iM-150

Mixer Manual

调音台使用说明书

DK Technology

www.dk-music.cn

Made in China

Please keep the manual properly for future reference

请妥善保存手册以备以后参考

iM-150

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— Instructions for safe operation —

⚠ WARNING

Installation

- Please connect the power supply correctly according to the instructions of this equipment manual to avoid fire, electric shock, and other hazards.
- Please avoid direct sunlight, rain, or water as it will cause damage to the device.
- Be sure not to place containers with liquids or small metal objects on the unit, prevent liquid or small metal objects from falling into the body, creating damage to the body or electric shock.
- When the device is not used for a long time, please unplug the power supply.
- Do not disassemble or modify this unit by yourself, otherwise, warranty will not apply.
- Avoid placing heavy objects on the device or power cord.

operation

- Do not scratch, bend, twist, stretch or heat the power cord. Please avoid damage to the power cord as it may cause fire, electric shock and other hazards.
- Please do not open the cover of this device without authorization. For maintenance or repair, please contact your dealer.
- Do not modify the device without authorization to avoid damage to the equipment.
- In the event of lightning, please turn off the power switch immediately and unplug the power supply from the socket.
- This device can only be used with the AC power supply specified in the manual. Using other power adapter could cause oil damage or damage.

When the abnormal operation occurs during

- If the power cord is damaged (such as a cut or an exposed core), please contact your dealer for further purchase and replacement.
- If the device is dropped from a high place or the casing is damaged, please turn off the power immediately and unplug the power from the socket. Contact your dealer when necessary.
- When you experience any abnormalities, such as smoke, peculiar smell, noise, etc., please turn off the power immediately and unplug the power from the socket.

⚠ NOTE

Installation

- Please avoid using this device in the following situations:
  - Exposure to splashes of oil and steam, such as near kitchen stoves, humidifiers, etc.
  - Unstable surfaces, such as wobbly table tops or slopes.
  - Exposure to excessive heat, such as in a car with closed windows or a place exposed to direct sunlight.
  - Exposure to strong electromagnetic.
- Do not place the power cord near the heater to avoid melting of the wire, as it may cause fire, electric shock or other hazards.
- When unplugging the power plug from the AC power socket, please grasp the plug part, do not pull the cable directly.
- Do not touch the power plug with wet hands.
- Unplug the power supply and disconnect all the cables before moving the device.

operation

- Please use this equipment in a well-ventilated environment.
- If you do not use the device for a long time, please disconnect the power plug from AC power.

Operation guide:

In order to better help you understand the functions and features of this product, please read this manual carefully before installation and operation.
- The illustrations in this manual are for explanatory purposes only.

Note

When the device is in a normal working condition for a long time, the temperature of the body may rise about 15-30℃. If the external environment temperature exceeds 30℃, the temperature of the plastic casing may exceed 50℃. Please handle with care to avoid burns.

Accessories in the package:

- Dc power adapter ×1
- PC data cable ×1

1. [MIC/LINE]:
Mono input (channel 1/2): a XLR combo input jack that connects microphone, instrument, etc.

2. 48V phantom power switch:
[🎚]:Turn off [▬]: Turn on, please turn on the built-in phantom power supply
when using any condenser microphones.
Notice: - The built-in phantom power only powers the devices that are connected via XLR plugs of channel 1/2.
- If you do not need phantom power, be sure to set this switch to off [🎚].
- When the phantom power is turned on([▬]), pay attention to the following phenomena to prevent damage or noise to the mixer or external equipment:
- Do not plug or unplug the XLR cable when the switch is on.
- Before turning on and off the phantom power supply, set the output controller such as [MAIN] to the minimum level.

3. [HPF] [High-pass filter] switch:
After the high-pass filter switch is turned on, it attenuates the frequencies below 80Hz.

4. [+48V] indicator:
The indicator lights green when the built-in phantom power is turned on.

5. 3.5mm microphone jack:
Connect to a 3V condenser microphone. The signal level can be adjusted by the [LEVEL] knob of channel 1.

6. [GAIN] Knob:
Adjust the input signal level of the corresponding channel.

7, 8. Equalizer (EQ) knobs:
Adjust the sound quality by using the [HIGH] (high-frequency band) and [LOW] (low-frequency band) knobs.
If you do not need to adjust the sound quality, set the knob to the flat position.

9. [FX/PFL] switch:
When the switch is on, the signal of this channel goes through the DSP and can be recorded by the USB Audio along with the effects. When the switch is off, the signal does not go through the DSP and can not be recorded by the USB Audio.

10. [PEAK] indicator:
Detect the input signal level, the [PEAK] indicator lights red when the level reaches 3 dB below clipping.
To reach an optimized recording level, adjust the [LEVEL] knob until the [PEAK] indicator only flash briefly.

11. LEVEL knob:
Adjust the channel output level that is sent to [MAIN].

12. [MAIN] knob:
Adjust the mixed-signal level of the [MAIN] output.

13. [PHONES] knob:
Adjust the headphone signal level.

14. Headphone jack:
Connect to a 3.5mm headphone for monitoring.

15. [FX MUTE] Switch:
When this switch is turned on, all effects are interrupted, the effect processing sound is removed, and effects cannot be changed and operated. After turning off this switch, the effect state before the interruption can be restored.

16. Streaming jack:
A LOOPBACK function for live-streaming. Please use a 3.5mm TRRS cable to connect your streaming devices.

17. [FX/PC] knob:
Adjust the DSP effect level and adjust the DSP effect level that are recorded via USB Audio.

18. Power indicator:
The power indicator is on when the power supply is connected properly.

19. MAIN signal light:
If the signal light is always on, it indicates that the signal is stable.

20. MAIN peak indicator:
The indicator is on when the output level is too high. The indicator flashes frequently or is stable when the output level is too high and distorted, adjust the [GAIN] or [Level] knob accordingly.

21. [PC/BT/USB] knob:
Adjust the recording level of the USB out.

22. [UP/DOWN] button:
Use these buttons to select a DSP effect. When the number stops flashing, the corresponding effect is applied.

23. [MODE] selection/playback control buttons:
[MODE]: switch between LINE/USB/BT mode.
- LINE: all external audio sources are disabled.
- USB: reads audio data from external drives or other data storage units.
- PC: reads audio data from the computer. Select this mode when using this unit as a sound card.
- BT: receive audio data from Bluetooth.

Playback control only applies to the current mode that is selected.
NOTICE: To avoid unit crash and damage, disconnect other devices when switching mode.

24. LED display:
Display the current status and settings of the unit.

25. [PC/USB] switch:
When the switch is at a pressed position, the unit can read data from an external storage device; when the switch is at a pop-up position, the unit can read data from a PC.

26. USB-2.0 port:
Connect to an external USB storage device for data input or firmware update.

27. [MAIN OUTPUTS]:
1/4" TRS balanced stereo output: connecting to powered speakers or powered amp. The signal level can be adjusted through the [MAIN] knob.

28, 29. RCA input jack:
Two pairs of RCA connectors, connect to an external audio device.

30. 6.35mm stereo input jack.

31. [AUX IN]:
3.5mm stereo input.

1. [DC 5V IN] connector:
Connect to the standard 110V/220V power socket using the power supply attached or connect to a PC USB port for power supply.

2. PC USB/DC 5V power switch:
Press this button to switch to a DC 5V power supply.

3. [USB 2.0] port:
Connect to PC using the cable attached for data transmission and power supply.

Mixer parameters (Combination of analog mixer and digital sound card):

Frequency response	+0.5dB/-2.0dB (20Hz-20kHz) , +1dB/F.S@1kHz, GAIN Knob: mid
THD+N	0.05%@+10dBu (20Hz-20kHz) , GAIN Knob: mid
S/N (20Hz-20kHz)	-82dBu
Crosstalk (1kHz)"2	-80dBu
Input channel function	HPF (Mono): 80Hz EQ HIGH Gain: +15dB/-15dB Frequency: 10kHz EQ LOW Gain: +15dB/-15dB Frequency: 100Hz PEAK LED: lights up when the signal after EQ reaches 3dB below the distortion
LED indication	The green light will flash when the signal reaches -10dB, the red light will flash when the signal reaches 3dB below clipping
Output level	MAX OUT (+12dB)
USB audio	2-in/2-out USB Audio 2.0 compatible
Phantom power supply voltage	48V, Support large-diaphragm condenser microphone
Voltage adapter	DC 5V/2.0A

24DSP	
Reverberation	
1. Simulate reverberation in small spaces such as concert halls	
2. Simulate the reverberation of the acoustic environment of small space (auditorium)	
3. Simulate the reverberation of large spaces such as theaters	
4. Echo of the Valley	
Electronic synthesis sound	
5. Auto-tune	A flat major
6. Auto-tune	A major
7. Auto-tune	B flat major
8. Auto-tune	B major
9. Auto-tune	C major
10. Auto-tune	D flat major
11. Auto-tune	D major
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16. Auto-tune	G major
17. Auto-tune	Chromatic scale
Synthetic sound effects	
18. Female Voice	
19. Uncle Tone Flanger	
20. Children's Voice	
21. Ghettoh Echo	
22. Magic Sound (Male)	
23. Magic Sound Echo (Male)	
24. Original Tone	

Input and output port connection part

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- Avoid placing heavy objects on the device or power cord.

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- Please do not open the cover of this device without authorization. For maintenance or repair, please contact your dealer.
- Do not modify the device without authorization to avoid damage to the equipment.
- In the event of lightning, please turn off the power switch immediately and unplug the power supply from the socket.
- This device can only be used with the AC power adapter attached. Using other power adapter could cause unit damage or leakage.

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Mono input (channel 1/2): a XLR combo input jack that connects microphone, instrument, etc.

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(▙)Turn off/ (▟▃) Turn on, please turn on the built-in phantom power supply when using any condenser microphones.
Notice: - The built-in phantom power only powers the devices that are connected via XLR plugs of channel 1/2.
- If you do not need phantom power, be sure to set this switch to off (▙).
- When the phantom power is turned on (▟▃), pay attention to the following phenomena to prevent damage or noise to the mixer or external equipment.
- Do not disconnect the XLR plug when the switch is on.
- Before turning on and off the phantom power supply, set the output controller such as [MAIN] to the minimum level.

3. [HPF] (High-pass filter) switch:
After the high-pass filter switch is turned on, it attenuates the frequencies below 80Hz.

4. [+48V] indicator:
The indicator lights green when the built-in phantom power is turned on.
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6. [GAIN] Knob:
Adjust the input signal level of the corresponding channel.
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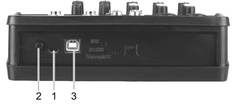

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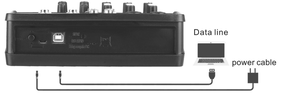
Input and output port connection part