

User Manual



PRO MIXER DX626

Professional 3-Channel DJ Mixer with
BPM Counter and VCA Control



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Thank you

Your purchase of the BEHRINGER PRO MIXER DX626 has put you at the forefront of today's trends in DJ mixing consoles. Numerous features such as the talkover function and the beat counter enable you to work in completely new and creative ways. The DX626 is a mixer for professional use, it is extremely easy to operate and it helps you give free rein to your creativity.

EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at

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1. Introduction

Time is tight, and if you don't want to be left in the dust you'd better get moving. To help you along, we have developed an excellent DJ mixing console with the most popular new features and technologies. It is perfectly suited for use in dance clubs or for DJ systems and is sure to deliver tons of pure fun.

Be honest: who really likes to read manuals? We know you want to get started right away, but it is only after reading these instructions that you will fully understand and be able to properly use all the features your DX626 has to offer. Take the time to read everything through!

- ◆ This manual first describes the terminology used, so that you can fully understand the DX626 and its functions. Please read the manual carefully and keep it for future reference.

1.1 Before you begin

Your DX626 was carefully packed in the factory and the packaging is designed to protect the unit from rough handling. Nevertheless, we recommend that you carefully examine the packaging and its contents for any signs of physical damage that may have occurred during transit.

- ◆ If the unit is damaged, please do NOT return it to BEHRINGER, but notify your dealer and the shipping company immediately. Otherwise claims for damage or replacement may not be granted.

To avoid overheating, ensure that there is enough space around the unit for cooling and that the device is not placed near other devices giving off heat.



Warning!

- ◆ We would like to point out that high volume may damage your hearing and/or your headphones. Please turn the MASTER control all the way to the left before turning on the device. Always make sure that the appropriate volume is set.

2. Control Elements

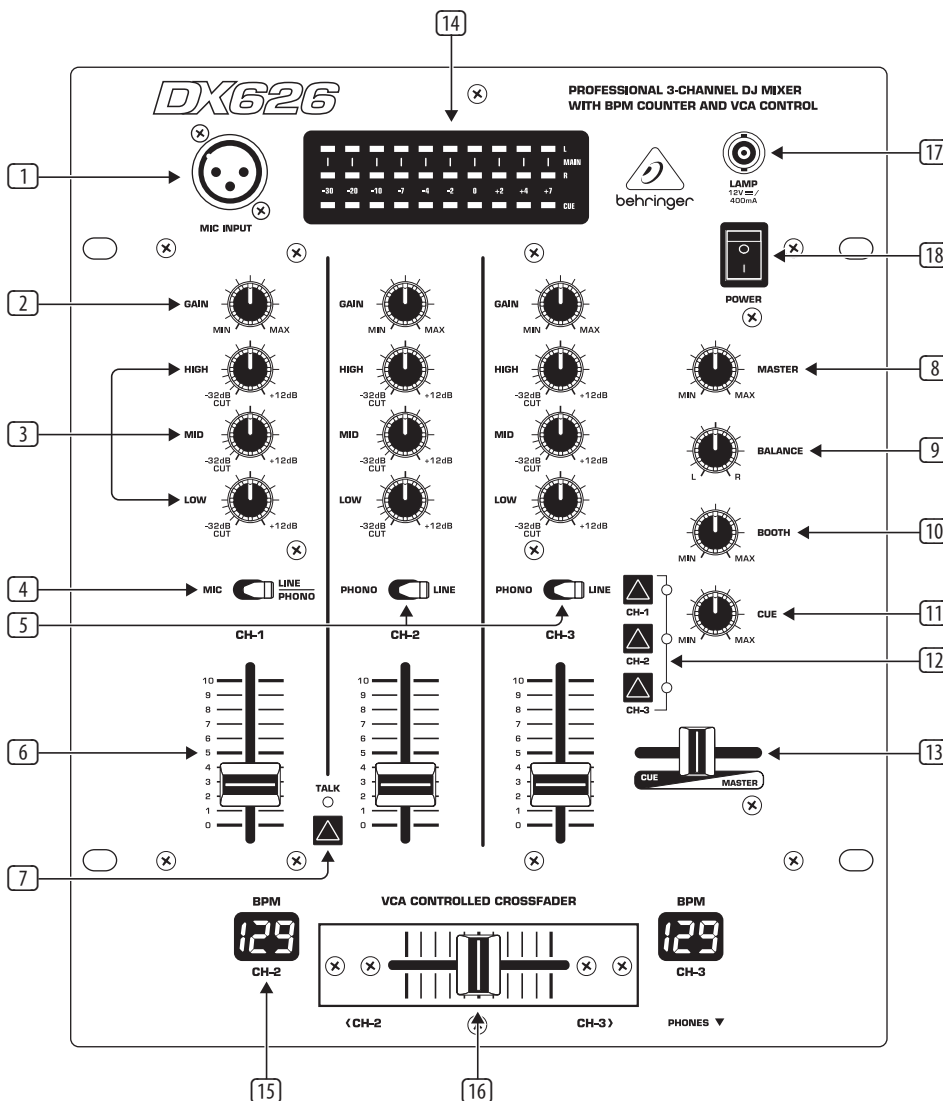


Fig. 2.1: The PRO MIXER DX626's front panel

2.1 Front panel

- ① The **MIC INPUT** is the balanced XLR connector for your dynamic microphone.
 - ② The **GAIN** control is used to line up the input signal of each channel.
 - ③ Each input channel has a 3-band equalizer (**HIGH, MID** and **LOW**) with kill characteristic. Thus, the signal can be lowered to a much greater extent (-32 dB) than it can be raised (+12 dB). This function can be very useful when, for example, fading a frequency range out of a music track.
- ♦ **The total level also depends on the EQ setting. Thus, you should adjust the equalizer before regulating the level with the GAIN control.**
- ④ The **MIC/LINE-PHONO** switch allows you to choose between the microphone signal and the line or phono signal on channel 1. The position of the rear panel PHONO/LINE switch (see ⑳) determines whether the input is switched to the phono or the line level setting of the right-hand switch position.
 - ⑤ On channels 2 and 3 you determine the input signals with the **PHONO/LINE** switch. "Phono" is intended for connecting a turntable. "Line" must be selected for all other signal sources (e. g. CD or MD players).
- ♦ **Never connect devices with line level to the highly sensitive phono inputs! The output level of phono pick-up systems is measured in millivolts, whereas CD players and tape decks have levels measured in volts, i.e. the level from line signals is up to 100 times higher than that of the phono inputs.**
- ⑥ Adjust the channel volume with the **CHANNEL** fader.
 - ⑦ The PRO MIXER has a talkover function. This feature is actually quite simple: by pushing the **TALK** button, the signal of the other input channels is lowered (**TALK** LED lights up), enabling your voice to be heard more clearly over the microphone.
 - ⑧ The **MASTER** control determines the output volume at the MASTER output (see ⑳).
 - ⑨ A **BALANCE** control for the MASTER output is for shaping the stereo image.
 - ⑩ The **BOOTH** control determines the output volume at the BOOTH output (see ㉑).
 - ⑪ The **CUE** control determines the volume of the headphones signal (PFL signal).
- ♦ **The PFL signal is your headphones signal. It enables you to preview music without affecting the MASTER signal. The headphone channel signal is taken pre-fader (PFL = Pre-Fader Listening).**

- ⑫ With the three buttons **CH-1, CH-2** and **CH-3**, you determine the signal source for the headphones signal. You can preview the channels individually or listen to all three simultaneously.
- ⑬ The **MASTER/CUE** fader allows you to control the volume ratio between the input channels' signal and the MASTER signal on your headphones.
- ⑭ Here you can read the volume level of the PFL and MASTER signals from three, 10-character LED displays. The lower LED chain displays the PFL signal and the two upper LEDs display the right and left MASTER signals.
- ⑮ The PRO MIXER DX626 BPM counter is an extremely useful feature. It ensures smooth transition from one track to the next, making your session an absolute success. It can calculate the various tempi of tracks in BPM (Beats Per Minute). The left display indicates the tempo on channel 2 and the right display shows the tempo on channel 3.
- ⑯ The **CROSSFADER** is for crossfading between channels 2 and 3.
- ⑰ This is the connector for a commercially available 12-volt BNC lamp.
- ⑱ Turn on the DX626 with the **POWER** button.

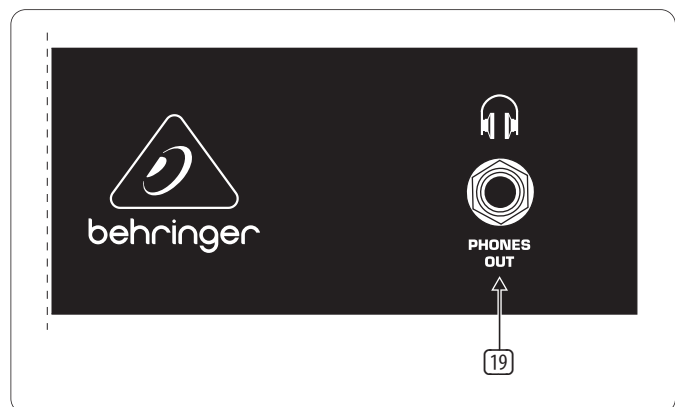


Fig. 2.2: Headphones connector

- ⑲ The **HEADPHONES** connector enables you to preview pieces of music (PFL signal) on your headphones. Your headphones should have a minimum impedance of 32 ohms.

2.2 Rear panel

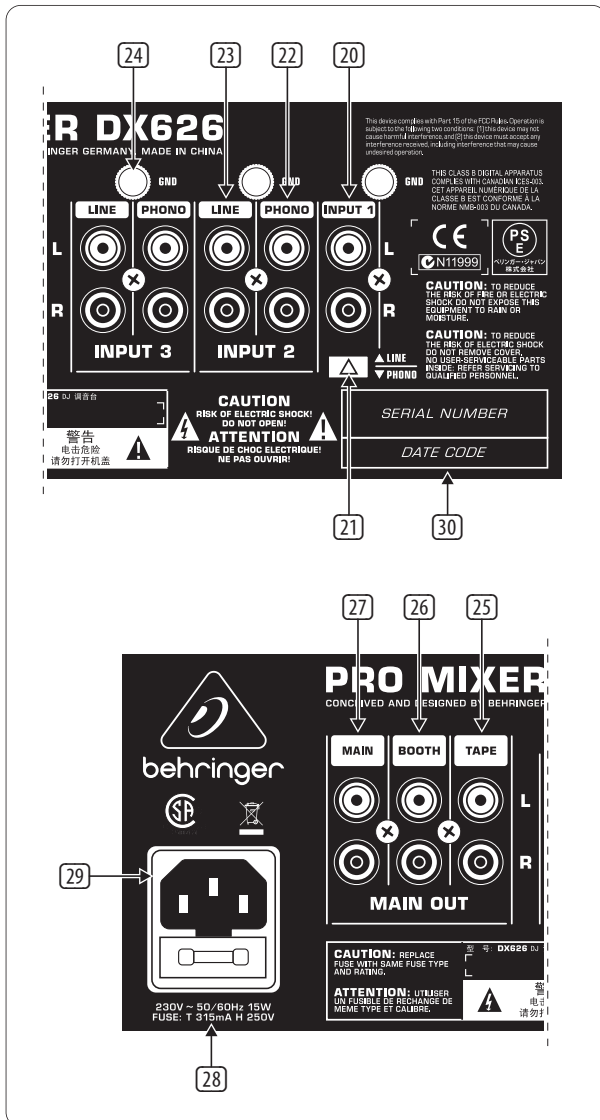


Fig. 2.3: The DX626 rear connectors

With the exception of the microphone and headphone connectors, the PRO MIXER DX626 only has cinch jacks, which can be found on the rear panel of the console.

- 20 This is the **INPUT 1** input for channel 1. It can be switched to phono or line input sensitivity.
- 21 With the **PHONO/LINE** switch at the channel 1 input you can choose between LINE and PHONO input. However, in order to do that, the MIC/LINE-PHONO switch on the front panel must be switched to LINE-PHONO (see 4).

- 22 The **PHONO** inputs from channels 2 and 3 are also for connecting turntables.
- 23 These are the **LINE** inputs from channels 2 and 3 for connecting tape decks, CD or MD players etc.
- 24 The **GND** connectors ground the turntables.
- 25 Using the **TAPE** output you can record your music by connecting devices such as tape decks, DAT recorders etc. Unlike the MASTER and BOOTH outputs, the output volume is fixed, making it necessary for you to adjust the input level on the recording device.
- 26 The **BOOTH** output gives you another possible way to connect an amplifier. It is controlled by the BOOTH control on the front panel. Through this output you can operate monitor speakers or even provide another area with sound.
- 27 The **MASTER** output is for connecting an amplifier and is adjusted using the MASTER control.
- Always turn the power amps on last to avoid inrush currents that can easily damage your speakers. And, to avoid sudden and unpleasant surprises for your ears, make sure there is no signal at the DX626 before turning on the power amps. To be sure, slide all the faders to the bottom and switch all controls to zero.
- 28 This is the connector for the power cable. This is where the advantage of the sophisticated internal power supply can be seen: the pulse behaviour of each amplifying circuit is mainly determined by the voltage reserves available. Each mixing console is equipped with numerous operational amplifiers (op amps) to process line level signals. Due to limited output of their power supplies, many mixing consoles show signs of "stress" when subjected to heavy loads. But not your DX400: the sound is always clear and transparent.
- 29 **FUSE HOLDER/VOLTAGE SETTING.** Before connecting the unit to the mains, ensure that the voltage setting matches your local voltage. Blown fuses should only be replaced by a fuse of the same type and rating. On some units, the fuse holder can be switched to one of two positions, i.e. 230 V and 115 V. N.B: should you desire to operate the unit outside Europe at 115 V, a higher fuse rating is required.
- 30 PRO MIXER DX626 **SERIAL NUMBER.** Please take the time to complete and return the warranty card within 14 days of the date of purchase.

3. Specifications

Audio Inputs

Mic	40 dB Gain, elec. balanced input
Phono 1, 2 and 3	40 dB Gain @ 1 kHz, unbalanced inputs
Line 1, 2 and 3	0 dB Gain, unbalanced inputs

Audio Outputs

Master	max. +21 dBu @ +10 dB (Line In)
Booth	max. +21 dBu @ +10 dB (Line In)
Tape	type. 0 dBu
Phones	type. 125 mΩ @ 1% THD

Equalizer (+/-8 dB)

Stereo Low	+12 dB/-32 dB @ 50 Hz
Stereo Mid	+12 dB/-32 dB @ 1.2 kHz
Stereo High	+12 dB/-32 dB @ 10 kHz
Mic Low	+12 dB/-32 dB @ 50 Hz
Mic Mid	+12 dB/-32 dB @ 1.2 kHz
Mic High	+12 dB/-32 dB @ 10 kHz

Talkover Button (MIC)	-16 dB
Lamp (BNC)	12 V/400 mA

General

Signal-to-noise ratio (S/N)	> 87 dB (Line)
Crosstalk	> 70 dB (Line)
Distortion (THD)	< 0.05%
Frequency response	20 Hz - 20 kHz
Gain control range	-16 dB - +6 dB

Power Supply

Mains Voltage	
USA / Canada	120 V ~, 60 Hz
U.K. / Australia	240 V ~, 50 Hz
Europe	230 V ~, 50 Hz
General Export Model	100 - 120 V ~, 200 - 240 V ~, 50/60 Hz
Power Consumption	max. 15 W
Fuse	100 - 120 V ~: T 500 mA L 250 V 200 - 240 V ~: T 315 mA L 250 V
Mains Connection	Standard IEC Receptacle

Dimensions/Weight

Dimensions (H x W x D)	approx. 3.6 x 10 x 12" approx. 91 x 254 x 305 mm
Weight	approx. 2.6 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Services US Inc.**
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Phone/Fax No.: **Phone: +1 425 672 0816
Fax: +1 425 673 7647**

PRO MIXER DX626

complies with the FCC rules as mentioned in the following paragraph:

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 and, if not installed and used in accordance with the instructions, 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.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.



We Hear You