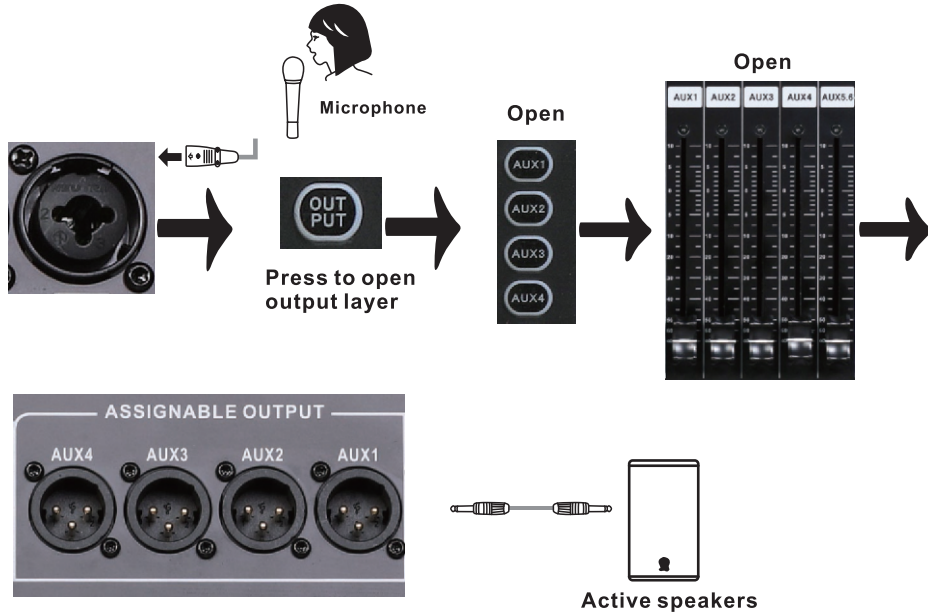




MENU

Professional Digital Mixer

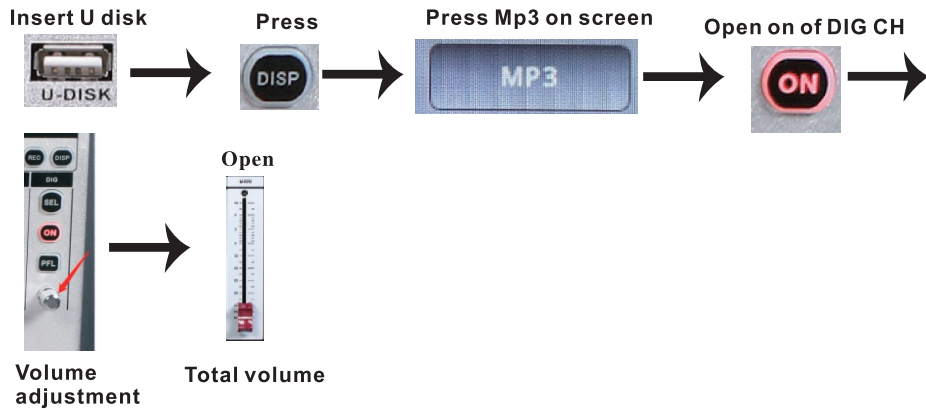
3. AUX auxiliary channel use



CATALOGUE

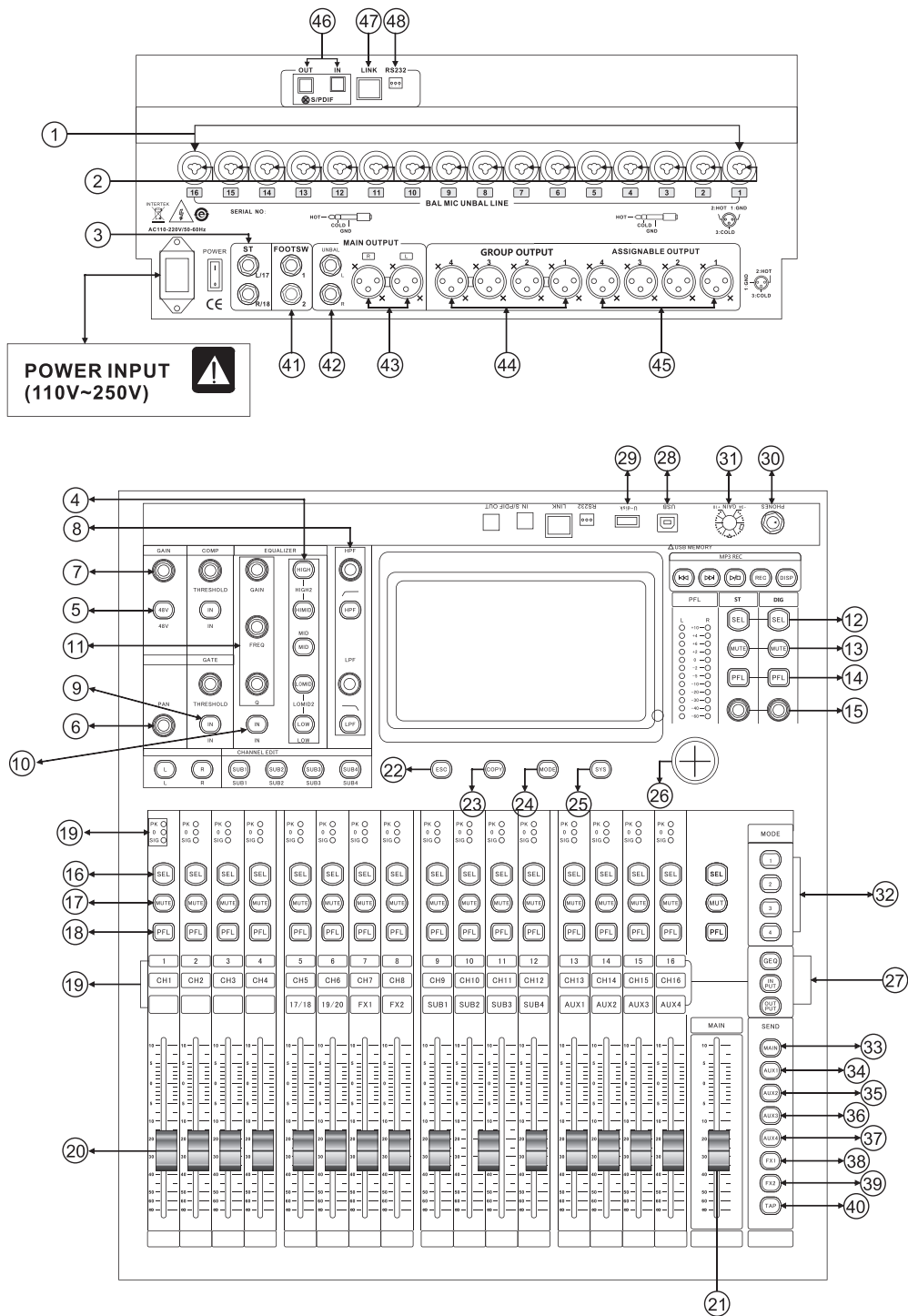
Quick Tour	2
Effect Instruction	4
Function Instruction	6
Technical Parameters	9

4.USB use



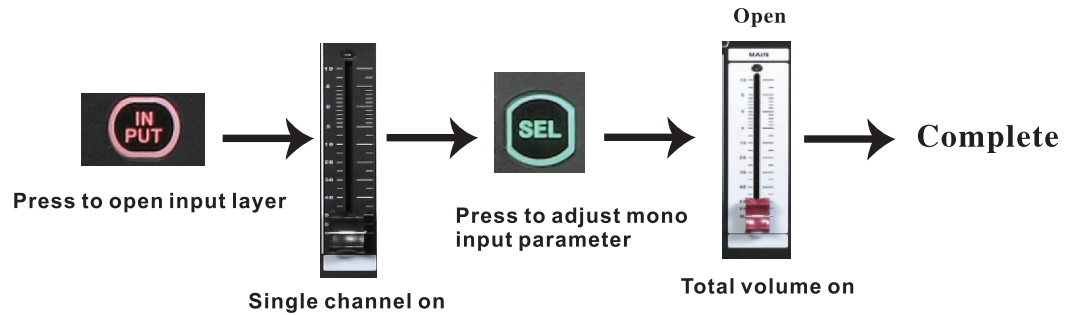
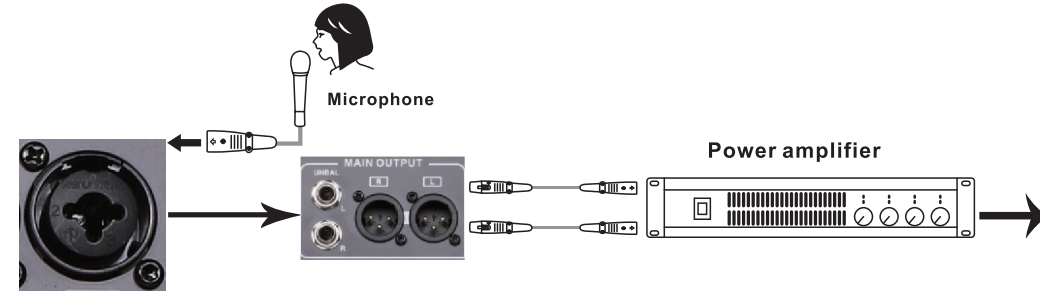
Remark:If you want to play the music from USB, please press **MP3** .

If you want to play the music from soundcard, please press **Signal** .

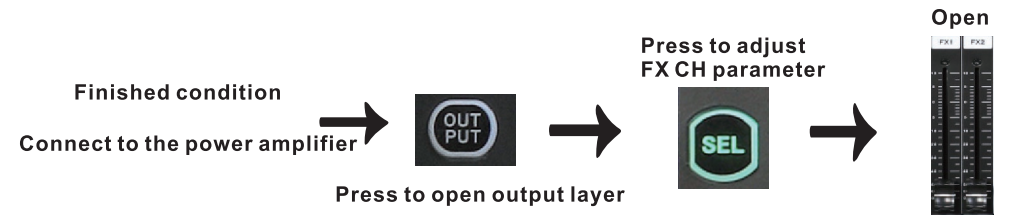


Examples of use

1. Use the amplifier



2. Use of built-in effects



Remark: You should press this key if you want to use fader to adjust the level of 1CH-16CH. Because there are two layer for this model. Press **IN PUT** to enter input layer to adjust input channel signal level. Press **OUT PUT** to enter output layer to adjust output channel signal level.

Technical Parameters

Input MIC Sensitivity:-60dB LINE:-50dB

Electronic Gain:-32dB-10dB

Input Impedance:MIC>5k ; LINE>10K

Ratio:>85dB

The maximum Voltage:3V MAX

Distortion:<0.03%(1Khz Full Power)

Frequency Response:20HZ-20KHZ+/-1dB

Parametric EQ:5 bands of Input(20HZ--20KHZ) \pm 12dB, Q 0.3~15 can be adjustable.

Output Parametric EQ:15 bands of Output(20HZ--20KHZ) \pm 12dB

Q 0.3~15 can be adjustable

Output Delay Time:0-30ms

Rush/Release:1--127ms

Control:

Network:100Mb/s Insert connect with CAT5 cable to connect with computer. Controlling the mixer through TCP/IP.The T20 app of Ipad can control the live show through wireless router (connecting point).The T20 Interface of windows to control.

Power Supply:AC(250V-110V)/50-60HZ

Mode-FX

Chorus,Flanger,Panning,Phaser,SineChorus,Tremolo,StepPhaser,Vibrato

Reverb/Delay

Spring 65,Hall,CathedrL

Delay Reverb1,Delay Reverb2

Wah-Wah

Distortion Type

Tube 1,Tube 2,Tube 3,Hyperbolic,Parabolic1

Pitch-Shift

Quick Tour

1.MIC Input:Connecting with Microphone.Please confirm the light of 48V phantom power situated in the EQ control field is on if you use condenser microphone.

Warning:Don't turn on phantom power before connecting microphone.



2.Circuit Input:Connecting with signal source.Such as:synthesizer,drum set and so on.

3.Stereo Input:Connect with stereo input and unbalance input.

4.Parametric Equalizer:The shortcut key of Parametric Equalizer
EQ:HIGH,HIMID,MID,LOMID,LOW.(From top to bottom)

5.Phantom Power Button:There has 48V voltage in MIC insert if this key is lighting.

6.Acoustic Image Rotary Knob:It controls the location of the sound field of stereo.

7.Gain :It can increase or decrease the input signal levels.

8.High Pass Rotary Knob:It can decrease the signal of low frequency.

9.Noisy Switch:The noisy is working when this button is on.

10.EQ Editing Key:EQ is working when this button is on.

11.EQ Rotary Knob:From bottom to top ,Bandwidth , Frequency ,Gain of EQ.

12.Channel Select:Channels are chosen or the parameter of channel can be edited when the button of ST 17/18 DIG is on.

13.MUTE:The You cant hear any sound of this channel if MUTE button of ST 17/18 DIG is on.

14.Monitor:The signal output from monitor or headphone when the button of ST 17/18 DIG is on.

15.Volume Rotary Knob:To adjust the volume.

16.Channel Select:The channels are chosen or the parameter of channel can be edited when the button of this channel is on.

17.MUTE:The You cant hear any sound of this channel if MUTE button of this channel is on.

18.Monitor:The signal output from monitor or headphone when the button of this channel is on.

19.1-16 GEQ: GEQ(Graphic Equalizer) stands for the gain of EQ in output channel.The gain of parametric EQ is controlled by accordingly faders.

19.CH1-CH16:The volume of each channel is controlled by faders under the INPUT state.

19.17/18-AUX4 17/18,19/20 control the Input volume.Others is each output channel output volume,which is controlled by faders.

20.Faders In each channel:It controls the electronic levels and (Electronic Faders)

21.Main output fader:Using for the increasing and decreasing the electronic levels of main output. (Electronic Faders)

22.ESC key:Return the logo interface from menu.

23.Copy key:It can copy the parameter from another channels.

24. Mode Switching Key :It is in the storage mode or adjustable mode when this key is lighting.

25.System Setting Key: IP network,Language,Native Software can be edited after Pressing this key.

26. Multi-functional Rotary Knob: This key combines with touching screen to adjust the parameter.
27. Input and output GEQ: Refer to the 19 Instruction.
28. B type USB Insert: Connecting to the computer and communication of mixer. Such as USB Soundcard, PC interface.
29. USB Insert: Using for playing music.
30. Monitor Insert: Connecting with the headphone whose impedance is larger than 150Ω.
31. Monitor Electronic Level Rotary Knob: Controlling the electronic level of monitor signal.
32. Mode Select Button: 4 shortcut scenes can be used at once.
33. MAIN When the light of MAIN is on, the volume from this channel to main output is controlled by accordingly faders. (Input channel from CH1-CH14, Stereo)
34. AUX1 When the light of AUX1 is on, the volume from this channel to AUX1 is controlled by accordingly faders. (Input channel from CH1-CH14, Stereo)
35. AUX2 When the light of AUX2 is on, the volume from this channel to AUX2 is controlled by accordingly faders. (Input channel from CH1-CH14, Stereo)
36. AUX3 When the light of AUX3 is on, the volume from this channel to AUX3 is controlled by accordingly faders. (Input channel from CH1-CH14, Stereo)
37. AUX4 When the light of AUX4 is on, the volume from this channel to AUX4 is controlled by accordingly faders. (Input channel from CH1-CH14, Stereo)
38. FX1 When the light of FX1 is on, the volume from this channel to EFF1 of FX1 is controlled by accordingly faders. (Input channel from CH1-CH14, stereo)
39. FX2 When the light of FX2 is on, the volume from this channel to EFF2 of FX2 is controlled by accordingly faders. (Input channel from CH1-CH14, stereo)
40. TAP EFF1: Short Delay Medium Delay Long Delay is Rhythm Effect, EFF2: Short Delay Medium Delay is Rhythm effect. Clicking TAP can change the delay time of Echo.
41. Effect Insert: Connecting with pedal switch.
42. L/R 6.35 Output: 6.35 unbalance output signal to amplifier or others speaker system.
43. L/R Balance Output LR Output signal to amplifier or others speaker system.
44. SUB 1.2.3.4 Output Input channel to amplifier or speaker system through group output.
45. AUX 1.2.3.4 Output Insert AUX 1.2.3.4 to amplifier or others speaker system.
46. Optical Fiber Input, Output IN□ connect with optical Fiber Input. OUT□ connect with optical Fiber Output.
47. Network Port: It is standard RJ45 Insert, Connecting with peripheral equipment to control the mixer.
48. 232 Connector

MP3

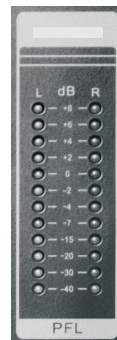
Press MP3 button to enter into MP3 menu directly.

COPY

COPY Key: This is copy button. After setting the gain, EQ etc of one channel, press the COPY button to copy all the parameter of the channel to another channels. All the adjustable parameter of CH1 to CH16 could be copied to others channels.

TAP

TAP: Rhythm Key
Press EFF2 key to enter into effect menu, the preset effect mode 08 and 09 is rhythm effect. Adjusting to the mode 08 or 09 and the key is flickering. Then, press TAP key, could adjust DELAY 's echo time.



P4. Level signal indicator

Monitor the input or output signal level. When the signal get to monitor signal level, the level signal indicator blinks. To avoid the overload sound destroy the mixer, check the level signal indicator if in the normal blinks level, then move the input or output fader to adjust.



P17: Fiber signal input/output port, it will switch in digital channels. Click on the sound source with Fn knob to choose soundcard.

48V

48V phantom power switch

The 48V phantom power is controlled separately from each channel. Press 48V button for 3 seconds, the light on. Press the button again, the light off to power off the phantom power.

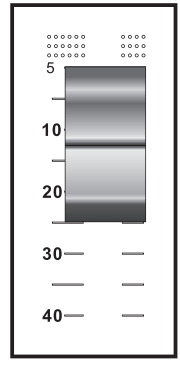
Warning: Please connect the phantom MIC before opening the 48V phantom power. Please confirm the PA System is off when switch to phantom power.



Warning: When the unbalance MIC is broken by phantom power, Balance moving-coil microphone use phantom power. All the output faders should set to the lowest situation before inserting the MIC to avoid the peripheral equipment broken.

MUT

The mute function



100mm motorized fader

PFL

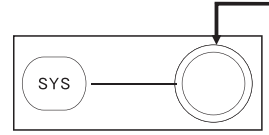
PFL: Monitor button, all the input and output channels equip with PFL button. If need to monitor any channel you want, press the monitor button and put on the headphone could monitor correspondent channel.

SEL

SEL: Channel Select, all the input and output channels equip with SEL button. Using for select the channel you need to adjust or control the specifications. Press the correspondent SEL to enter into correspondent channel menu to adjust. The menu include equalization, gain and compressor function.



These are native mode, which has been processed in the factory. You can use these native mode directly when you need. The other side, scene mode memory, quickly transfer and store the in the model 1 . 2. 3. 4, which has been adjusted by user. convenient for the user fast using switching .



It can adjust the parameter of each channel through touching the screen directly. Such as delay, volume, and the kind of effect chosen.

MODE

MODE: Save and transfer button
While entire the scene's effect is in the OK status, press MODE button, the screen will turn to the mode menu. Touching the screen to select the storage mode need to save, 1 to 20 storage mode, then click the SAVE on the bottom of screen, eject the dialog box: if need to save the mode x 's data? Click the confirm is OK.

Effect Instruction

Mode FX

Effect Mode: Chorus, Flanger, Panning, Phaser, SineChorus, Tremolo, StepPhaser, Vibrato

Effect Output Volume: EffectLevel

Volume: Level, 0%-100%

Parameter

Delttime: 0.66ms--20ms Delay Time: Minimum: 0.66ms, Maximum: 20ms

Feedback: 0%--100%

PreHP: 0Hz--1200Hz

HDamp: 0%--100%

Rate: 0.02Hz--5.80Hz

Depth: 0%--100%

TremShape: 0

Foot SW Mode: Fx1, Fx2, FX1+FX

Reverb/Delay

Reverberation Effect: Spring 65, Hall, CathedL

Echo Effect: Slap-Back, Short Delay, Medium Delay, Long Delay

Echo with reverberation Effect: Delay Reverb1, Delay Reverb2

Effect Submenu

Reverb

Reverberation output volume: Levelrev, 0%--100%

PreHp: 0Hz--1200Hz Effect Highpass effect: 0Hz--1200Hz

PreDelay: 0ms--127ms

TimeRev: 0%--200%

HDamp: 0.00%--100%

Tone: -12dB--6dB

ToneFreq: 0-127

Delay

LevelDel: 0%--100%

PreLP: 1500Hz--8000Hz

TimeDel: 0ms--1200ms

Feedback: 0%--100%

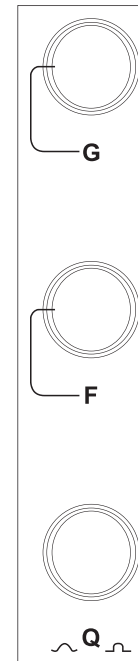
Professional effect: Wah-Wah

Filter:0-8000HZ,0-8K
 Resonance:0%--100%
 Auto Wah:0.00%--100% (The ratio of the Volume "Wah")
 Lowpass Effect Type : LPF BPF
 Distortion
 Distortion ON/OFF
 Distortion Type
 "Tube1"" Tube2"" Tube3"" Hyperbolic"" Parabolic1"" Raw"
 Distortion Output Volume:PreGain 0.00%--100%
 Filter:0--8000Hz
 Resonance:0.00%--100%
 Rc-LPF; 1500Hz-8000Hz Shoot-through:1500Hz--8000Hz
 Post Gain:0.00%--100%
 Pitch-Shift
 Pitch-Shift Mode:Light Detune
 1/2 Tone:-12----+12
 Fine Tone:0--127
 Filter:0--8000Hz
 Resonance:0%--100%
 Dry/Wer-Mix:0%--100%

This button is setting the power of signal source,the rest is assigned to reverberation.The overload signal of this channel will distortion if it too high.The background noise is too obvious if it too low.There is not enough the signal levels in the channel output.

Caution:Some of audio equipment.Especially for the family equipment work under low electrical level(-10dB).Therefore,it needs high gain to achieve the same output electrical level.

Function Instruction



Function Specification and Instruction:

4.1 EQ adjustment:Q Value adjustment

Q value is the ratio of center frequency to Bandwidth.The wider for center frequency,The lower for the value and vice versa.

4.2 Frequency Adjustment

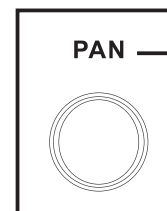
Frequency is center frequency point.This frequency is adjustable according to the need frequency point.For example,high pitch is 2KHz-16KHz.Middle Frequency is 250-2KHz.Low frequency is 20Hz-250Hz.These are general frequency band.

4.3 Gain adjustment

Gain is the increasing and decreasing of electrical level.The maximum attenuation is 12dB when the knob turn left and the maximum is 12dB when it turns right.If transmitter appear the sound"SI~SI",you can decrease the gain for high frequency.If the transmitter appear the sound "",you can decrease the gain for Low frequency.



To adjust EQ.It is in activity state when the button is on and it can be edited and vice versa.



L&R balance output adjustment.