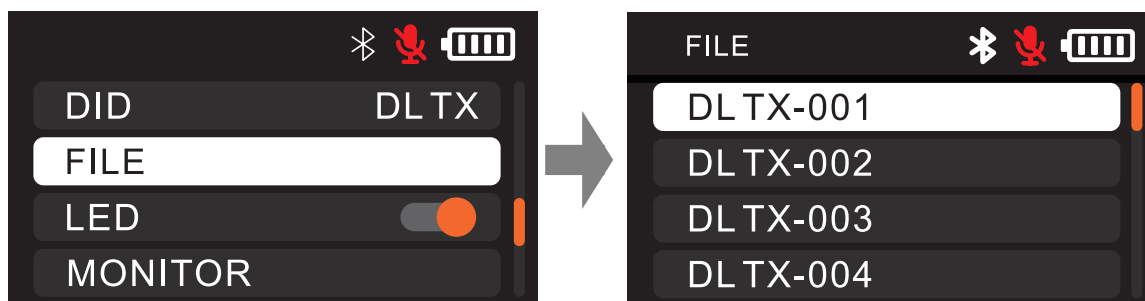
DID

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 keys, and click OK key to save the selection or click back key to restore the previous settings.



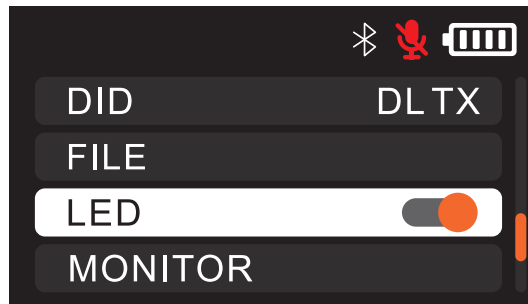
FILE

In this mode, you can view and play back the material files in the recording memory card, and choose the corresponding file playback by pressing the up and down keys, and only files recorded on the current can be viewed.



LED

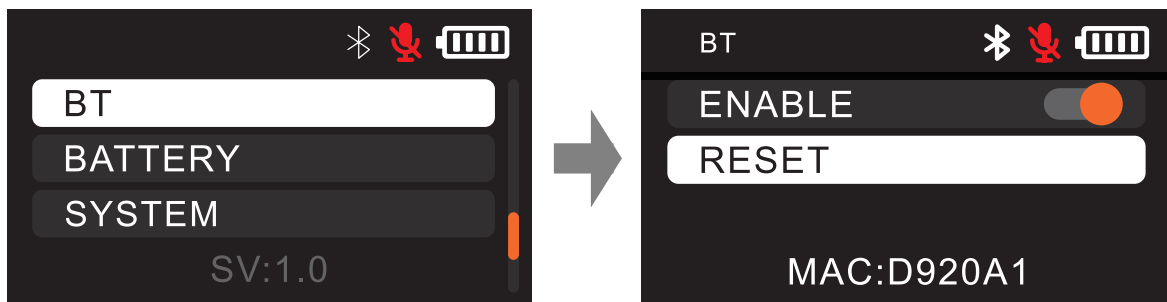
In this mode, users can choose to turn on and off the three LED indicators of the device according to their needs.



BT

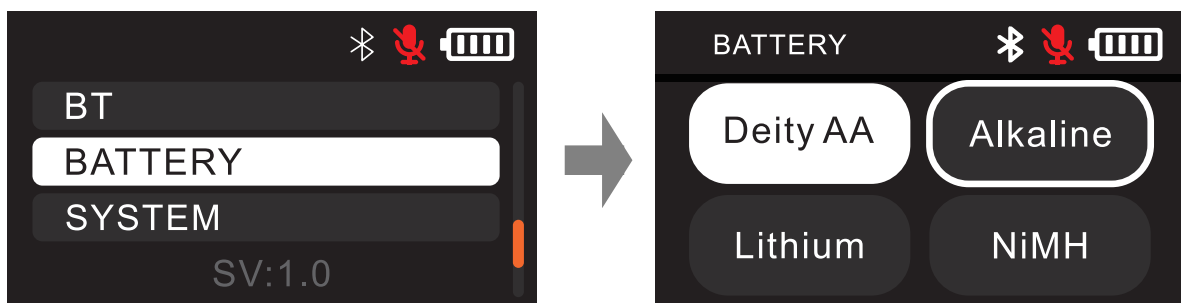
In this mode, you can turn the bluetooth function on/off. Bluetooth is turned on by default. Select "RESET" and click "YES" to reset bluetooth. When the "SUCCESS" message appears, it means that the reset is complete.

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.

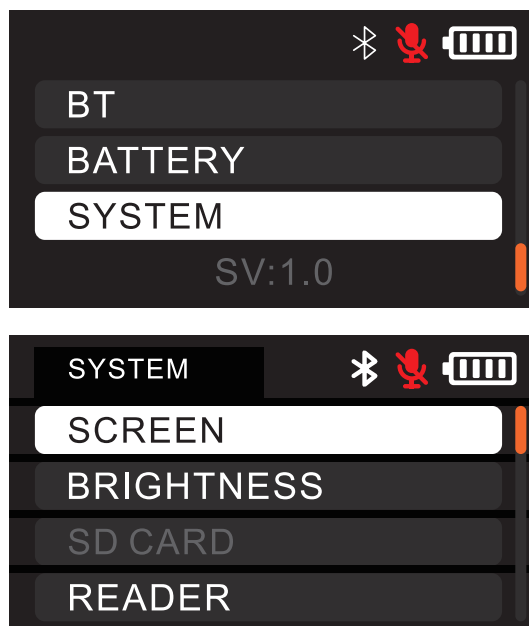


BATTERY

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. 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:1.2V Ni-MH rechargeable battery.

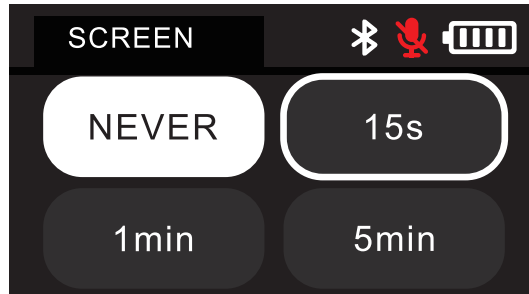


SYSTEM



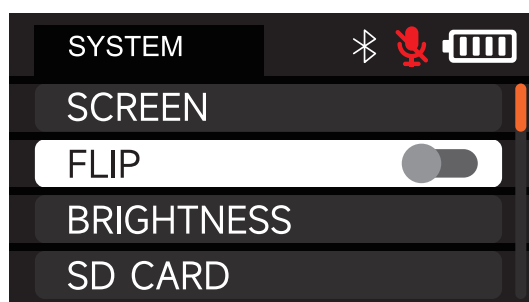
SCREEN

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.



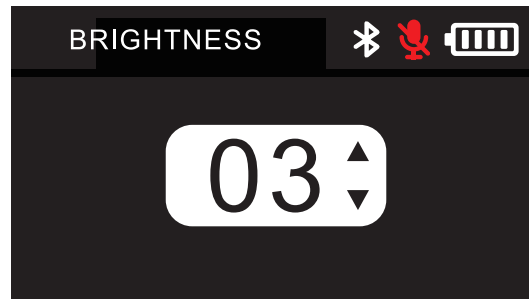
FLIP

In this mode, you can invert the display of the screen interface, making it easy to read the current status information and control operations when the transmitter is used upside down.



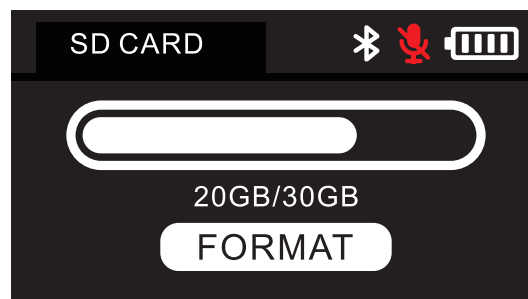
Brightness

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.

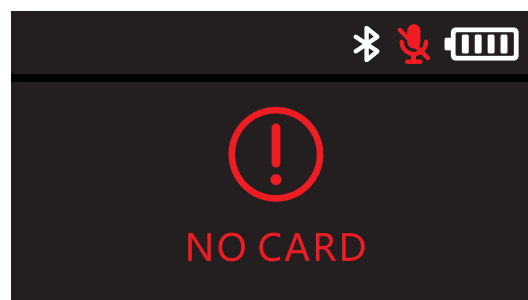


SD CARD

In this mode, you can see the storage space occupied by the memory card. Select “FORMAT” and click “YES” to format the memory card. When the “SUCCESS” message appears, the formatting is completed. (The memory card is formatted and then used when it enters the device, which can get higher recording stability.)

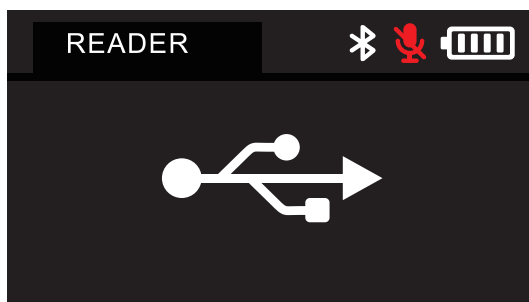


In this mode, you can see the storage space occupied by the memory card. Select “FORMAT” and click “YES” to format the memory card. When the “SUCCESS” message appears, the formatting is completed.



READER

In this mode, you can connect the computer through the data cable to transfer the recorded files.



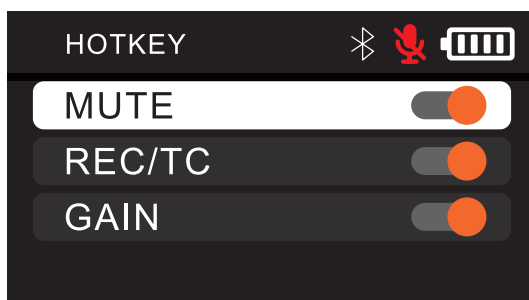
HOTKEY

This mode can choose whether to turn on the function of shortcut keys in the main interface.

Turn on MUTE mode to turn on mute by short pressing the power key in the main interface.

When the REC/TC mode is turned on, you can enter the recording or timecode interface by long pressing the “up/down direction key” for a long time, while when it is turned off, you cannot use the shortcut key function.

Turn on the GAIN mode to quickly adjust the gain level of the microphone.



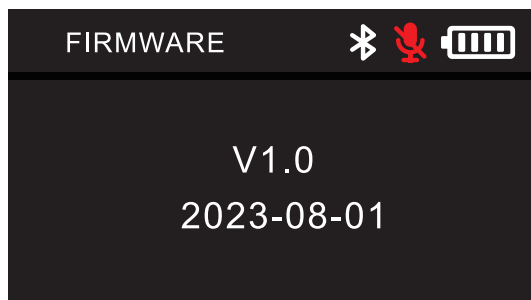
SYS RESET

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.



FIRMWARE

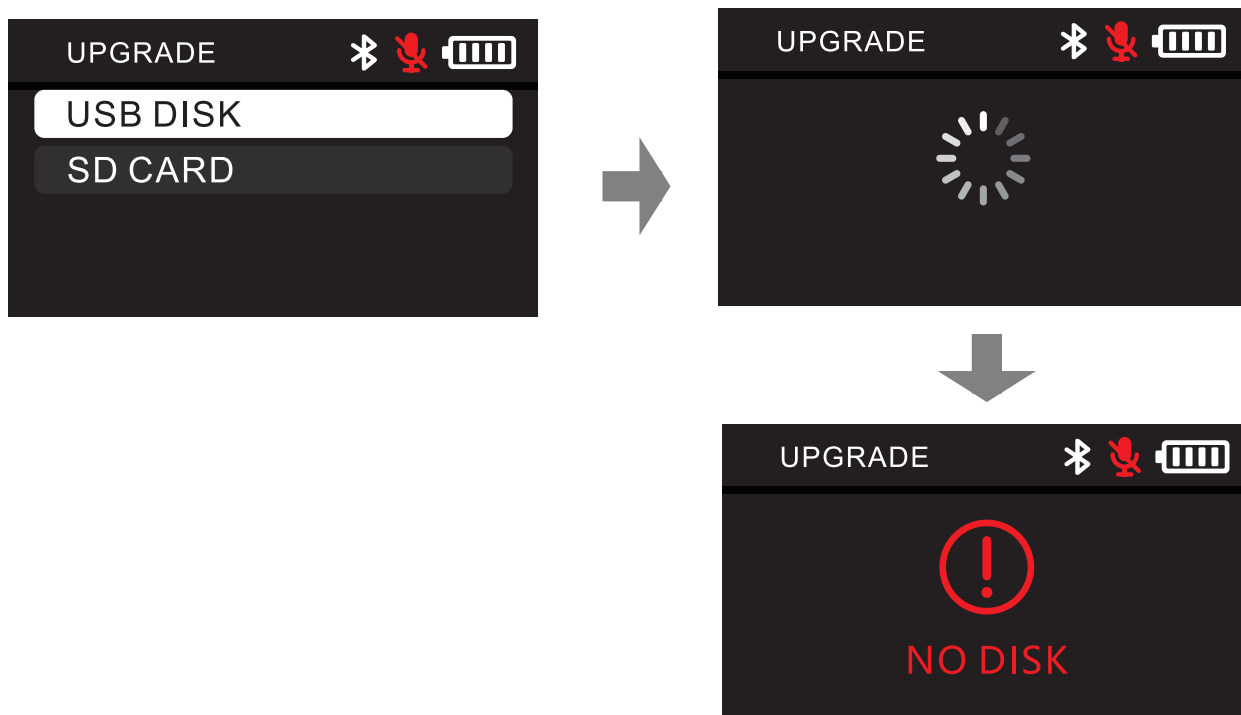
This mode can view the version information of the current device and the date information when the version is updated.



UPGRADE

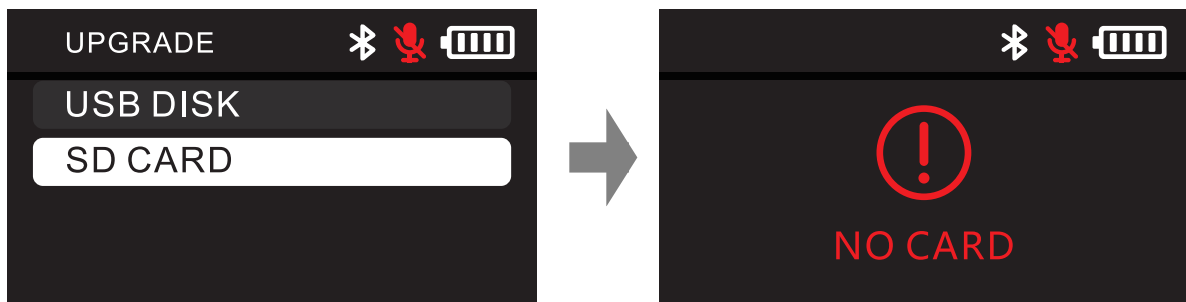
This product can be upgraded by USB STICK or SD card, and supports exFat/FAT32 partition format U-Disk. When upgrading, please load the latest firmware in official website and put it in the root directory of U-Disk or SD card. You can use “USB-C to USB-A firmware upgrade adapter” to connect U-Disk to 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 SD card or U-Disk into the device, or the device can't read the internal upgrade file, “NO DISK” will be prompted. Please check whether the SD card or U-Disk is correctly inserted into the device, or whether the upgrade file is complete or placed in the corresponding position as required.



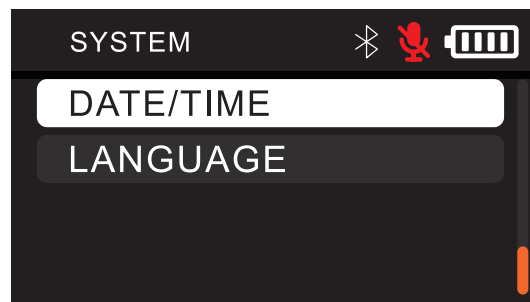
Insert the SD card into the device, select the “UPGRADE” option in the menu, and update the firmware according to the screen prompts. After the firmware update is completed, the device will automatically restart, and the firmware version will display the latest version number. You can enter the “Firmware” option in the system settings menu to inquire about the firmware version information of the current device.

If you don’t insert the SD card into the device, or the device can’t read the upgrade file in the SD card, “NO CARD” will be prompted. Please check whether the SD card is correctly inserted into the device, or whether the upgrade file in the SD card is complete or placed in the corresponding position as required.

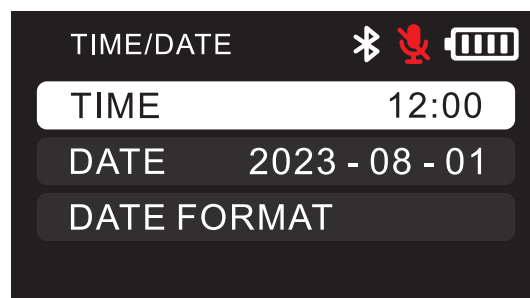


DATE/TIME

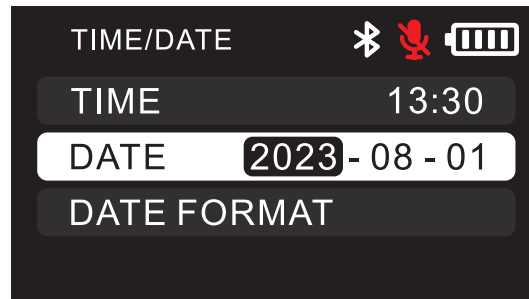
Enter the mode to set the used date and time.



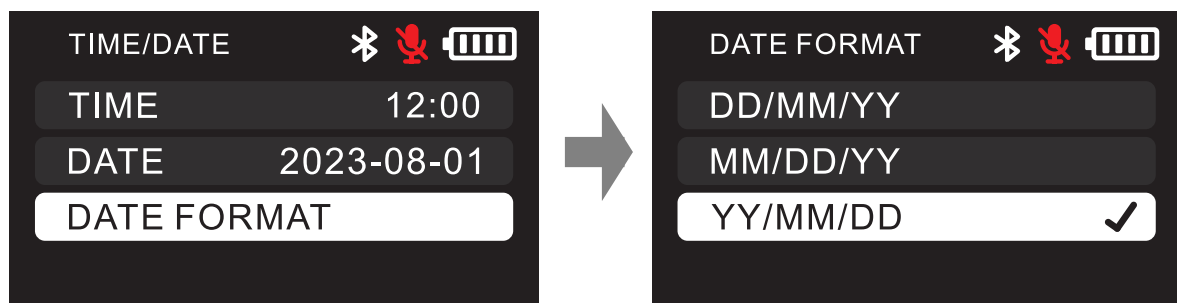
You can customize the current time information for the device. Click OK to enter the time adjustment. Press the up and down keys to adjust the time number. After the adjustment is completed, click OK to save the set time information, and click Back to return to the time information set last time or initially.



DATE setting can customize the current date information for the device. Click OK to enter the date adjustment. Press the up and down keys to adjust the date number. After the adjustment is completed, click OK to save the set date information, and click Back to return to the date information set last time or initially.



DATE FORMAT can be set, and in the "DATE/TIME" setting, you can see a variety of date formats to choose from. You can choose a common date format: "DD/MM/YY", "MM/DD/YY" or "YY/MM/DD". You can select the corresponding date/time format by pressing the up and down keys and click OK to save the selected settings. The date and time format shall not be saved by clicking Back.



DLTX Specifications And Parameters

DLTX Transmit	
RF Modulation	Proprietary Digital RF Modulation
RF Freq Ranges	According to different regions, the legitimate frequency bands in line with local conditions are allocated
RF Frequency Step	100kHz
Minimum Frequency Spacing	700kHz
Antenna Connector	50 Ω SMA
Power Output	10 / 20 / 25/ 50mW/100mW – Software Selectable (varies by regulation)
Transmitter Audio	
Dynamic Range	123dB
Distortion	<0.5%
Frequency Response	20~20kHz
Low Cut	0FF/75Hz/100Hz/150Hz
Mic Power	MIC-5V、MIC-48V、LINE
Mic Connector	Lemo 3Pin
Input Gain	0~+30dBu
ADC Bit-Depth	2 x 24 bit
ADC Sampling-Rate	48kHz

Continued (DLTX specifications and parameters):

Timecode Reader / Generator	
Clock Accuracy	0.25 PPM (1 Frame Out in 48 Hours)
Timecode Type	LTC (SMPTE)
Timecode Frame-Rates	23.98, 24, 25, 29.97, 29.97DF, 30, 30DF
Internal Recording	
Media	MicroSD Card (Flash Memory)
File Format	.wav
Sample Rate	48kHz
Record Format	24/32bit float
Power	
Battery Life	Up to 12+ Hours with 2 Lithium AA
Physical	
Dimensions (H x W x D)	88.45x 65x 17.8 mm
Weight	Without battery and antenna: 88g Without battery and with antenna: 93g With battery and antenna: 125g
Operating Temperature	-20°C ~ 45°C (°F~°F)
Storage and transportation temperature	-30°C ~ +60°C (86°F ~ +140°F)

The above data are all measured by DEITY 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.

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.

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