编制	
校对	FMX-1804-IB-02-0 说明书
项目工程师	技术要求:
标准化	1、说明书大小: A4/20P 2、白底黑字:
审核	3、纸质: 80g书写纸。 4. 环保要求: 符合ROHS, CP65
批准	▲ 出英文版图纸

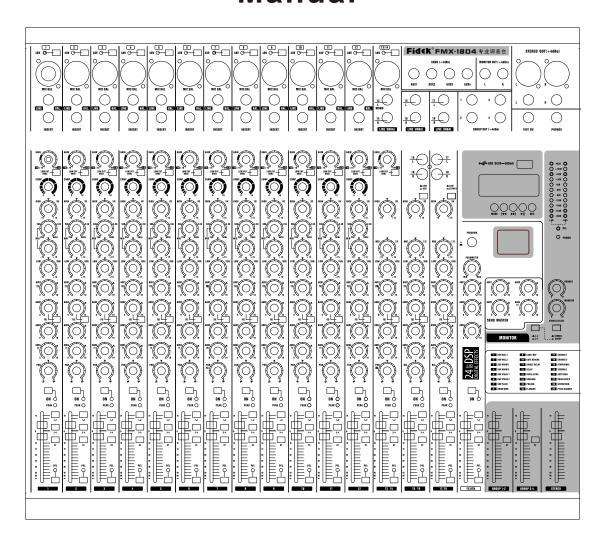
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		QRD	-1112-A.O		
序号	开发 阶段	版本	变更内容	变更人	日期
1	PP	V3.0	出英文版图纸	罗敏欣	2023-12-26
备	备注:				



FMX-1804

Manual



Thank you very much for purchasing First Audio products.

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Welcome to use our company's FMX-1804 professional mixer. Please be sure to read the user manual carefully before use. This manual will help you understand the various performances of this product so that you can get the best effect.

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((Sign meaning



Sign meaning: Equipment with this mark is only designed and evaluated for safety at an altitude of 2000M. Therefore, it is only suitable for safe use below an altitude of 2000M. When used above an altitude of 2000M, there may be safety hazards.

"仅适用于海拔2000m以下地区安全使用。

2000m عمل পল্লেলেশ ক্ষেত্রেক পং গ্রেক ক্রেড রু ক্রিক্টের ক্রেড রু কি প্রকার করে। করে ক্রিক্টের ক্রেক্টের ক্রিক্টের ক্রিক্টের

Hai dou gaxgonq, wngdang sien duenh denvasen bae

⟨⟨ Safety guidance



Note: To reduce the risk of electric shock, do not remove the cover; there are no user-accessible parts inside. Have it serviced by a qualified technician.

WARNING: To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.



When this symbol appears, it warns you that there is uninsulated dangerous voltage inside the enclosure. This voltage is enough to cause electric shock.



When this symbol appears, it warns you that there are important operating and maintenance instructions in the attachment. Please refer to the operating manual.

Detailed Safety Instruction: You must read the safety and operating instructions before operating this equipment.

Storage Instruction: Safety and operating instructions must be retained for future reference.

Heed Warnings: All warnings on the equipment and operating instructions must be followed.

Follow instruction: The operating instructions and user instructions must be followed.

Water and moisture: This device should not be used near water (such as near a bathtub/wash basin /kitchen sink/laundry tub, etc.).

Ventilation: This device should not be placed or positioned in such a way as to prevent its normal ventilation, e.g. the device should not be placed on a bed/sofa/blanket or similar surface that blocks its ventilation openings, or placed in a built-in device, e.g. In bookcases or cabinet shelves that may impede air circulation through vents.

Heat: This equipment should be placed away from heat sources such as heating/temperature devices /stoves or other devices that generate heat (including power amplifiers).

Power supply: This equipment can only be connected to the type of power supply specified in the instruction manual or marked on the equipment.

Warning

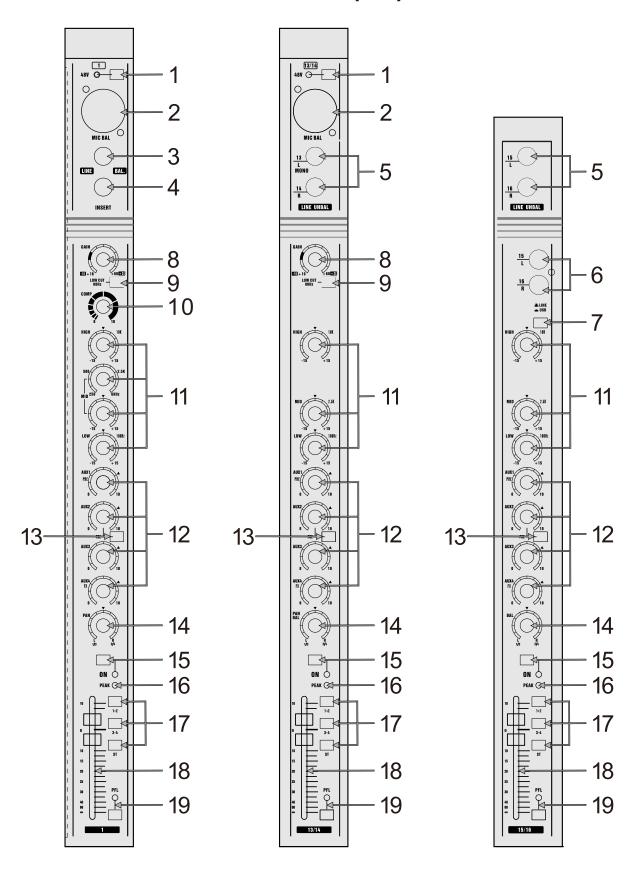
In order to ensure the safety of your personal and property, please be sure to read the safety instructions and related precautions before using the product, and operate in accordance with the safety instructions.

- 1: For adequate ventilation and heat dissipation, please ensure that the distance between the product and surrounding objects is at least 100MM.
- 2: Do not cover the ventilation openings with items such as newspapers/tablecloths/curtains to avoid obstructing ventilation.
- 3: Do not place exposed flame sources, such as lit candles, on the product.
- 4: The product is only suitable for use in areas below an altitude of 2,000 meters.
- 5: The product must not be exposed to water drops or splashes, and items filled with liquids such as vases cannot be placed on it.
- 6: The product is Class I equipment and should be connected to a power grid power output socket with a protective ground connection.
- 7: The disconnecting device of the grid power supply is the power plug, and the disconnecting device should be easy to operate.
- 8: When the power switch is "off", the product is still connected to the power grid. Please do not remove the product casing without authorization to avoid the risk of electric shock to the human body. If you want to completely disconnect from the mains power supply, please disconnect the mains power supply disconnecting device, that is, the power plug from the mains power supply.

{ Feature

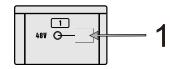
- 1. This mixer uses ultra-low impedance circuits and professional balanced input and output to minimize noise and achieve incredible quietness. Each input channel is equipped with a split microphone preamplifier, not a standard integrated circuit, but a paired ultra-low-noise transistor that operates at high current, making the product quality rich in the low frequency band and clear in the mid frequency band.
- 2. The 60mm long-throw fader makes the tuning effect more precise, and high-quality components have undergone very strict component testing and product testing.
- 3. In order to produce the best sound quality, each mono channel is equipped with high-cut equalization/low-cut equalization and mid-band sweep equalization. This design will produce first-class "musical" sound.
- 4. Built-in 24 high-quality digital effectors, each group or mixing bus can be selected arbitrarily.
- 5. With USB recording and playback functions, and a 26-bit/48K USB audio interface, you can use the USB audio interface to play music from the computer, or use recording software to record the output signal of the mixer. It supports USB standard specifications and does not need to install a driver. Enables high-quality recording and playback.
- 6. Built-in Bluetooth /U disk playback and recording, supports the playback of Mp3/WMA/WAV and other files, and can also support the playback of high-quality lossless FLAY audio files. The recording is in MP3 format and can reach a rate of 256kbps.

1. Input part



1:PHANTOM+48V switch and indicator light

Use this switch to turn phantom power on or off. When this switch is on, DC+48V power can be applied to the XLR input socket. When the switch is on, the indicator light will light up. An independent phantom power switch for each MIC channel

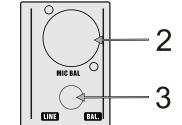


Remark:

- 1: If you do not need phantom power, be sure to set this switch to off.
- 2: When phantom power is turned on, pay attention to the following phenomena to prevent damage to the mixer or external equipment or noise.
- --If a device that does not use phantom power is connected to the XLR input socket, turn this switch off.
- --Never disconnect the XLR plug cable when this switch is on.
- --Before turning on or off the phantom power, set the {STEREO} master fader and {GROUP} fader and other output controllers to the minimum level.

2/3: Channel input jack

- --2: MIC jack is a balanced XLR type input jack.
- --3: LINE jack is a balanced headphone input jack. Balanced or unbalanced headphones can be inserted into these jacks.

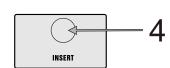


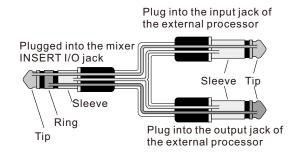
Remark:

When an input channel provides both a MIC jack and a LINE jack, you can use one of the jacks, but you cannot use both at the same time. You can only connect to one jack of each channel at a time.



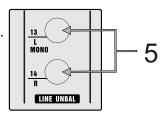
Between the equalizer and channel fader for the unbalanced headphone input channels (1-6). These jacks can be used to independently connect these channels to various devices such as graphic equalizers, compressors and noise filters. These are TRS (tip, ring, sleeve) headphone jack that supports two-way operation.





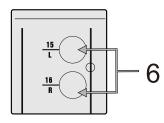
5:Stereo input jack LINE(L/MONO,R)

This input jack is an unbalanced phone type line stereo input jack.



6:Stereo input jack LINE(L,R)

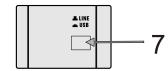
This input jack is used to connect line-level instruments, such as electronic keyboards and audio equipment.
Two jack types are available: phone type and RCA pin type.
Note: On any given channel, you can use either a phone jack or an RCA jack, but not both together. If both types of jacks are used at the same time, only the phone jack will function.



7. Line USB Switch

Switch between LINE stereo input jack and USB2.0 jack (CH15-16).

Switch between LINE stereo signal input jack and Mp3/Bluetooth (CH17-18).

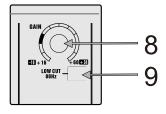


8:GAIN knob

Used to adjust the gain of the input signal to obtain the best signal-to-noise ratio and dynamic range.

9:LOW CUT high-pass filter switch

This switch turns the HPF on or off. To turn the HPF on, press this switch. The HPF will clip frequencies below 80H. (Note, however, The mixer will not apply HPF to the line input of a stereo input channel regardless of the switch setting.).



10:C0MP knob

Used to adjust the amount of effect applied to channel compression. When the {COMP} knob is turned to the right, the threshold/ratio and output gain are adjusted simultaneously.

--Threshold: +22 dBu to -8 dBu --Output gain: 0 dB to +7 dB

--Ratio: 1:1 to 4:1

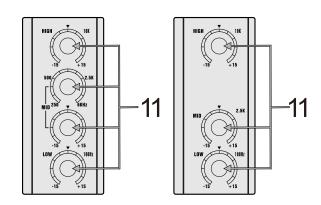
--Attack time: about 25ms
--Release time: about 300ms

Note: Avoid setting the compression ratio too high as the resulting higher average output level can create feedback.



11:Equalizer knob

This three-band equalizer adjusts channels in three frequency bands: high/mid/low. Setting this knob to the position produces a flat frequency response. Turning the knob to the right enhances the corresponding frequency band, while turning the knob to the left Frequency bands that can be attenuated. The table on the right shows the EQ (equalizer) type/basic frequency and maximum attenuation/enhancement of the three frequency bands.



12:AUX1-4

The AUX1 knob controls the signal level of the channel's pre-fader signal sent to the AUX1 bus;

The AUX2 knob controls the signal level sent from this channel to the AUX2 bus;

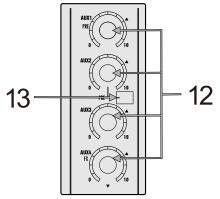
The AUX3 knob controls the signal level of the channel's post-fader signal sent to the AUX3 bus; The AUX4 knob controls the signal level of the channel's post-fader signal sent to the AUX4 bus. Normally these knobs should be set close to the position. If a stereo channel is being used, the L (odd) and R (even) channel signals will be mixed and sent to the AUX1-4 communication bus.

Frequ	iency	Type	Basic frequency	Maximum weaken/enhance
HIGH	l(高)	Slope	10kHz	
MID	Mono	Peak	250-6kHz(variable)	±15 dB
(中)	Stereo		2.5kHz	± 13 db
LOW	(低)	Slope	100Hz	

13:PRE switch

This switch is used to select whether to send the pre-fader or post-fader signal to the AUX2 bus.

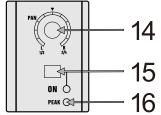
Please note that this switch only affects AUX2.



14: PAN control, PAN/BAL control, BAL control

The PAN control determines the positioning of the channel signal on the Group1-2/3-4 bus or the stereo L and R buses.

The BAL control knob sets the balance between the left and right channels. Signals going to the L input (odd channels) are sent to the Group 1/3 bus or stereo L bus; signals going to the R input (even channels) are sent to the Group 2/4 bus or Stereo R bus.



15:0N switch

This switch outputs the channel signal to the stereo L and R buses. To send the signal to the stereo bus, press the switch to set it to on. The switch lights green to indicate it is on.

16:PEAK (peak value) indicator light

Detects the peak level of the post equalizer signal and lights up red when the level reaches 3dB below the cutoff level.

17:Bus distribution switch

When this switch is turned on the signal can be output to the corresponding bus. The 1-2 switch is assigned to GROUP1-2, the 3-4 switch is assigned to GROUP3-4, and the ST switch is assigned to STEREO L/R.

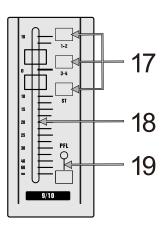
18:Channel fader

Adjust the output level of the signal input to this channel. Use this fader to adjust the volume balance between each channel.

Note: In order to reduce noise, please adjust the unused channel faders to the minimum.

19:PFL (pre-fader monitor) switch

This switch is used to monitor the channel pre-fader signal. To set this switch to on, please press switch to make it light up (an independent indicator light for each channel). When the switch is turned on, the mixer Output channel pre-fader signals to the PHONES and C-R OUT jacks for monitoring.



20:SEND socket (AUX1-4)

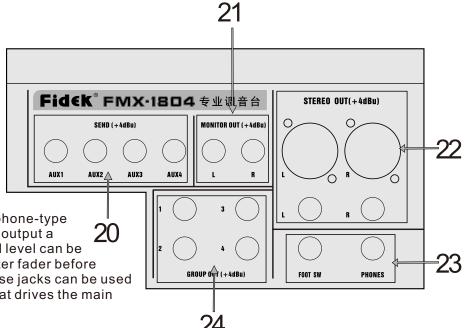
These are impedance-balanced phone-type output jacks. These jacks output the signal from AUX1-4 respectively. These jacks can be used, for example, to connect to an effector or prompt box or other monitoring system.

21: MONITOR OUT jack

These impedance-balanced TRS phone jacks connect to monitoring systems.

Remark:

When the PFL indicator light is on, the channel signal of the pressed PFL switch will be output. When the PFL indicator is turned off, the bus signal selected in MONITOR section 34 will be output.



22:STEREO OUT jack

These are XLR-type and TRS phone-type balanced output jacks that can output a mixed stereo signal. The signal level can be adjusted via the STEREO master fader before being output. For example, these jacks can be used to connect a power amplifier that drives the main speakers.

23: PHONES jack/FOOT SW foot switch

1: Earphone connection jack. This is a balanced earphone type output jack. The signal monitored by these jacks is selected by the level meter signal switch and the channel PFL switch.

2: Foot switch controls the effect on or off.

24:GROUP OUT jack

These are impedance-balanced headphone-type output jacks that can output Group1-2/3-4 signals. These jacks can be used to connect to the input jacks of an MTR/outboard mixer or other similar device. The signal level is determined before being output. Adjustable via the STEREO master fader.

For example, you can use these jacks to connect a power amplifier that drives your main speakers.

25: Digital effects

--PROGRAM (program) dial

Select internal digital effects.

--PARAMETER control

Adjust the parameters of the selected effect (depth, speed, etc)

--AUX1-3 control

Adjusts the signal level sent by the internal digital effector to the AUX1-3 bus.

-- 0N switch

Enable or disable the use of the internal effector. Only the internal effector comes into play.

If this switch is turned on and the foot switch turns off the effect at the same time, the 0N indicator light will flash.

--Bus distribution switch

These switches determine the bus to which the built-in effects signal is sent. When this switch is turned on the signal can be output to the corresponding bus. Switch 1-2 is assigned to GROUP1-2. Switch 3-4 is assigned to GROUP3-4.

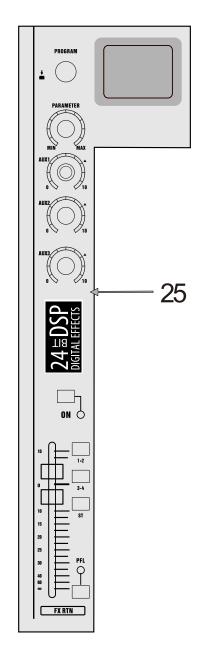
The ST switch is assigned to STEREO L/R.

--PFL switch

If you wish to output the internal effector signal to the PFL bus, set this switch to on.

--FX RTN fader

Adjusts the level of the signal sent from the internal effector to the STEREO bus.

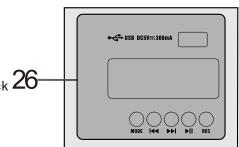


26:MP3 playback

(Note: Please press the corresponding switch of LINE Crystal /BT/MP3 at point 7 before it can be used normally)

The Bluetooth name is "FIDEK". If the Bluetooth state is not connected to the mobile phone for 2 minutes, it will enter sleep state and can be woken up by pressing any key.

The MODE button can switch between BT/USB, disconnect Bluetooth, and enter PAIR state. I Previous song button, ►I next song button, ►I play/pause button. Long press the REC button to record, short press the REC button to exit the recording playback state, and long press the ►II button to play back the recording file.



27:SEND MASTER

AUX1-4 control adjusts the output to the AUX 1-4 jack signal level.

Note: SEND 4 controls entry into digital effects at the same time signal size of the transmitter. 26-

28:ST switch at GROUP

If this switch is turned on, the mixer will send the signal processed by the GROUP fader to the stereo bus.

GROUP1/3 signals are sent to stereo L, GROUP2/4 signal sent to stereo R.

29:GROUP fader(1-2,3-4)

Adjusts the signal sent to the GROUP OUT1 to 4 jacks signal level.

30:STEREO main fader

Adjusts the signal level sent to STEREO OUT.

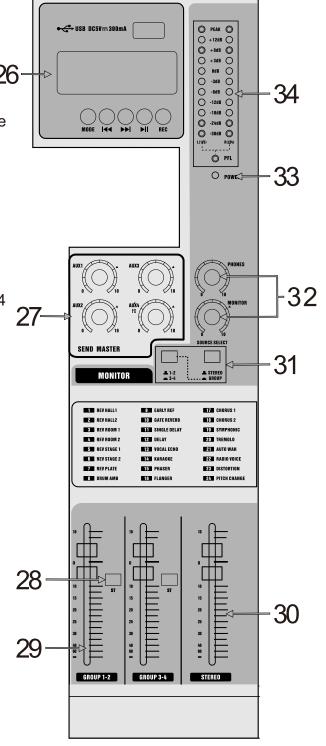
31: Monitor signal selection switch

Set the signal sent to the MONTIOR OUT jack/ PHONES jack and level meter. You can use this switch to send the signal from the STEREO L/ R bus/GROUP1

-2 or GROUP3-4 bus selection signal.

32:C-R/PHONES control

Controls the signal level output to the PHONES jack and the C-RL and R jacks.



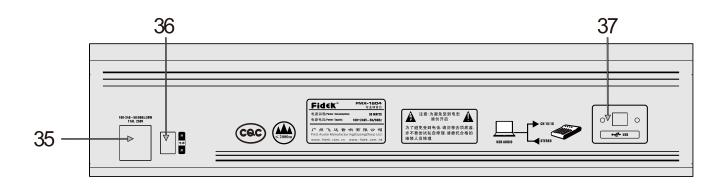
33:POWER (power) indicator light

This indicator light lights up when the mixer is powered on.

34:Level meter

The LED display indicates the signal level (the signal level sent to the C-R OUT and PHONES jacks) by the selector switch mentioned in 31 above. Corresponds to the "0" point of the standard output level. Indicates when the output level reaches the cut-off level. The PEAK light lights up red.

3. Rear panel power supply part



35:Power socket.

The power input socket inputs 100-240V~50/60Hz; AC voltage.

36:Power switch.

The power switch that controls the operation of the entire machine.

37: USB interface.

(Note: Please press the LINE **L** /USB **c** corresponding switch at point 7 before it can be used normally) Connect to the computer through a USB cable.

The USB audio input from the STEREO L/R post-fader signal is output to the computer.

⟨⟨ Parameter introduction

General technical specification sheet

0dBu=0.775Vrms signal generator source impedance= 150Ω

Frequency Input to stereo output		+0.5dB/-1.5dB (20Hz-22kHz) reference level 1kHz, GAIN to minimum	
THD+N	Output to stereo output	0.05%@+10dBu(20Hz-20kHz), GAIN to minimum	
	Equivalent input noise	-124dBu (MIC input, GAIN knob maximum)	
Noise (20-20kHz)	Residual noise	-95dBu (all channel faders are MIN, and the main fader is set to 0dB)	
	Squelch	-86dBu (the measured channel Gian/fader is set to 0dB, the tone is set to center; the main fader is set to 0dB)	
Crosstalk(1kHz)		-60dB	
Input channel		Mono: 12; Mono/Stereo: 1; Stereo: 2; INSERT input: 12	
Output channel		Stereo: 2; Monitor output: 1; Headphone output: 1; Auxiliary output: 4; Group output: 4; INSERT output: 12	
Generatrix		Cabinet sound: 1; Group: 4; Auxiliary: 4	
Function of	INSERT	Have a compressor, feedback, or other processor insert the signal	
input channel	LOW CUT	80Hz,-12dB/octave (MIC only)	
	COMP	Single knob compressor(Threshold/Scale/Gain) Threshold: +22dBu to -8dBu, ratio: 1:1 to 4:1, output level: 0dB to 7dB, attack time: about 25msec, release time: about 300msec	
		HIGH: Gain: +15dB/-15dB, Frequency: 10kHz	
	EQ	MID: Gain: +15dB/-15dB, frequency adjustable range Mono: 250Hz-6kHz, Stereo: Fixed 2.5kHz	
		LOW: Gain: +15dB/-15dB, Frequency: 100Hz	
	PEAK LED	Lights up when the channel input signal reaches 3dB below peak clipping distortion	
Level meter	Monitor output level	2X11 LED level meter	
Built-in digital effects		24 effects, PARAMETER control, FOOT SW: 1 switch	
USB Audio Connect to computer to play USB 2.0 compatible, sampling rate: 48kHz, Bit accura		USB 2.0 compatible, sampling rate: 48kHz, Bit accuracy: 16-bit	
Bluetooth/MP3	U disk play/recording	Support: MP3/WMA/WAV and other files. Recording: MP3 format, 256kbps	
Phantom supply voltage		48V	
Supply voltage/power consumption		AC100-240V,50/60Hz;30W	

Input and output characteristics

Analog input characteristics (0dBu=0.775V) (1) Sensitivity: main output 4dBu lowest input level.

Input port	GAIN	Actual load	Use under	Input	level	Interface
Input port	GAIN	impedance	rated	Sensitivity(1)	Maximum input	
MIC INPUT	MAX	340	50-600Ω	-60 dBu	-30 dBu	XLR-3-31 type
CH1-6	MIN	- 3kΩ	MIC	-24 dBu	+3 dBu	Phone jack (balanced)
Line INPUT	MAX	20kΩ	10kΩ LINE	-34 dBu	-10 dBu	Phone jack (balanced)
CH1-6	MIN		TOK12 LINE	-6 dBu	+24 dBu	Thorie Jack (balanced)
MIC 7-8	MAX	- 3kΩ	50-600Ω	-60 dBu	-30 dBu	VID 2 21 type/balanced)
IVIIC 7-8	MIN		MIC	-30 dBu	-5 dBu	XLR-3-31 type(balanced)
Line 7-8	MAX	10kΩ	10kΩ LINE	-28 dBu	-5 dBu	Phone jack (unbalanced)
Lille 7-0	MIN	10K22	TOK12 LINE	-12 dBu	+22 dBu	Phone jack (unbalanceu)
ST INPUT		1040	10kΩ LINE	-14 dBu	+12 dBu	Phone jack-RCA
10-12		10kΩ	IOKZ LINE	-14 UDU	+12 UBU 	(unbalanced)

Analog output characteristics

	Actual source		Output I		
Output port	impedance	Use under rated	Standard position output(1)	Max input(2)	Interface
MASTER OUT(R,L)	100Ω	10kΩ LINE	+4 dBu	+18 dBu	XLR-3-31 type Phone jack (balanced)
AUX OUT GROUP OUT MONITOR OUT	100Ω	10kΩ LINE	+4 dBu	+18 dBu	Phone jack (impedance balanced)
EARPHONE OUTPUT	100Ω	40kΩ LINE	3mW+3mW	10mW+10 mW	Stereo phone jack (unbalanced)

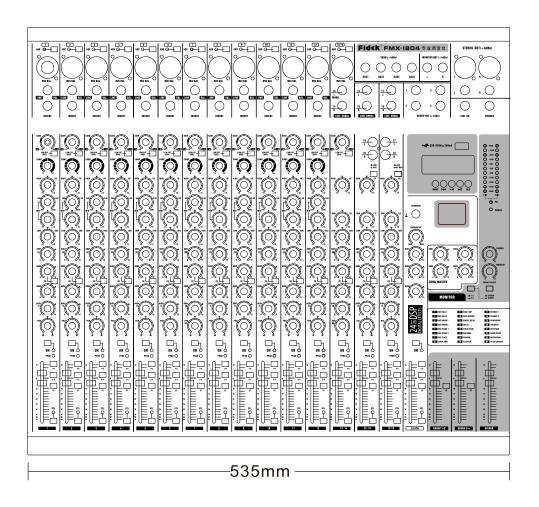
Connector polarity

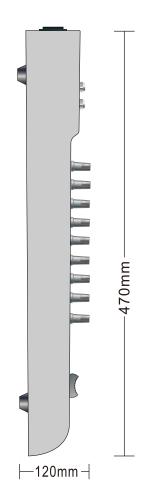
MIC INPUT MAIN OUT	Pin 1:groud Pin 2:hot(+) Pin 3:cold(-)	
HEAD-PHONE	Tip : L Ring : R Sleeve : groud	
INS I/O	Tip : Output Ring : Input Sleeve : groud	Sleeve Ring Tip
MIC/LINE/AUX SEND GROUP/MONITOR OUT STEREO OUT	Tip:hot(+) Ring:cold(-) Sleeve:groud	
LINE(立体声)	Tip:hot Sleeve:groud	Sleeve Tip

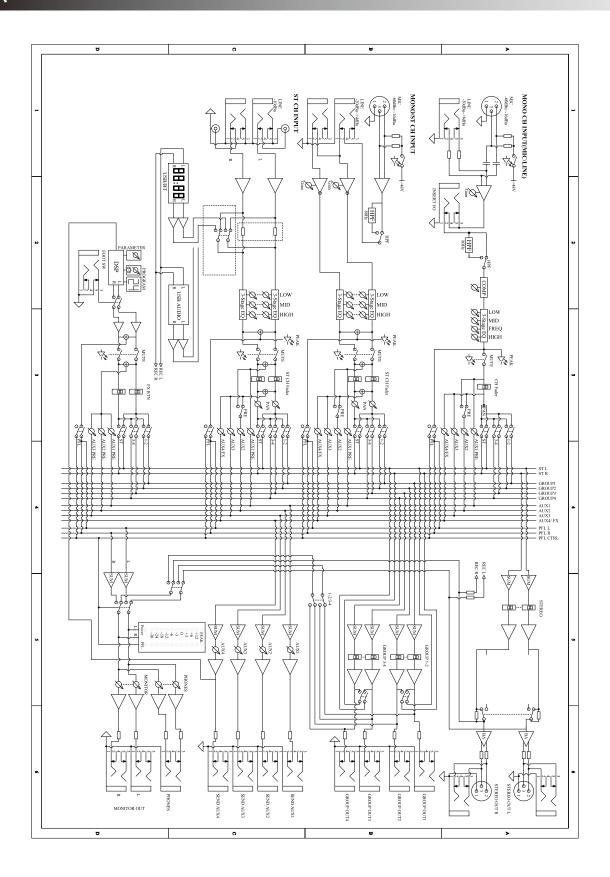
⟨⟨ Parameter introduction

Size/Weight:

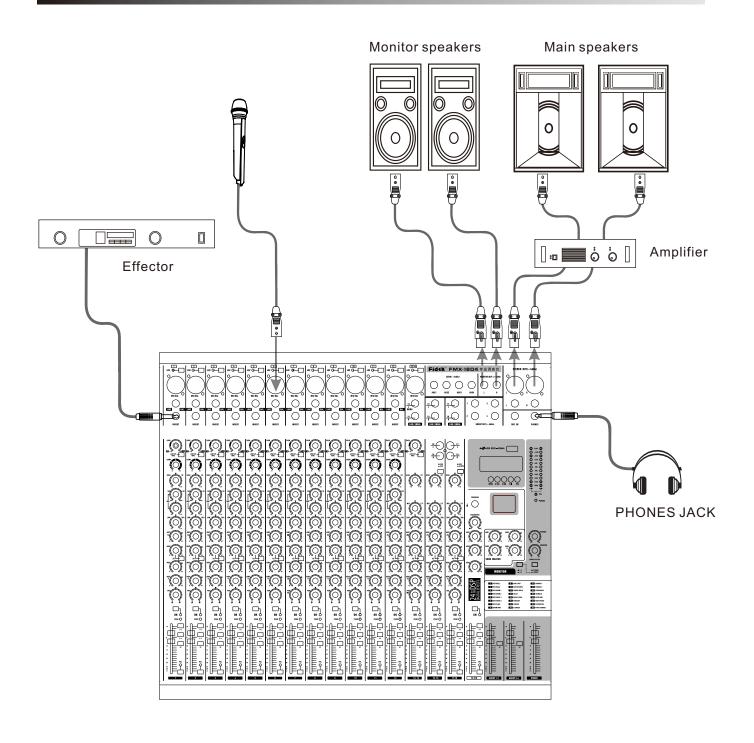
Model	Weight	Size(W*D*H)
FMX-1804	9.0KG	535x470x120







⟨⟨ Application examples





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If you have any questions, suggestions or complaints, please contact our customer service department Toll-free service hotline: 8008303013 Customer service hotline: 4008308282 Website: WWW.fidek.com.cn

No responsibility is assumed for the correctness of the information in this document. The possibility of technical changes, typographical errors and ongoing product upgrades is reserved.

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