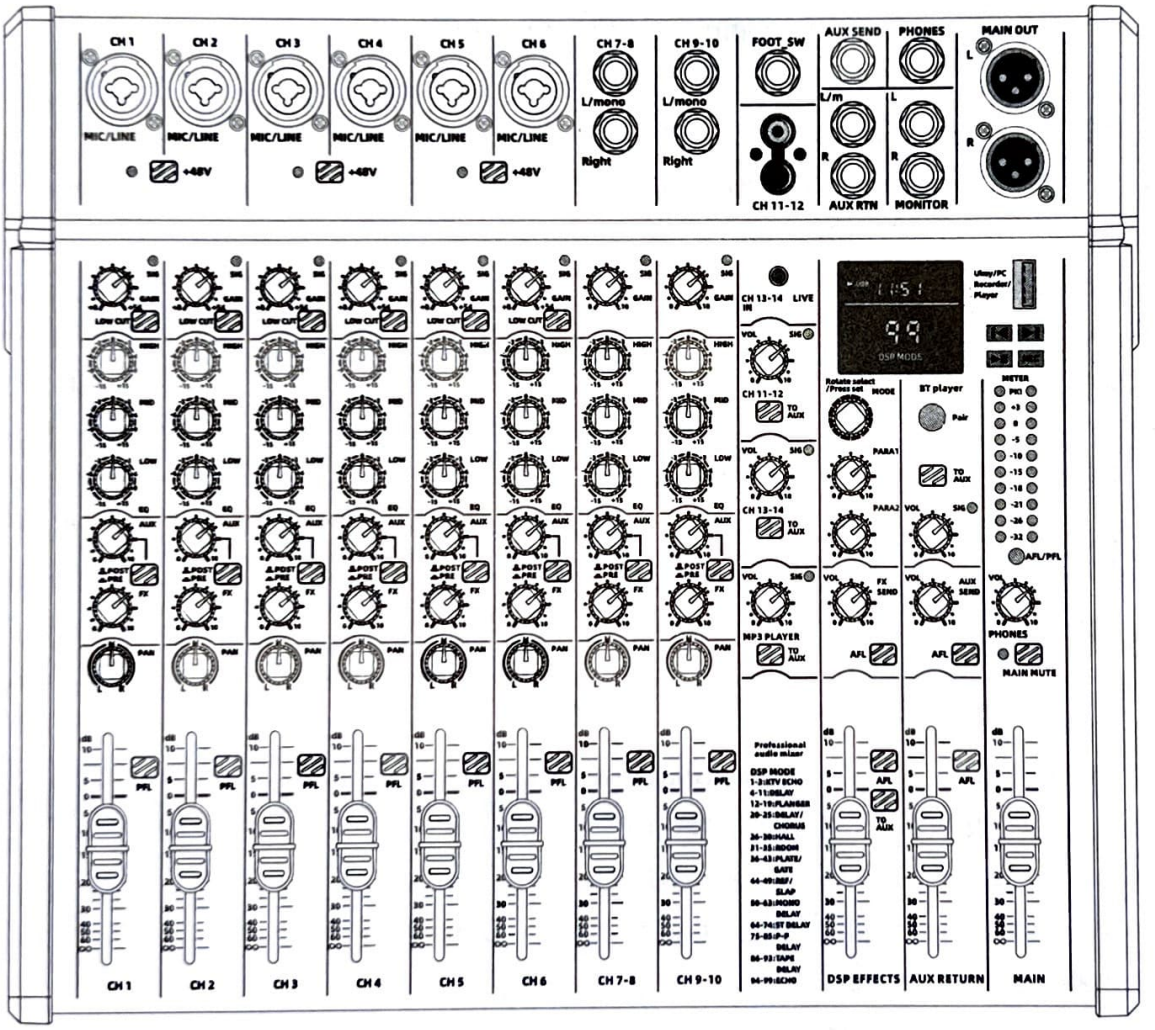



We greatly appreciate your purchase of this small mixer with Bluetooth /MP3 player / recorder / USB audio interface , 99 mode DSP effects .It is simple and easy to use, durable and durable.

It provides a very cost-effective choice for families, conference rooms, bars and other small tuning occasions.

We would sincerely offer our after-sales services that you need for this product. Before use, carefully read this user's manual and keep it for your random reference. Thanks again for your patronage.

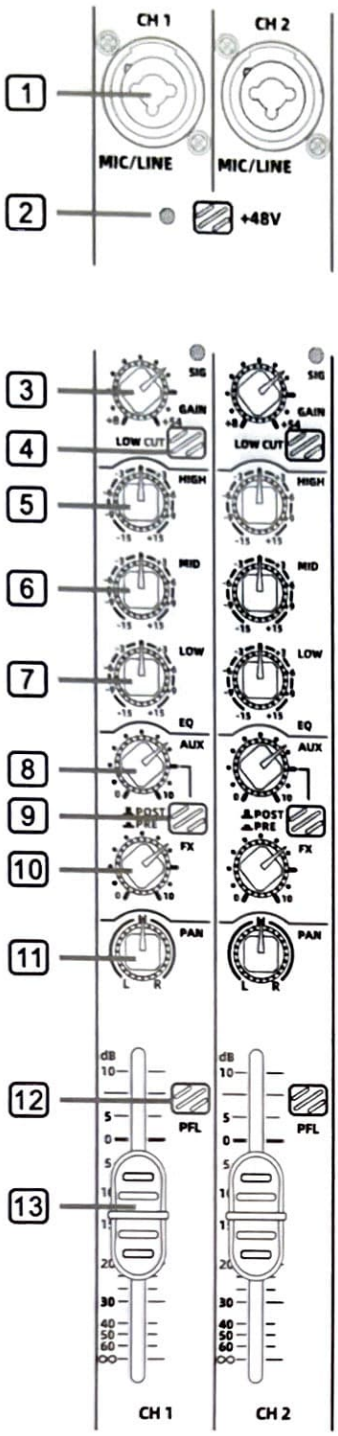
# User's Manual

# Introduction

Newly designed mixer, compact and reasonable panel layout contains many functions. Each circuit is equipped with a 60MM stroke straight sliding potentiometer to adjust the volume. Multi-channel mic input and a variety of audio input modes, AUX send and return, independent monitoring system, 99 modes of DSP effect processor, independent Bluetooth player, MP3 recording/player /USB soundcard, etc. Superior sound quality, high cost performance, can meet the majority of small and medium-sized sound amplification combination and places.

- High quality, low noise, high headroom audio mixer;
- Extremely low distortion, high dynamic response, and rich musical, wide range gain of low noise pre-amp;
- A variety of input options: 10/8/6 mic input +4 groups of stereo input;
- Mic input channels with gain control, signal indicator lamp, 3-band tones, low cut filter, left and right audio-visual distribution key, Aux and effect sending, monitoring control and direct sliding potentiometer volume adjustment functions, XLR port provides +48V phantom power supply;
- 2 groups of stereo input channels with gain adjustment, signal indicator light, 3-band of tone, left and right audio and video distribution, Aux sending and effect sending, monitoring function and direct sliding potentiometer volume adjustment functions . The other two groups of stereo input channels are with volume adjustment, signal indicator and Aux sending button function;
- Independent monitoring and signal level display;
- Aux sending output and stereo return;
- Precise 3-color, 10-band LED level display;
- 24 bit, 48KHz sampling DSP digital effects processor, 99 kinds of effects, each parameter is adjustable;
- Digital tube display stereo MP3 player/recorder, compatible with USB 1.1 audio interface standard, can be connected to the computer for audio signal recording or playback;
- Independent bluetooth player, one key pairing, easy to use;
- High quality and high precision fully sealed potentiometer, durable to use;
- Less volume, more features, more concise, convenient and easy to use;
- External high efficiency switching power supply adapter, low power consumption design.

# MONO input channel




**1.** Compound input connector, XLR port connect with microphone and other balanced signals, provides +48V phantom power.

Use TRS plugs to connect with balanced or unbalanced line-level signals.

**2.** Press this button to load +48V phantom power to the XLR ports of two compound input connectors. The red indicator light indicates that the +48V phantom power supply has been loaded.

**3.** GAIN - To adjust the sensitivity of the compound input interface signal, when the signal reaches -10dbu, the SIG on the right top of the Gain button starts to flash.

**4.** LOW CUT - press to cut off some low-frequency sound of the channel signal.

**5.** The HIGH knob adjusts the high frequency.

**6.** MID - To adjust the middle frequency.

**7.** The LOW knob adjusts the low frequency.

**8.** AUX- To adjust the volume of the channel send to AUX.

**9.** PRE/POST button, setting signal point of channel sends to AUX mixing bus located in front or behind fader.

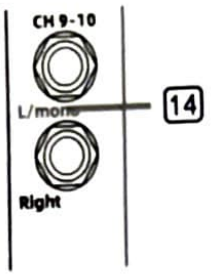
**10.** FX - To adjust the volume of the channel send to DSP.

**11.** PAN - To control the channel signals in the left-right stereo position of the main mix.

**12.** PFL - When pressed, the signal in front of the channel fader is displayed at the master level for more precise gain Settings. In PFL mode, the signal in front of the channel fader is sent to MONITOR OUT and PHONES output, and the PFL/AFL display in the main control area light on.

**13.** Channel fader controls the final level of channel signal in main mixing.

# Stereo input channel




**14.** Stereo input connector, with a 6.35mm TRS connector, connected to the stereo input source. Use L(MONO) input for MONO signal.

**15.** GAIN- To adjust the sensitivity of the stereo input interface, when the signal reaches -10dbu, the SIG on the right top of the Gain button starts to flash.

**16.** HIGH - This is to adjust the high frequency.

**17.** MID - This is to adjust the medium frequency.

**18.** LOW - This is to adjust the medium frequency.

**19.** AUX - To adjust the volume of the channel send to AUX.

**20.** PRE/POST button, setting signal point of channel sends to AUX mixing bus located in front or behind fader.

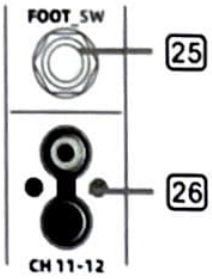
**21.** FX - To adjust the volume of the channel send to DSP.

**22.** PAN - To control the channel signals in the left-right stereo position of the main mix.

**23.** PFL - When pressed, the signal in front of the channel fader is displayed at the master level for more precise gain Settings. In PFL mode, the signal in front of the channel fader is sent to MONITOR OUT and PHONES output, and the PFL/AFL display in the main control area light on.

**24.** VOL- Controls the final level of the channel signal in the total mix.

# RCA/TRRS Stereo input channel , BT player

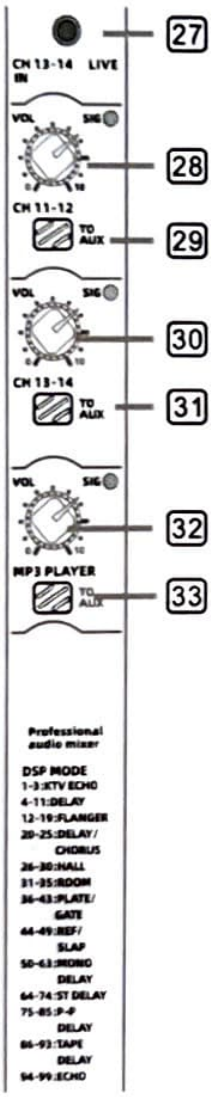



**25.** The connector of the silent foot switch with the digital effects processor.

**26.** RCA stereo interface connects unbalanced stereo sources.

**27.** 3.5mm TRRS stereo interface, The audio input/output connection is shown in the figure below:


T=LEFT,R=RIGHT,R=GND,S=MIC




**28.** The VOL knob adjusts the final volume of the RCA stereo input connector signal in the total mix. When the signal reaches -10dbu, the SIG on the top right flashes.

**29.** TO AUX - Press to send the RCA input interface signal to the AUX output.

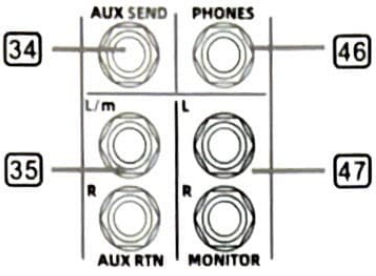
**30.** The VOL knob adjusts the final volume of the TRRS stereo interface input signal in the total mix. When the signal reaches -10dbu, the SIG on the top right flashes.

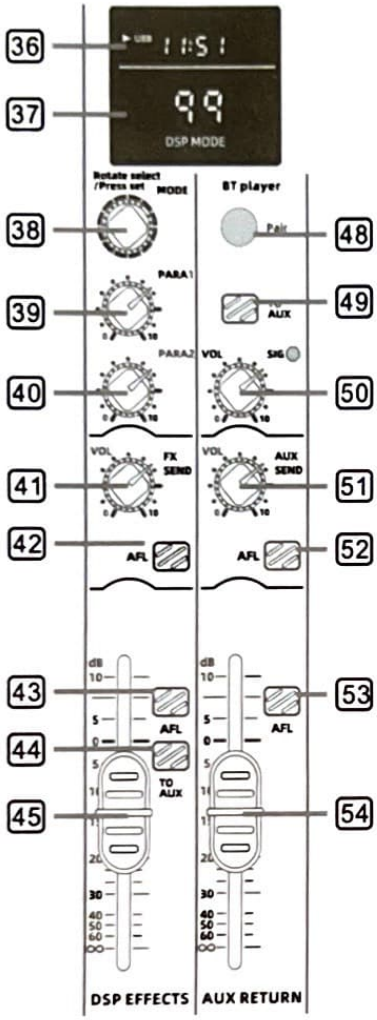
**31.** TO AUX - Press to send the TRRS stereo interface input signal to the AUX output.

**32.** MP3 VOL knob adjusts the final volume of the MP3 audio player signal in the main mix. When the signal reaches -10dbu, the SIG signal lamp at the top right of the knob begins to shine.

**33.** TO AUX - Press to send an MP3 player signal to the AUX output.

# Main control area




**34.** AUX SEND - Sending AUX sound to external DSP or monitor speaker on the stage.

**35.** AUX RTN - AUX RTN input terminal can be used to connect left/right stereo signal to a mixer, such as stereo return signal of external DSP. For mono signals, use the L (MONO) input of the stereo input.

**36.** MP3 PLAYER /Recorder/USB interface/LED display.

**37.** Digital processor display.

**38.** Mode selection and confirm knob from DSP.

**39.** PARA1 knob -- adjust the parameter 1.

**40.** PARA2 knob -- adjust the parameter 2 .

**41.** FX SEND knob -- adjust effect sending to CH main level.

**42.** AFL - When pressed, the fader behind the FX effect sending channel is displayed at the main level for a more precise level setting. Under AFL mode, the FX effect signal is sent to MONITOR OUT and PHONES output and the PFL/AFL display in the main control area is on.

**43.** AFL (post fader monitor) button, the function for AFL button is similar, please refer to the above instructions.

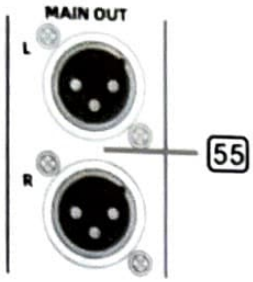
**44.** TO AUX button, press this button, and the signal from DSP will be sent to the AUX output.

**45.** DSP EFFECTS fader, adjust the main mixing volume of digital effector.

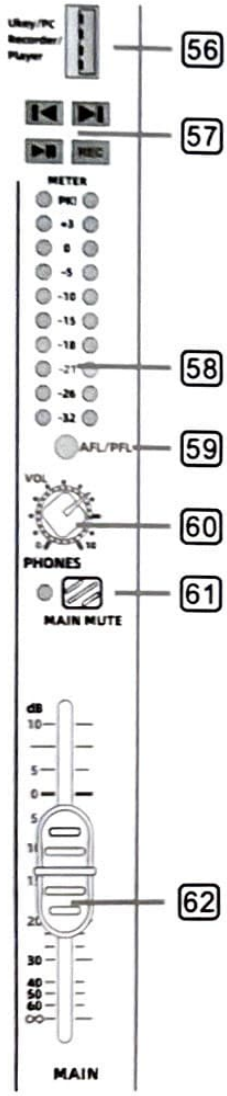
**46.** PHONES monitor earphones output connector, The interface sends a copy signal of the master mix to the monitors earphones, use PHONES VOL to adjust the level.Under PFL/AFL mode, the signal of the solo monitor channel will cover and replace the main mixing signal on the headphone output.

**47.** MONITOR OUT port sends the signal as the same as PHONES output port.

# Main control area




**48.** Pair button for Bluetooth audio receiver paring:
1. Press the button, the Bluetooth receiver enters the searching state, and the button flashes quickly.
2. After a successful connection, the button will be long and bright.
3. When the Bluetooth receiver is playing, the button flashes slowly.
4. When the Bluetooth receiver is playing or pausing, short-press the button to turn.
5. Long press the key to clear the current connection and enter the searching state again.
6. The name of the Bluetooth receiver: Bluetooth Player.




**49.** AUX- Sending the signal from the Bluetooth audio receiver to AUX after pressing this button.

**50.** The BT PLAYER VOL knob adjusts the final volume of the Bluetooth audio receiver signal in the main mix. When the signal reaches -10dbu, the SIG signal lamp at the top right of the knob begins to shine.

**51.** AUX SEND knob -- to adjust AUX mixed sending to main level of CH.

**52/53.** AFL (post fader monitor) button, the function of AFL button is similar, please refer to the above instructions.

**54.** AUX RETUTIN knob--to adjust AUX RTN input port sending to main mixed level.

**55.** XLR entrance for main out.

**56.** USB traveler / connect to the computer.

**57.** MP3 player/recorder/USB interface keyboard.

**58.** Under PFL/AFL mode, the Level display on the main output will switch channel signal level to solo monitoring.

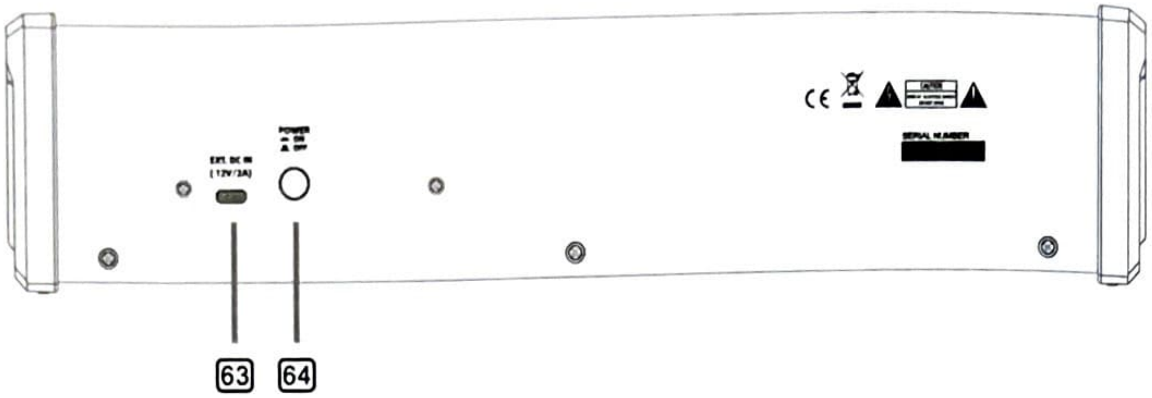
**59.** PFL/AFL - Press this button to active solo and monitor function.

**60.** PHONES VOL -- This is to adjust the volume for earphones and monitor.

**61.** MAIN MUTE - Press to be mute in main out.

**62.** MAIN OUT - To control the main volume.

# Rear panel function




**63.** DC power supply 12V/2A socket;
(Note: Be sure to use the power adapter with grounding provided in the package.)

**64.** Power switch;

# DSP digital effects processor operation

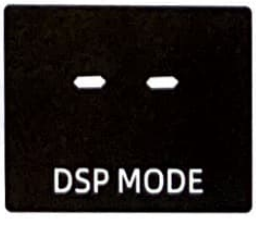
1. Rotate the MODE knob to select the required mode and the display flashes. Press the knob to stop the display blinking and determine the current working mode.

2. Rotate the knob PARA1 and PARA2 to adjust the parameters of the current mode. Not all modes have two parameters to adjust. See schema types and parameter tables.

3. Rotate the DSP EFX VOL knob to adjust the volume of the effector in the main mix.

4. Connect the foot switch to the foot switch connection port of the effect device, step down the setting effect device to OFF or ON.

Under the OFF state, The display screen is shown below:



## Digital effects processor modes and parameter table:

| No. | Name | Para1 | Para2 |
|---|---|---|---|
| 01 | KTV ECHO3 | DELAY TIME | DECAY TIME |
| 02 | KTV ECHO2 | DELAY TIME | DECAY TIME |
| 03 | KTV ECHO1 | REPEAT | DECAY TIME |
| 04 | BRIGHT HALL MID | PRE-DELAY | DECAY TIME |
| 05 | BRIGHT ROOM MID | PRE-DELAY | DECAY TIME |
| 06 | PLATE MID | PRE-DELAY | DECAY TIME |
| 07 | MONO DELAY 220 | REPEAT | DELAY TIME |
| 08 | STEREO DELAY 220 | REPEAT | DELAY TIME |
| 09 | PING PONG DELAY 220 | REPEAT | DELAY TIME |
| 10 | TAPE DELAY 220 | REPEAT | DELAY TIME |
| 11 | MODULATION DELAY | DEPTH | DELAY TIME |
| 12 | CHORUS SLOW | DEPTH | SPEED |
| 13 | CHORUS FAST | DEPTH | SPEED |
| 14 | FLANGER LIGHT | DEPTH | SPEED |
| 15 | FLANGER HEAVY | DEPTH | SPEED |
| 16 | DISTORTION_FX | DRIVE | GAIN |
| 17 | WAHWAH | DEPTH | SPEED |
| 18 | TREMOLO | DEPTH | SPEED |
| 19 | PITCHSHIFT | CENT | KEY |
| 20 | CHORUS + ROOM | SPEED | DECAY TIME |
| 21 | CHORUS + HALL | SPEED | DECAY TIME |
| 22 | DELAY + CHORUS | SPEED | DELAY TIME |
| 23 | DELAY + FLANGER | SPEED | DELAY TIME |
| 24 | DELAY + CHORUS + ROOM | DELAY TIME | DECAY TIME |
| 25 | DELAY + CHORUS + HALL | DELAY TIME | DECAY TIME |

## Digital effects processor modes and parameter table:

| No. | Name | Para1 | Para2 |
|---|---|---|---|
| 26 | BRIGHT HALL SMALL | PRE-DELAY | DECAY TIME |
| 27 | BRIGHT HALL LARGE | PRE-DELAY | DECAY TIME |
| 28 | WARM HALL SMALL | PRE-DELAY | DECAY TIME |
| 29 | WARM HALL MID | PRE-DELAY | DECAY TIME |
| 30 | WARM HALL LARGE | PRE-DELAY | DECAY TIME |
| 31 | BRIGHT ROOM SMALL | PRE-DELAY | DECAY TIME |
| 32 | BRIGHT ROOM LARGE | PRE-DELAY | DECAY TIME |
| 33 | WARM ROOM SMALL | PRE-DELAY | DECAY TIME |
| 34 | WARM ROOM MID | PRE-DELAY | DECAY TIME |
| 35 | WARM ROOM LARGE | PRE-DELAY | DECAY TIME |
| 36 | PLATE SMALL | PRE-DELAY | DECAY TIME |
| 37 | PLATE LARGE | PRE-DELAY | DECAY TIME |
| 38 | REVERB + GATE SHORT | GATE TIME | DECAY TIME |
| 39 | REVERB + GATE MID | GATE TIME | DECAY TIME |
| 40 | REVERB + GATE LONG | GATE TIME | DECAY TIME |
| 41 | DOUBLING SMALL | DELAY TIME | DECAY TIME |
| 42 | DOUBLING MID | DELAY TIME | DECAY TIME |
| 43 | DOUBLING LARGE | DELAY TIME | DECAY TIME |
| 44 | Early reflections SMALL | PRE-DELAY | DECAY TIME |
| 45 | Early reflections MID | PRE-DELAY | DECAY TIME |
| 46 | Early reflections LARGE | PRE-DELAY | DECAY TIME |
| 47 | SLAP SHORT | NONE | DELAY TIME |
| 48 | SLAP MID | NONE | DELAY TIME |
| 49 | SLAP LONG | NONE | DELAY TIME |
| 50 | MONO DELAY 60 | REPEAT | DELAY TIME |

## Digital effects processor modes and parameter table:

| No. | Name | Para1 | Para2 |
|---|---|---|---|
| 51 | MONO DELAY 100 | REPEAT | DELAY TIME |
| 52 | MONO DELAY 150 | REPEAT | DELAY TIME |
| 53 | MONO DELAY 300 | REPEAT | DELAY TIME |
| 54 | MONO DELAY 500 | REPEAT | DELAY TIME |
| 55 | MONO DELAY 600 | REPEAT | DELAY TIME |
| 56 | MONO DELAY 800 | REPEAT | DELAY TIME |
| 57 | MONO DELAY 1000 | REPEAT | DELAY TIME |
| 58 | MONO DELAY 1200 | REPEAT | DELAY TIME |
| 59 | MONO DELAY 1400 | REPEAT | DELAY TIME |
| 60 | MONO DELAY 1800 | REPEAT | DELAY TIME |
| 61 | MONO DELAY 2500 | REPEAT | DELAY TIME |
| 62 | MONO DELAY 3000 | REPEAT | DELAY TIME |
| 63 | MONO DELAY 3500 | REPEAT | DELAY TIME |
| 64 | STEREO DELAY 60 | REPEAT | DELAY TIME |
| 65 | STEREO DELAY 100 | REPEAT | DELAY TIME |
| 66 | STEREO DELAY 150 | REPEAT | DELAY TIME |
| 67 | STEREO DELAY 300 | REPEAT | DELAY TIME |
| 68 | STEREO DELAY 500 | REPEAT | DELAY TIME |
| 69 | STEREO DELAY 600 | REPEAT | DELAY TIME |
| 70 | STEREO DELAY 800 | REPEAT | DELAY TIME |
| 71 | STEREO DELAY 1000 | REPEAT | DELAY TIME |
| 72 | STEREO DELAY 1200 | REPEAT | DELAY TIME |
| 73 | STEREO DELAY 1400 | REPEAT | DELAY TIME |
| 74 | STEREO DELAY 1800 | REPEAT | DELAY TIME |
| 75 | PING PONG DELAY 60 | REPEAT | DELAY TIME |

## Digital effects processor modes and parameter table:

| No. | Name | Para1 | Para2 |
|---|---|---|---|
| 76 | PING PONG DELAY 100 | REPEAT | DELAY TIME |
| 77 | PING PONG DELAY 150 | REPEAT | DELAY TIME |
| 78 | PING PONG DELAY 300 | REPEAT | DELAY TIME |
| 79 | PING PONG DELAY 500 | REPEAT | DELAY TIME |
| 80 | PING PONG DELAY 600 | REPEAT | DELAY TIME |
| 81 | PING PONG DELAY 800 | REPEAT | DELAY TIME |
| 82 | PING PONG DELAY 1000 | REPEAT | DELAY TIME |
| 83 | PING PONG DELAY 1200 | REPEAT | DELAY TIME |
| 84 | PING PONG DELAY 1400 | REPEAT | DELAY TIME |
| 85 | PING PONG DELAY 1800 | REPEAT | DELAY TIME |
| 86 | TAPE DELAY 60 | REPEAT | DELAY TIME |
| 87 | TAPE DELAY 100 | REPEAT | DELAY TIME |
| 88 | TAPE DELAY 150 | REPEAT | DELAY TIME |
| 89 | TAPE DELAY 330 | REPEAT | DELAY TIME |
| 90 | TAPE DELAY 500 | REPEAT | DELAY TIME |
| 91 | TAPE DELAY 600 | REPEAT | DELAY TIME |
| 92 | TAPE DELAY 800 | REPEAT | DELAY TIME |
| 93 | TAPE DELAY 100 | REPEAT | DELAY TIME |
| 94 | ECHO1 100 | REPEAT | DELAY TIME |
| 95 | ECHO1 400 | REPEAT | DELAY TIME |
| 96 | ECHO2 100 | DELAY TIME | DECAY TIME |
| 97 | ECHO2 400 | DELAY TIME | DECAY TIME |
| 98 | ECHO3 100 | DELAY TIME | DECAY TIME |
| 99 | ECHO3 400 | DELAY TIME | DECAY TIME |

# MP3 player / Recorder / USB sound card operation

1. Insert the USB flash drive into the USB flash drive interface, enable the playing function automatically, as shown in the following figure.
Short press ⏮ ⏭ button to select forward /backward the track to play, short press ⏯ to pause and play.


2. Long press ⏯ button while the USB flash drive is playing, select Play mode, switch all cycle (ALL), single cycle (ONE) and random (SHU) play.
The following is displayed:


Full cycle　　Current track single cycle　　Random play

3. Recording function


Short press REC Recording button, the REC icon light up, the middle number displayed as 00:00, indicates initial recording time and under the waiting state.


Short press ⏯ button to start recording. The icon "REC" flashes, and the middle number shows the recording duration.


During the recording, short press ⏯ button, pause recording, REC icon stop flashing, middle number shows recording timing pause. Short press the button again to continue recording.


During the recording, long press REC button to end the recording and return to the play screen. Play the fragment just recorded.

4. PC mode. After connecting with the computer via a USB cable, enter the working mode of USB sound card, as shown in the figure below. Set "USB Audio 2.0" as current device in PC recording/playing software, then could do recording and playing.

# General Specifications

Maximum input level: MIC +10dBu / Line +22dBu;

Maximum output level: XLR +22dBu;

TRS +20dBu;

Master meters: 6 segment -20dB to peak! ;

Channel meters: 1 LED signal indication;

Frequency response: 20Hz to 22KHz ±1dB;

CMRR (MIC 1kHz) : >75dB;

THD+N : <0.05% (Channel to mix out);

Crosstalk (at 1kHz: Fader shutoff) : >80dB;

Noise, (rms 22Hz to 22KHz) : EIN -122dBu ;

Residual output noise <-86dBu;

L/R main mix noise <-72dBu;

Mono channel : XLR balanced, pin2 hot/pin3 cold, 2K ohm, Sensitivity -60 to +10 dBu;

phantom +48V;

TRS balanced, tip hot/ring cold, 10K ohm, Sensitivity -20 to+20 dBu;

MONO channel EQ: HF, shelving, +/-15dB, 12KHz;

MF, peak/dip, +/-15dB, 2.5KHz;

LF, shelving, +/-15dB, 80Hz;

Stereo channel-1/2 : TRS unbalanced, tip hot, 20K ohm, Sensitivity -20 to+20 dBu;

Stereo channel-1/2 EQ: HF, shelving, +/-15dB, 12KHz;

MF, peak/dip, +/-15dB, 2.5KHz;

LF, shelving, +/-15dB, 80Hz;

Stereo channel-3/4: 6.35mm TRS unbalanced, tip hot, 10K ohm, Sensitivity -20 to +14 dBu;

3.5mm TRRS unbalanced, tip/L,ring1/R, ring2/GND, sleeve/output,

10Kohm, Sensitivity -20 to +14 dBu;

DSP audio effects processor: 99 mode/24bit/48KHZ, LED display;

MP3 player/recorder: Audio decoding: MP3/WAV/APE/FLAC;

LED display;

USB 1.1 audio interface;

Bluetooth: Compliant with Bluetooth V5.1+BR+EDR+BLE specification;

Max input power : DC 12V/2A 24watts;