

PR4说明书-英文初版

DEITY Recorder Manual

PR4

User Guide

English

Preface

Thank you for using this product. To use this product better and more safely, please read the user manual carefully.

Scope of Application

This user guide is suitable for the Shenzhen Aputure Imaging Industries Co., Ltd. (hereinafter referred to as Aputure) PR4 recorder. It describes its appearance dimensions, features, technical requirements, and precautions.

The PR4 recorder is equipped with 4-channel input, 6-track recording, and 2-channel output, allowing for flexible and convenient routing operations. It supports high-quality 192kHz/32Bit Float recording, AES digital signal input, and can be used as an audio interface. It features built-in wireless timecode and can be used with the Sidus Audio™ application to achieve centralized control of Deity ecosystem devices.

The PR-4 adopts a portable design concept overall, providing users with a more convenient operating experience to meet the needs of carrying it outdoors. It is suitable for various professional audio recording scenarios such as film and television, interviews, outdoor recording, and field recording.

Terminology

• **Channel:** Refers to the input/output path of an audio signal, representing the physical port where the signal enters or leaves the device.

• **Track:** Refers to the carrier used for recording, editing, and playback of audio. After a signal enters from a channel, it can be routed to a specified single track or mix track.

• **Routing:** Refers to the transmission path and distribution method of the signal.

• **Mix:** Combining multiple track signals.

• **Fader:** A physical control device on a mixer, which can be a knob-type or slide-type potentiometer, used to adjust the level of each channel signal sent to the bus. Pushing down attenuates the signal, pushing up amplifies the signal. Most faders provide a greater range of attenuation than gain and have a "0 dB gain" position where the level set by the input is sent directly to the bus.

• **Pre-fader:** Pre-fader recording means the recording signal is captured before fader adjustment, so the recording is not affected by fader volume changes. Individual tracks are usually recorded pre-fader so that any level changes from the fader do not affect the recorded signal.

• **Post-fader:** Post-fader recording means the recording signal is captured after fader adjustment, so the recording is affected by fader volume changes.

• **Pan:** Used to adjust the position of the sound between the left and right channels in stereo. When centered, the signal is equally distributed to both left and right channels; when panned left or right, the signal favors the corresponding channel.

• **AES3:** A standard for exchanging digital audio signals between professional audio equipment. AES3 signals can transmit two channels of PCM audio via balanced 110-ohm connections. The most common connection method for AES3 is using XLR-3 cables.

• **AES42:** A digital interface protocol for microphones and their inputs.

Microphones compliant with this standard output digital audio directly via XLR connectors instead of analog signals. AES42 microphones require power.

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1. Package Contents

PR4 Host Unit x1

Detty Accessory Drawing QR Code Image x1

2. Product Panel Views

2.1 Top

2.1 顶面



1. 1/4"1/4" Threaded Hole: Can be used for installing microphone mounts, etc.
2. Power Switch: When powered off, toggle to ON to power on; while powered on, if in recording or playback state, you must exit recording or playback before executing OFF to power down.

2.2 Front



1. Channel Knob Buttons:

- a. Short press a single channel knob button to enter the corresponding input channel (CH1/CH2) settings.

- b. Long press a single channel knob button to switch control between channel gain and fader. After switching, the knob light will change accordingly. Gain – Yellow light; Fader – Blue light.
 - c. Press both channel knob buttons simultaneously to enter the input channel CH3&CH4 settings. The gain and fader for CH3&CH4 can be operated within the channel settings.
2. REC Button: Press this button when stopped to start recording. During recording, long press for 3 seconds to stop recording.
3. Selection Knob Button: Rotate in menu settings to switch lists up and down. Short press in the menu serves as the confirm function. On the main interface, short press to enter the quick interface.
4. Menu/Return Key: When on the main interface, press this key to enter the menu interface; in the menu interface or operation interface, press this key to return to the previous level menu/interface. Triple-click this key on the main interface to lock and unlock the device.
5. MARK Button: Add marker. Press the MARK key during recording or playback to add a marker to the audio. Marker points can be read by TC SYNC software when reading the material.

6. Touch Display Screen

2.3 Left Side



1. USB-C Port:

- a. Power Supply: Default is to supply power to the device; can also charge NP-F550 batteries, supports 12V fast charging. When connected to a communicable device, the charging function is disabled.
- b. File Transfer: Connect to a computer while powered on, and select the USB function as Card Reader in the menu; connect to a computer while powered off, defaults to Card Reader for file transfer. Charging NP-F550 batteries is not supported in this state.
- c. Audio Interface: Connect to a computer while powered on, defaults to being an audio interface, supporting 2 in 2 out (in other states, can switch USB mode via the menu) USB menu. Charging NP-F550 batteries is not supported in this state.
- d. Bluetooth Monitoring: Connect a Bluetooth adapter to the USB port and turn on the Bluetooth headphone function in the menu to enable Bluetooth headphone monitoring.

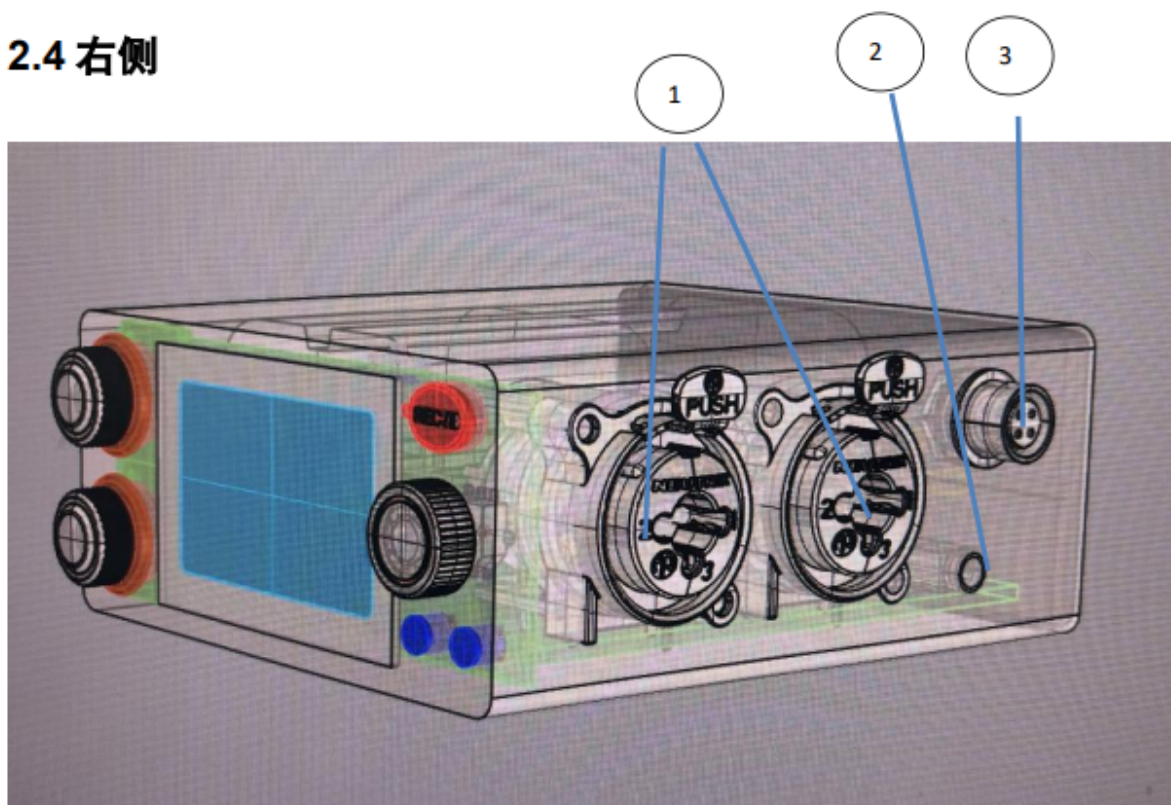
2. OP①②: Analog Output Ports

3. TC I/O: Timecode Input/Output Port

4. Headphone Jack: Wired headphone monitoring output port.

2.4 Right Side

2.4 右侧



1. Balanced Input ① & ②: Input channels 1/2 are compatible with XLR and 6.5mm TRS jacks. Support AES digital input.

XLR (1:GND, 2:HOT, 3:COLD): TRS (Tip:HOT, Ring:COLD, Sleeve:GND)

2. Unbalanced Input ③/④: 3.5mm TRS dual-channel input interface. When the XLR input ①② is set to AES input, the unbalanced input ③④ is disabled. Specific settings details see "Main Menu Description > Input Settings".

3. DC Power Input Port: Hirose-4Pin power input port, supports 12-18V DC input.

2.5 Rear



1

2



3

4

1. Logo LED Light: Can be used as a tally light, brightness and off can be set in the menu.

2. Battery Compartment Cover Release Key.

3. NP-F550 Battery Compartment.

4. SD Memory Card Slot, supports up to 1TB SD card.

2.6 Bottom



1/4"1/4" Threaded Hole: Can be used for fixed installation on tripod mounts, etc.

3. Quick Setup Guide

3.1 Insert SD Card

The PR-4 has a built-in 64G SSD. The external SD card is installed from the rear battery compartment position.

3.2 Install Battery

Install an NP-F550 battery into the rear battery compartment.

Installation picture and orientation

3.3 Connect External Microphone

Connect the microphone to this device.

Microphone

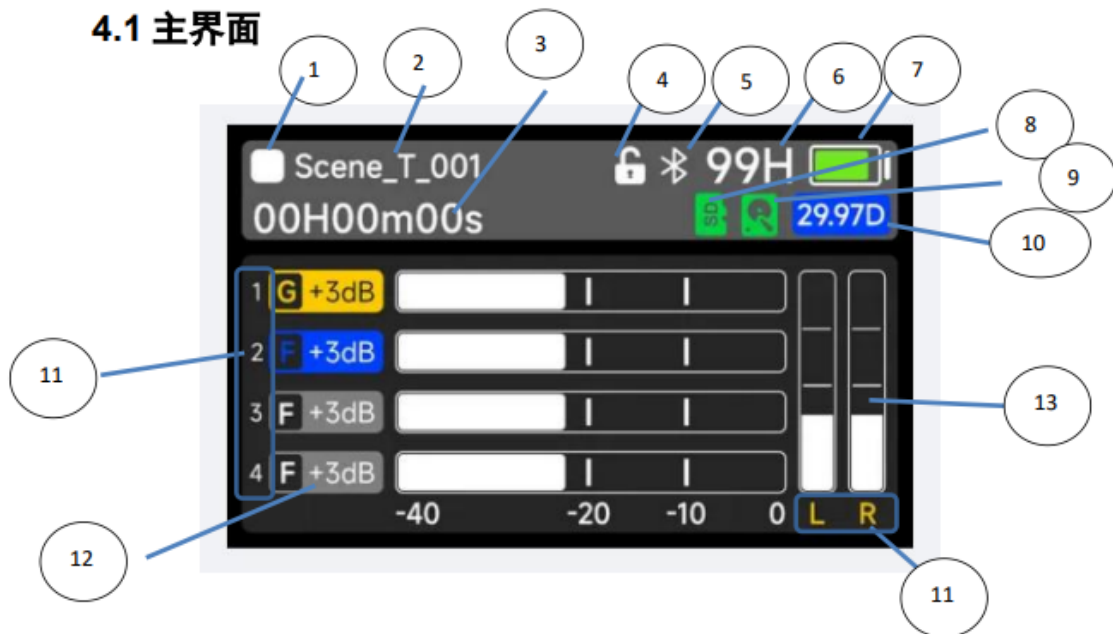
DEITY microphone mount accessories can be used for microphone installation.

Reference picture, microphone changed to deity gun style.

Installation picture and orientation

4. Interface Description

4.1 Main Interface



1. Recording Status Indicator:

Status

Indicator

Stop

(White ■ icon)

Recording

(Red ● icon)

Playback

(Green icon)

Pause

(Green icon)

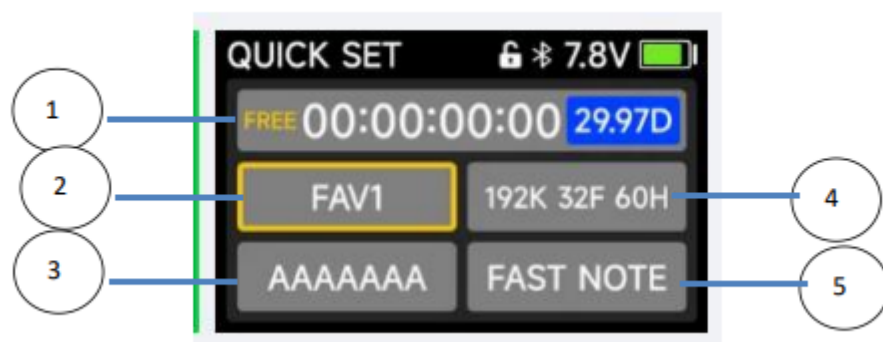
2. Current File Name: Displays the current recording file name during recording, and the current playback file name during playback. The file name can be customized and modified in the menu.

3. Current File Duration: Displayed in hours:minutes:seconds. Shows the current recorded file duration during recording, and the elapsed playback

time of the current file during playback.

4. Settings Lock Status
5. Bluetooth APP Connection Status
6. Battery remaining usage time; when powered externally, displays the supply voltage.
7. Device Power Status
8. External SD Card Status: Green for normal recording, turns yellow when card space is less than 2 hours of recording time, turns red when card space is less than 1 hour of recording time.
9. Built-in SSD Status: Green for normal recording, turns yellow when card space is less than 2 hours of recording time, turns red when card space is less than 1 hour of recording time.
10. Current Timecode Frame Rate and Group
11. Channel Recording Status. Armed recording tracks are red, disarmed are white. For details on arming/disarming recording tracks, see "Main Menu Description > Record Tracks".
12. Current gain or fader status of the channel. Yellow indicates the knob adjustment is in gain control state, blue indicates the knob adjustment is in fader control state. Long press the channel knob to switch between gain and fader control. Use the channel knob to adjust gain and fader values.
13. Input Signal & Mix Track Levels

4.2 Quick Interface

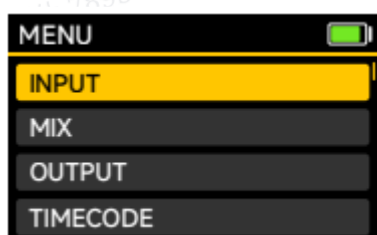


On the main interface, short press the selection knob to enter this interface. This interface displays key items for recording, and you can directly go to the corresponding setting menu interface via knob selection or touch.

Displays the settings for the current recording when recording; displays the settings for the next recording when not recording.

1. Timecode information, can be modified in the "Timecode" menu settings.
2. Monitor Preset, can set headphone output routing in the "Output >> Headphone Monitor" settings. PR4 supports saving two monitor presets. Preset default names are FAV1, FAV2, supporting user-defined modification of presets.
3. Recording File Name: Click to modify the current file name.
4. Recording file sample rate, bit depth, recordable time under current settings. (When both cards are enabled, displays the recordable time of the SD card.)
5. Quick Note: Click to directly select preset quick note information.

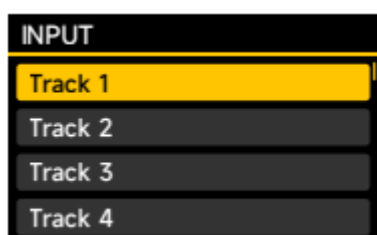
5 Main Menu Description



Press the Menu button on the main interface to enter the main menu interface:

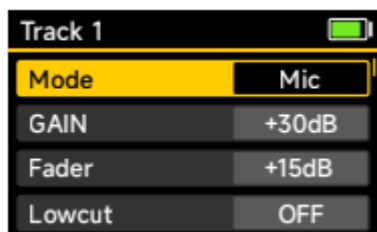
5.1 Input Settings

The Input Settings menu contains relevant settings for input channels. Submenus include: Channel parameter settings, Stereo settings, ISO Mode settings, Pan settings, Phase settings, Delay settings.



5.1.1 Track 1 & Track 2

By default, in analog input mode, Track 1 & Track 2 correspond to the XLR interface's Channel 1 and Channel 2 respectively. Their parameters can be set individually for gain, fader, input mode, low cut, and EQ equalizer.



Gain

Corresponds to the gain setting of the external physical knob, indicating the gain of channel control. The gain range depends on the selected input type.

- Microphone: 0 to +60dB
- 48V: 0 to +60dB
- Line: -20 to +30dB

• AES3: -20 to +40dB

• AES42: 0 to +60dB

Fader

Corresponds to the fader setting of the external physical knob, controlling the volume level of the channel. Its settings affect the left/right mix (mix L/R) and the level of single tracks selected as "Post-fader". Range: Continuously variable from -inf to +20dB.

Mode

Corresponds to input source selection. Choose the mode based on the connected external input: Microphone, 48V, Line Input, Digital AES3 Input, Digital AES42 Input.

- When selected as Microphone, 48V, or Line Input, each XLR corresponds to one input channel—occupying one single track.
 - When selected as Digital Input (AES3, AES42), the PR4 switches entirely to digital input mode. Each XLR corresponds to two input channels—occupying two single tracks. That is, the signal input from Channel 1 is mapped to Track 1 and Track 2, corresponding to AES3-1 and AES3-2, or AES42-1 and AES42-2. At this time, the settings for Tracks 3 and 4 will also switch to digital input accordingly. Furthermore, the physical TRS 3.5mm input interface will be disabled.
-

Low Cut

Low cut is off by default, optional 75Hz, 150Hz low cut. After enabling low cut, audio below the selected frequency will be filtered out. The low-cut filter can

reduce low-frequency noise such as wind, air conditioning, and projectors. Set the cutoff frequency of the low-cut filter to match the noise.

Equalizer Settings

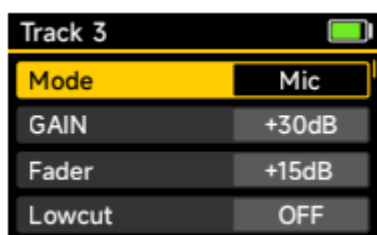
Channel equalizer. Each input channel is equipped with a 3-band parametric equalizer, which can be turned on or off. Default is off.

The equalizer has the function of amplifying and attenuating specific frequency ranges. It can be used to enhance the sound of individual instruments, adjust the balance of wide frequency ranges, and cut specific unwanted frequencies, etc.

The equalizer settings are divided into Low (L), Mid (M), and High (H). The center frequency, gain, and Q value can be set for each band.

- The center frequency of all three bands can be customized.
- Adjustable range for each band's gain: -18 to +18dB.
- Adjustable range for each band's Q value: 1 to 10. A higher Q value means higher sharpness, affecting a narrower band around the set frequency. A lower Q value means lower sharpness, affecting a wider band around the set frequency.

5.1.2 Track 3 & Track 4



By default, in analog input mode, Track 3 & Track 4 correspond to the parameter settings for the 3.5mm TRS input interface. Gain, fader, and EQ equalizer can be set individually. In analog input mode, input mode and low cut are mapped to each other and cannot be set separately.

When the mode of Track 1 or Track 2 is selected as AES digital input, Track 3 & Track 4 will be synchronously set to AES digital input. The TRS 3.5mm input channels are disabled.

When connected to a computer and selected to be used as an audio interface, Track 3 & Track 4 can be occupied for USB input parameter settings.

Gain

Gain range depends on the selected input type.

- Microphone: 0 to +60dB
- Microphone 10V: 0 to +60dB
- Line: -20 to +30dB
- USB: -20 to +30dB

Fader

Controls the volume level of the channel. Its settings affect the left/right mix (mix L/R) and single tracks selected as "Post-fader". Range: Continuously variable from -inf to +20dB.

Mode

Corresponds to input source selection. Choose the mode based on the connected external input: Microphone, Microphone (10V), Line Input, Digital AES3 Input, Digital AES42 Input, USB.

By default, AES3 and AES42 are disabled and grayed out. They automatically become available when Track 1 or Track 2 is set to AES.

Low Cut

Low cut is off by default, optional 75Hz, 150Hz low cut. After enabling low cut, audio below the selected frequency will be filtered out. The low-cut filter can

reduce low-frequency noise such as wind, air conditioning, and projectors. Set the cutoff frequency of the low-cut filter to match the noise.

Equalizer Settings

Channel equalizer. Each input channel is equipped with a 3-band parametric equalizer, which can be turned on or off. Default is off.

The equalizer has the function of amplifying and attenuating specific frequency ranges. It can be used to enhance the sound of individual instruments, adjust the balance of wide frequency ranges, and cut specific unwanted frequencies, etc.

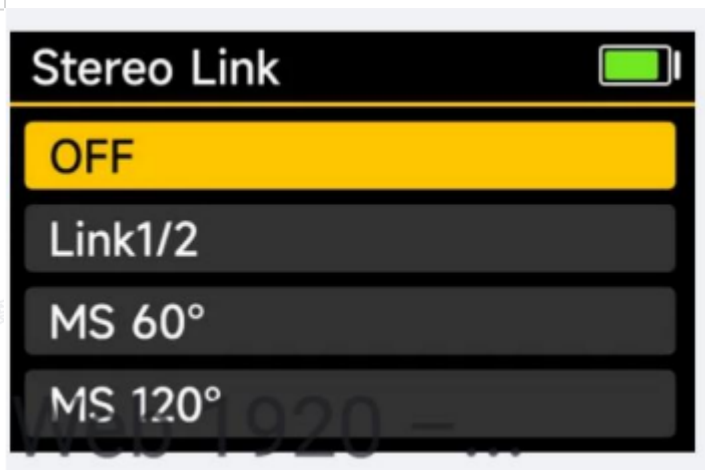
The equalizer settings are divided into Low (L), Mid (M), and High (H). The center frequency, gain, and Q value can be set for each band.

- The center frequency of all three bands can be customized.
- Adjustable range for each band's gain: -18 to +18dB.
- Adjustable range for each band's Q value: 1 to 10. A higher Q value means higher sharpness, affecting a narrower band around the set frequency. A lower Q value means lower sharpness, affecting a wider band around the set frequency.

5.1.3 Stereo Link

Enter this mode to set the channel link status. Audio from channels 1-2 can be recorded as a stereo audio file. Link options include: Off, Link1/2, MS 60°, MS120°. When channel link is enabled, the settings within the Track 1 menu will be applied to Track 2.

Note: Both MS60° and MS120° are Mid-Side stereo recording modes. At 60°, the Side component is smaller, the sound is more focused, and the angle is narrower; at 120°, the Side component is larger, the sound is wider, and the angle is broader.



5.1.4 ISO Mode (Track Record Mode)

Enter this mode to set the position in the audio chain where the single track audio is extracted. The setting applies to all 4 input channels simultaneously. Default setting is Pre-fader.

- Pre: Pre-fader, the single track signal is extracted before fader control. The recorded single track audio is not affected by the fader.
- Post: Post-fader, the single track signal is extracted after fader control. The recorded single track audio is affected by the fader.



5.1.5 Pan

Enter this mode to set the stereo pan (Pan) position of each signal in the L/R mix. Default is "Center".

5.1.6 Phase

Enter this mode to set whether the phase of each input signal needs to be inverted. Default is "Off".

(Note: If the sound seems unclear when using two or more microphones to record the same sound source, inverting the phase of one or more inputs may improve the sound quality.)

5.1.7 Limiter

Enter this mode to set the input limiter On/Off. Default is Off.

Using the limiter can suppress distortion caused by sudden excessive input sound.

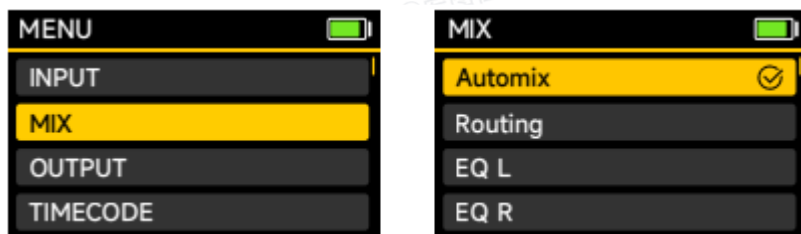
5.1.8 Delay

Enter this mode to set the delay time for each input signal. Default is "0ms" no delay, adjustable from 0-50ms.

Use this function to compensate for delays caused by signal time differences between input signals, or distance differences between connected microphones.

5.2 Mix Settings

Mix contains Auto Mix, Left/Right Mix (Mix L & Mix R), Left Equalizer, Right Equalizer.



5.2.1 Auto Mix

Enter this mode to set whether to enable the Auto Mix function. Default is Off.

Auto Mix is mainly aimed at situations with multiple signal inputs. The software can automatically adjust fader parameters to reduce environmental noise input and achieve a unified level parameter for multiple signals.

- When the single track recording mode (ISO Mode) is set to Pre, the auto mix level balance value is -15db.
- When the single track recording mode (ISO Mode) is set to Post, the auto mix level defines the upper limit average based on the fader parameters in each channel's settings.

5.2.2 L/R Mix

Enter this mode to set the routing channels for the left and right mix (Mix L & Mix R).

5.2.3 Left Equalizer

Enter this mode to set the equalizer parameters for the left mix (Mix L). Default function is Off.

The left equalizer is equipped with a 3-band parametric equalizer, which can be enabled or disabled. The equalizer settings are divided into Low (L), Mid (M), and High (H). The center frequency, gain, and Q value can be set for each band.

- The center frequency of all three bands can be customized.
- Adjustable range for each band's gain: -18 to +18dB.
- Adjustable range for each band's Q value: 1 to 10. A higher Q value means higher sharpness, affecting a narrower band around the set frequency. A lower Q value means lower sharpness, affecting a wider band around the set frequency.

5.2.4 Right Equalizer

Enter this mode to set the equalizer parameters for the right mix (Mix R).

Default function is Off.

The right equalizer is equipped with a 3-band parametric equalizer, which can be enabled or disabled. The equalizer settings are divided into Low (L), Mid (M), and High (H). The center frequency, gain, and Q value can be set for each band.

- The center frequency of all three bands can be customized.
- Adjustable range for each band's gain: -18 to +18dB.
- Adjustable range for each band's Q value: 1 to 10. A higher Q value means higher sharpness, affecting a narrower band around the set frequency. A lower Q value means lower sharpness, affecting a wider band around the set frequency.

5.3 Output Settings

Output settings include output routing, output delay, 1KHz Tone, headphone monitor presets, record reminder.



5.3.1 Output Routing

Enter this mode to set the routing and output level of the two output channels (OP1/OP2). Default is Mix output.

1, 2, 3, 4 correspond to single track audio, each signal is output in a balanced manner. Mix refers to the left/right mix output in an unbalanced manner, i.e., L output is left mix MixL, R output is right mix MixR.

Note: Each output channel can only select one signal. If multiple signals need to be output, please use Mix.

5.3.2 Output Delay

Enter this mode to set the delay time for each output signal. Default is "0ms" no delay, adjustable 0-50ms.

Use this function to compensate for signal time differences between output signals.

5.3.3 1KHz Tone

Enter this mode to turn the 1KHz tone function on or off. The internal tone level and frequency can be set. Default tone function is Off.

The main purpose of the 1KHz tone is to set a standard recording level for the entire recording system, ensuring consistent volume and avoiding distortion or noise.

- Frequency: Default is 1KHz, user can customize.
- Level: Adjustable from -20 to 0dB.

5.3.4 Headphone Monitor

Enter this mode to configure headphone monitor routing presets and volume settings. PR4 supports saving two monitor presets. Preset default names are FAV1, FAV2, supporting user-defined modification of preset names. After setting up, they can be directly called in the quick interface.

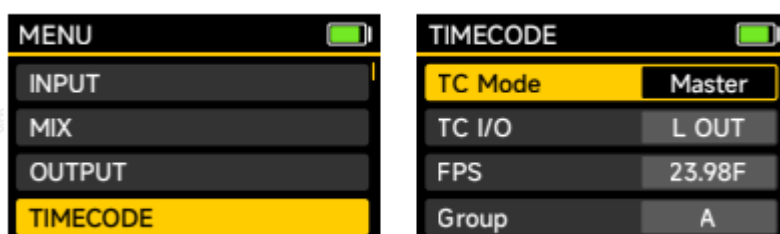
- Rename: Default name is FAV, supports combination of English letters and special characters for modification.
- Left: Routing selection for the headphone output's left channel. Only one signal can be selected. If multiple signals need to be output, please use mix (Mix L & Mix R).
- Right: Routing selection for the headphone output's right channel. Only one signal can be selected. If multiple signals need to be output, please use mix (Mix L & Mix R).

5.3.5 Record Reminder

Enter this mode to turn the record reminder on or off, and set the reminder volume. Default is Off.

- After the function is enabled, the recording prompt tone can be heard from the headphone output.
- Volume: Adjustable from -10 to +10dB.

5.4 Timecode



PR4 supports internal timecode generation and external timecode input. The device timecode can be used as master or slave. Timecode settings include Output Mode, Timecode Mode, Frame Rate, Group, Sync, Set, Color.

5.4.1 Timecode Mode

Enter this mode to set the PR4's timecode mode. Default is Auto Jam (Slave timecode mode).

- Master (Master timecode mode): In this mode, the PR4 wirelessly outputs timecode to other Deity timecode receiving devices—for example, TC-1. Other Deity timecode receiving devices need to be in Auto Jam mode or Jam Once And Lock mode and assigned to the same group. It can also sync external timecode via the TC I/O interface using a 3.5mm cable.
- Auto Jam (Slave timecode mode): In this mode, the PR4 will wait for external timecode input for timecode synchronization. The system default timecode mode is Slave timecode mode.

• **Jam Once And Lock (Jam and lock mode):** In this mode, the PR4 will wait for external timecode input and will lock after syncing once. At this time, the PR4 will not follow any commands from the master timecode device or the Sidus Audio™ application until you need

5.4.2 TC I/O Mode

Enter this mode to set the input/output type for the PR4 timecode.

- **L-OUT:** Outputs timecode as a line signal.
- **A-OUT:** Outputs audio timecode (ATC), timecode is recorded on the audio track.
- **L-IN:** Accepts timecode input as a line signal. When the timecode mode is Master, L-IN is disabled.

5.4.3 Frame Rate

Enter this mode to set the PR4 timecode frame rate. The frame rate can be set according to requirements: 23.98F, 24F, 25F, 29.97F, 29.97DF, 30F, 47.95F, 48F, 50F, 59.94F, 59.94DF, 60F. DF stands for Drop Frame. The system default frame rate is 25. When the PR4's timecode mode is set to Slave timecode mode, please set the frame rate in advance to match the master timecode.

5.4.4 Group

Enter this mode to set the group to which the PR4 timecode belongs. You can use wireless sync technology to synchronize Deity timecode-supported devices with each other. Before syncing, confirm that all devices are in the same group. The system default group is A.

5.4.5 Sync

This function is enabled when the PR4's timecode mode is set to "Master". Enter this mode to set the synchronization between the internally generated timecode of the PR4 and external time.

- EXT: External timecode can be detected via the 3.5mm jack and synchronized. When no external timecode is present, this field is empty.
- INT: Timecode generated internally by the PR4.
- DIF: Displays the difference between external timecode EXT and internal timecode INT.
- Sync: Synchronizes the external timecode to the device.

5.4.6 Set

This function is enabled when the PR4's timecode mode is set to "Master". Enter this mode to customize the PR4 timecode and User Bits (UB).

- TC: Runs from 00:00:00:00 or any custom timecode starting point.
- UB: User Bits are 8 extra characters provided in the timecode (Timecode). Unlike timecode, UB does not affect synchronization and is only recorded as additional information along with the timecode.

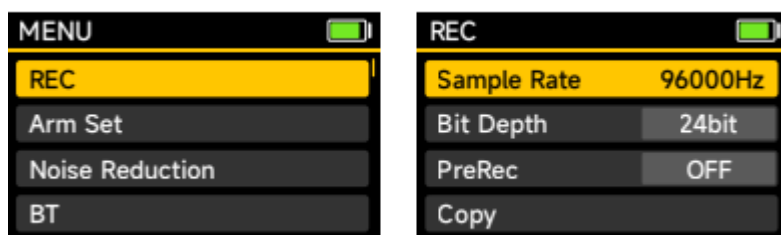
5.4.7 Color

Enter this mode to set the PR4 timecode group color. The corresponding color mark is displayed on the main screen frame rate box, using different colors to mark the device.

It can help you quickly identify and distinguish different devices in a multi-device operating environment, effectively avoiding device confusion and errors.

5.5 Record

The Record menu contains recording sample rate, bit depth, limiter, pre-record, copy, format.



5.5.1 Sample Rate

Enter this mode to set the recording sample rate. Options: 44.1KHz, 47952Hz (corresponding to video frames 23.976 fps, 29.97 fps), 48KHz, 48048Hz (corresponding to video frames 24 fps, 30 fps), 96KHz, 192KHz.

5.5.2 Bit Depth

Enter this mode to set the recording bit depth. Options: 24bit, 32bit, 32bitFloat.

5.5.3 Limiter

Enter this mode to set the recording limiter On/Off. Default is Off. When the bit depth is set to 24bit, limiting can be optionally enabled.

Using the limiter can suppress distortion caused by sudden excessive input sound.

5.5.4 Pre-record

Enter this mode to set the pre-record duration. Options: Off, 3s, 6s, 10s.

Pre-record means capturing sound before recording starts. When the pre-record function is enabled and this device is in recording standby state, it can record up to 10 seconds of signal input before recording

5.5.5 Copy

Enter this mode to choose to copy material between the built-in SD (SSD) card

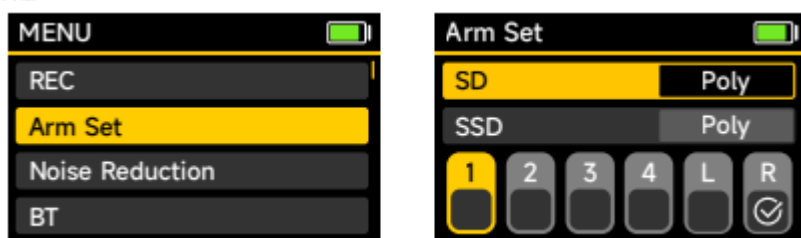
and the external SD card.

Note: The built-in SD (SSD) card memory is 64G.

5.5.6 Format

Enter this mode, you can see the storage space usage of the memory card. Select "Format", click "Confirm" to format the selected memory card. When the "Success" message appears, it indicates that formatting is complete. (Formatting the memory card after inserting it into the device before use can achieve higher recording stability).

5.6 Arm Record Tracks



The Arm function is mainly used to set the enabling/disabling of record tracks and the selection of which storage card the material is saved to.

Note: Disabling a record track in Arm does not turn off the physical channel input. The physical channel inputs of the PR4 remain enabled.

- SD & SSD

Can set the recording file format for the SD card and SSD card separately. Supports poly (multitrack audio), LR only (only stores left mix track mixL and right mix track mixR), mono (single track audio), / (do not enable recording for the corresponding storage card).

- Material Selection

Checked tracks will be armed for recording preparation. If the check for the corresponding track is取消 (cancelled), that track's material will not be recorded. Default is all channels checked for recording.

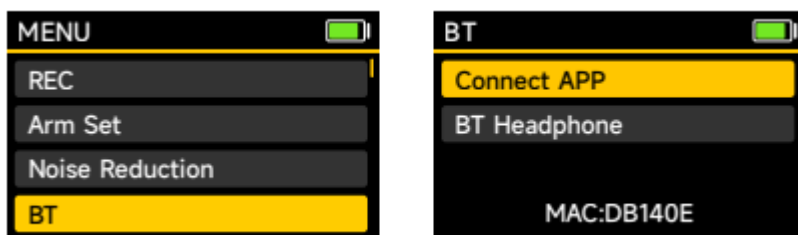
5.7 Noise Reduction

Enter this mode to enable noise reduction algorithm processing for the selected channels. Noise reduction depth can be set: 0 to -20dB. Default for this mode is no channels selected, meaning no noise reduction processing is applied to the recorded material by default.



5.8 Bluetooth

Enter this option, you can turn the Bluetooth APP function on/off, turn the Bluetooth headphone monitoring function on/off, and set up and connect Bluetooth headphones.



5.8.1 Connect APP

After the function is enabled, you can use the APP~Sidus Audio to connect and control the device. The function is on by default.

Select "Reset", click "Confirm" to reset the device Bluetooth. When the "Success" message appears, it indicates the reset is complete.

The MAC address is the Bluetooth physical address number of the current device. It is the unique identification code from the factory and can be used to distinguish different devices during mobile phone Bluetooth connection.

5.8.2 Bluetooth Headphone

When a Bluetooth adapter is connected to the PR4's USB-C port and the Bluetooth headphone function is enabled, you can directly connect Bluetooth headphones to the device for monitoring.

- **Search Devices:** Search for Bluetooth headphones for initial pairing connection. After the search is complete, select the corresponding Bluetooth headphone to connect. If the corresponding Bluetooth headphone device is not detected, please confirm the Bluetooth headphone is in pairing mode and search again.

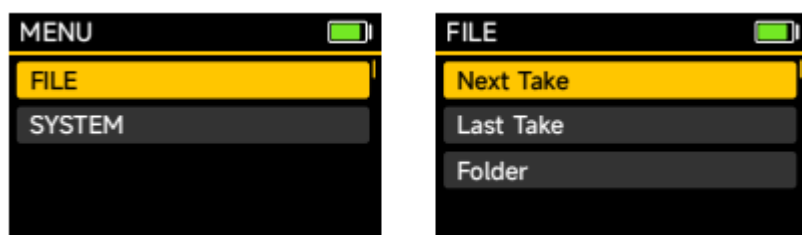
- **Paired Devices:** Displays all historically paired Bluetooth headphones. The currently connected Bluetooth headphone is highlighted in yellow.

Use the "Selection Knob" to select a headphone from the pairing history to connect; or "Forget" a headphone in the pairing history, i.e., delete this pairing history.

5.9 File

Enter this option, you can define and operate on recorded file material.

Supports file name modification, file note settings, file playback, file retrieval and other operations.



5.9.1 Next Take

Enter this mode to pre-edit the next recording file. Click to enter the corresponding module to customize and modify content.

The fixed format of the material file name is:

Scene T 001

Scene: Scene name, supports up to 20 characters, supports English (case sensitive) and special characters.

T: Scene take, 1 character, supports English letters (case sensitive) and '/'.

001: Take number

Quick Note

Enter this mode to customize the content of quick notes. Simultaneously, the device provides 13 commonly used note words.

"Quick Note" is a function that allows adding temporary markers or text annotations to the current recording without stopping the recording. It can also be used before or after recording, for example, marking a satisfactory take immediately with a note like "Good".

Folder

Enter this mode to select the folder path where the "Next Take" recording file will be stored.

The fixed folder hierarchy is: Project > Date (YYMMDD) > File Name (Scene_T_01)

Project

Enter this mode to select a custom project name. The default project name is DEITY.

Track Name

Enter this mode, you can assign a custom, descriptive name to each recording track of the device.

PR4 has 6 tracks: L (Mix Track L), R (Mix Track R), 1 (Single Track 1), 2 (Single

Track 2), 3 (Single Track 3), 4 (Single Track 4).

5.9.2 Previous Take

Enter this mode to edit the previous completed recording file. Its submenu content is basically consistent with "5.9.1 Next Take", only with one additional playback function.

Playback

Playback is only for the most recently recorded track.

1. Playback file name
2. Material duration of the playback file
3. Current elapsed playback time
4. Playback progress bar, supports manual dragging of progress
5. Remaining playback material duration
6. Play/Pause
7. Stop
8. Playback speed (multispeed playback)

5.9.3 File Browser

Enter this mode to browse completed recording files and select playback. Files support name modification and quick notes.

1. Find the corresponding material track on the recording card.
2. After clicking confirm, the selected material can be played back.

Playback in File Browser supports switching to the previous and next tracks.

3. The selected material can have its file name customized.

4. The quick note of the selected file can be modified.

5.10 System Settings



5.10.1 logo LED

Enter this option, you can choose the brightness of the rear 'DEITY' logo indicator light. "0 to 3"共 4 levels of brightness can be adjusted, 0 turns the light off. Default brightness is the brightest "3". After you adjust the settings, the system will retain the last setting.

5.10.2 Device Name (DID)

Enter this option, you can modify the name of the current device according to usage needs. The default device name is PR4. After entering the interface, use the "Selection Knob" to select the character to modify, press the "Selection Button" to confirm and lock the changed character; after using the "Selection Knob" to select "√" and press the confirm key, you can save the modification and return to the previous level interface. Before confirmation, clicking the return key will restore the previous device name and exit back to the previous level interface.

5.10.3 User Preset

Enter this option, you can save all parameter settings of the device according to usage needs, or choose to restore factory settings. User preset supports 4 custom groups.

Save

Save all current device parameter settings to the preset library. Default names start with "User Custom 1" and are numbered sequentially. Supports name modification.

Load

Load saved preset parameters.

The initial preset for "User Custom 1" is the factory parameters. If you have saved over "User Custom 1", you can use the "System Reset menu" to restore factory parameters.

5.10.4 Battery

Enter this option, you can select the corresponding NP-F550 battery based on actual usage, so that the machine can more accurately calculate the device's remaining battery life. This mode has two battery capacity type options: 3320mAh DEITY, 2200mAh.

Due to certain size differences among different NP-F550 batteries, please **优先** (priority) choose to use Deity NP-F550 batteries. Simultaneously, the PR4 is also compatible with TOPRIG Zhixun NP-F550 and ZITAY Xitie NP-F550.

5.10.5 Screen (Brightness)

Enter this option, enter this option, you can choose to adjust the screen brightness. 5 brightness levels can be adjusted. Default brightness is the brightest "5". After you adjust the settings, the system will retain the last setting.

5.10.6 USB

Enter this option, you can connect the PR4 device to a computer via a USB data cable for quick transfer of recorded audio files.

You can also use the PR4 as an external audio interface for the computer.

By default, when the PR4 is connected to a computer in the powered-off state, it is in Card Reader mode, allowing file material copying; if powered on, it switches to Audio Interface mode. When connected to a computer while powered on, it defaults to Audio Interface mode, supporting 2 input and 2 output channels (this will occupy two input tracks); if you need to switch to Card Reader mode while powered on, you need to operate within this option.

5.10.7 Firmware

Enter this option, you can view the current device's version information and the date information of the version update.

5.10.8 Upgrade

This device can be upgraded via SSD card, SD card, or SidusAudio APP. For upgrading, please download the latest firmware from the official website and place

it in the root directory of the SD card or SSD card, (insert the SD card into the device), select the corresponding card in the "Upgrade" option in the menu, and update the firmware according to the on-screen prompts. After the firmware update is complete, the firmware version will display the latest version number. You can check the current device's firmware version information in the "Firmware" option in the system settings menu.

5.10.9 System Reset

Enter this option, you can choose to reset the system. Click "Confirm" to reset the system settings. When the "Success" message appears, it indicates that the system settings reset is complete.

5.10.10 Date/Time

Enter this option, you can set the date and time for use.

Date setting allows you to custom set the current date information for the

device. Click the confirm key to enter date adjustment. Use the knob to adjust the date numbers. After adjustment is complete, click confirm to save the set date information. Click return to revert to the previous or initially set date information.

(The saving of recording files will follow the set date and automatically generate date folders. Default is generated based on system time.)

Time setting allows you to custom set the current time information for the device. Click the confirm key to enter time adjustment. Use the knob to adjust the time numbers. After adjustment is complete, click confirm to save the set time information. Click return to revert to the previous or initially set time information.

5.10.11 Language

Enter this option, you can set the display language for the device. This product supports Chinese or English interface display. After entering the language interface, use the knob to select the language. After adjustment is complete, click confirm to save the set language. Click return to revert to the previous or initially set language.

PR4 Specifications

Sample Rate	44.1KHz , 47952Hz , 48KHz , 48048Hz , 96KHz , 192KHz
Bit Depth	24bit , 32bit , 32bitFloat
Recording Format	.WAV
Built-in Microphone	None
Built-in Speaker	None

SSD Storage Card	Built-in 64G
SD Card Support	Supports up to 1TB
Timecode Support	LTC/ATC/Wireless Timecode
Analog Input Channels	4
Analog Output Channels	2
Digital Input Channels	4
Digital Output Channels	0
USB Audio I/O Channels	2 Input / 2 Output
Headphone Monitor Channels	1
Recommended Headphone Impedance	<64 Ohm
Phantom Power	48V
Maximum Input Level	Line 25dBu; Mic 8dBu
Input Gain Range	mic /48V/AES42 : 0 ~ +60dB line/USB : -20 ~ +30dB AES3 : -20 ~ +40dB

Frequency Response	20-20k
Signal-to-Noise Ratio	106dBu (pre track)
Bluetooth Band	2.402–2.480 GHz
Voltage	NPF550 7.3V ; DC 12-18V ; USB-C : 5/9/12V
Current	NPF550 360mA ; DC 220mA (14.4V) ; USB-C : 520mA
Power	NPF550 2.62W ; DC 3.16W ; USB-C : 2.6W
Power Options	NP-F550 Battery, Hirose-4Pin, USB-C
Battery Life	~8.5h (F550)
Dimensions (WxD)	98.56*80.3*41.23mm
Weight	212g(without battery)

The above data are measured by the Aputure Audio Laboratory and are subject to the actual product data!

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

Important Notes

- Please read this user guide carefully. Please keep the user guide properly.
- When handing the product over to others for use, be sure to include this user guide.
- Please pay attention to all warning prompts and comply with all instructions in the user guide.

Warning: Do not place this product where there are corrosive chemicals to avoid corrosion of the product. Corrosion may cause product malfunction.

- Please clean this product with a soft, dry cloth.
- This product is a precision instrument. Please avoid dropping, colliding, or subjecting it to heavy impact during use.
- Please keep the product away from liquids. Liquid entering the product may cause electronic short circuits or structural damage. Please store this product in a dry, clean, and dust-free environment.
- Contact authorized repair personnel when maintenance is required. This product contains精密 (precision) electronic circuits. Malfunctions caused by unauthorized disassembly are not covered under the company's warranty, but users can pay for repairs.
- This product has obtained certifications such as CE, RoHS, UKCA, FCC, IC, KC, MIC, BIS, WPC, NCC, and China RoHS. Please refer to the relevant standards and regulations for use and operation. Damage to the machine caused by improper use and operation is not covered under the warranty, but users can pay for repairs.
- This user guide is formulated based on strict tests by our company. Design and specifications are subject to change without notice.

FCC Compliance Statement

This product complies with the specifications in Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference;

(2) This device must accept any interference received, including interference that may cause undesired operation.

【Warning】 Changes or modifications not expressly approved by DEITY could void the user's authority to operate the equipment.

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

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

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The end user must follow the specific operating instructions for satisfying RF exposure compliance.

Disclaimer

Before use, please read the user manual of this product to ensure correct use after full understanding. After reading, please keep the user manual properly for future reference. If you do not operate this product correctly, you may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you have understood, acknowledged, and accepted all the terms and content of this document. The user promises to be responsible for their own actions and all consequences arising therefrom. DEITY shall not be liable for any losses caused by the user's failure to use the product in accordance with the "User Manual". Under the condition of complying with laws and regulations, the company reserves the final interpretation right for this document and all related documents of this product. No prior notice will be given for any update, revision or termination.

Please visit the DEITY official website to obtain the latest product information.