

## User Manual



# PRO MIXER DJX900USB

Professional 5-Channel DJ Mixer with infinium  
 "Contact-Free" VCA Crossfader, Advanced Digital Effects  
 and USB/Audio Interface

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## Thank you

Your purchase of the BEHRINGER PRO MIXER DJX900USB has put you at the forefront of today's trends in DJ mixing consoles. Numerous features, such as beat counter, insert loop and digital effects processor, enable you to work in completely new and creative ways. The DJX900USB is a mixer for professional use, it is extremely easy to operate and it helps you give free rein to your creativity.

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 DJX900USB has to offer.

Take the time to read everything through!

## 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.



injury from tip-over.

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

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

### § 1 Warranty

- 1 This limited warranty is valid only if you purchased the product from a MUSIC Group Authorized Reseller in the country of purchase. A list of authorized resellers can be found on BEHRINGER's website behringer.com under "Where to Buy", or you can contact the MUSIC Group office closest to you.
- 2 MUSIC Group\* warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of one (1) year from the original date of purchase (see the Limited Warranty terms in § 4 below), unless a longer minimum warranty period is mandated by applicable local laws. If the product shows any defects within the specified warranty period and that defect is not excluded under § 4, MUSIC Group shall, at its discretion, either replace or repair the product using suitable new or reconditioned product or parts. In case MUSIC Group decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., one (1) year (or otherwise applicable minimum warranty period) from the date of purchase of the original product.
- 3 Upon validation of the warranty claim, the repaired or replacement product will be returned to the user freight prepaid by MUSIC Group.
- 4 Warranty claims other than those indicated above are expressly excluded.

PLEASE RETAIN YOUR SALES RECEIPT. IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. THIS LIMITED WARRANTY IS VOID WITHOUT SUCH PROOF OF PURCHASE.

### § 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase at behringer.com under "Support" and kindly read the terms and conditions of our limited warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

### § 3 Return materials authorization

- 1 To obtain warranty service, please contact the retailer from whom the equipment was purchased. Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under

“Support” at behringer.com. If your country is not listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product. All inquiries must be accompanied by a description of the problem and the serial number of the product. After verifying the product’s warranty eligibility with the original sales receipt, MUSIC Group will then issue a Return Materials Authorization (“RMA”) number.

② Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by MUSIC Group.

③ Shipments without freight prepaid will not be accepted.

#### § 4 Warranty Exclusions

① This limited warranty does not cover consumable parts including, but not limited to, fuses and batteries. Where applicable, MUSIC Group warrants the valves or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase.

② This limited warranty does not cover the product if it has been electronically or mechanically modified in any way. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. This limited warranty does not cover any such modification/adaptation, regardless of whether it was carried out properly or not. Under the terms of this limited warranty, MUSIC Group shall not be held responsible for any cost resulting from such a modification/adaptation.

③ This limited warranty covers only the product hardware. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided “AS IS” unless expressly provided for in any enclosed software limited warranty.

④ This limited warranty is invalid if the factory-applied serial number has been altered or removed from the product.

⑤ Free inspections and maintenance/repair work are expressly excluded from this limited warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, guitar strings, illuminants and similar parts.

⑥ Damage/defects caused by the following conditions are not covered by this limited warranty:

- improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;

- connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- damage/defects caused by acts of God/Nature (accident, fire, flood, etc) or any other condition that is beyond the control of MUSIC Group.

⑦ Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the limited warranty.

⑧ If an inspection of the product by MUSIC Group shows that the defect in question is not covered by the limited warranty, the inspection costs are payable by the customer.

⑨ Products which do not meet the terms of this limited warranty will be repaired exclusively at the buyer’s expense. MUSIC Group or its authorized service center will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, MUSIC Group will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

⑩ MUSIC Group Authorized Resellers do not sell new products directly in online auctions. Purchases made through an online auction are on a “buyer beware” basis. Online auction confirmations or sales receipts are not accepted for warranty verification and MUSIC Group will not repair or replace any product purchased through an online auction.

#### § 5 Warranty transferability

This limited warranty is extended exclusively to the original buyer (customer of authorized reseller) and is not transferable to anyone who may subsequently purchase this product. No other person (reseller, etc.) shall be entitled to give any warranty promise on behalf of MUSIC Group.

#### § 6 Claim for damage

Subject only to the operation of mandatory applicable local laws, MUSIC Group shall have no liability to the buyer under this warranty for any consequential or indirect loss or damage of any kind. In no event shall the liability of MUSIC Group under this limited warranty exceed the invoiced value of the product.

#### § 7 Limitation of liability

This limited warranty is the complete and exclusive warranty between you and MUSIC Group. It supersedes all other written or oral communications related to this product. MUSIC Group provides no other warranties for this product.

#### § 8 Other warranty rights and national law

① This limited warranty does not exclude or limit the buyer’s statutory rights as a consumer in any way.

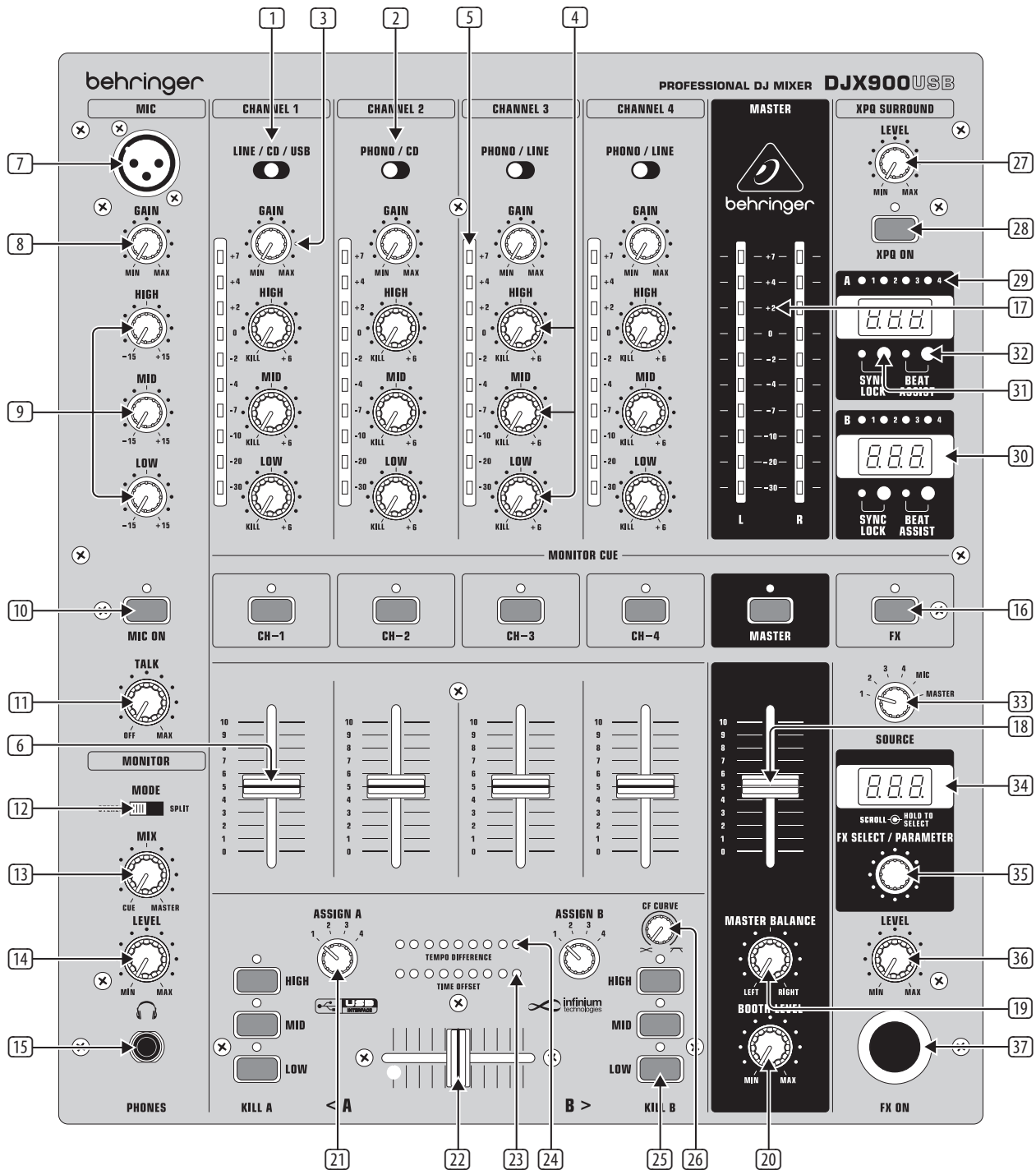
② The limited warranty regulations mentioned herein are applicable unless they constitute an infringement of applicable mandatory local laws.

③ This warranty does not detract from the seller’s obligations in regard to any lack of conformity of the product and any hidden defect.

#### § 9 Amendment

Warranty service conditions are subject to change without notice. For the latest warranty terms and conditions and additional information regarding MUSIC Group’s limited warranty, please see complete details online at behringer.com.

\* MUSIC Group Macao Commercial Offshore Limited of Rue de Pequim No. 202-A, Macau Finance Centre 9/J, Macau, including all MUSIC Group companies



## 1. Stereo Channels 1 to 4

- 1 Use the **LINE/CD/USB** switch to select the input signal for channel 1. Unlike other channels, channel 1 features two line inputs and the USB input.
- 2 You determine the input signals for the channels 2 to 4 with the **PHONO/CD** i. e. PHONO/LINE switch (channels 3 and 4). "Phono" is intended for connecting a turntable. "Line" i. e. "CD" must be selected for all other signal sources (e. g. CD or MD players). The input sensitivity of the phono input can be switched to line level, allowing utmost flexibility (see 41).

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.

- 3 The **GAIN** control in the CHANNEL section is used to adjust the level of the input signal. The level meter 5 reads the input level.
- 4 Each of the input channels features a 3-band equalizer (**HI**, **MID** and **LOW**) with kill characteristic. Thus, the signal can be attenuated to a much greater extent (-32 dB) than it can be raised +6 dB. This function can be very useful when, for example, fading a frequency range out of a music track.
- ♦ The overall level also depends on the EQ setting. Thus, you should adjust the equalizer before setting the input gain with the **GAIN** control.
- 5 The 10-digit **LED** chains display the signal level of the input signals.
- 6 Adjust the channel volume using the **CHANNEL** fader.

## 2. Microphone Channel

- ⑦ The **MIC IN** connector is the balanced XLR input for your dynamic microphone.
- ⑧ Set the volume of the microphone signal with the **GAIN** control in the MIC section.
- ⑨ There is a 3-band equalizer (**HI**, **MID** and **LOW**, no kill characteristic) in the microphone section. This allows you to fine-tune your voice to adapt perfectly to your sound.
- ⑩ Activate the microphone channel using the **MIC ON** switch. The channel is active when the corresponding LED is lit.
- ⑪ The DJX900USB is equipped with a talkover function, which works very simply: if you speak into the microphone while a track is running, the volume of the music is automatically reduced, so that your voice is always “in front”. The **TALK** control allows you to determine how much the music volume is lowered (max. -24 dB). This function can come in handy when your own voice needs to be prominently heard, as in when making an announcement etc.

## 3. Monitor Section

The **MONITOR** signal is your headphones signal, allowing you to listen to music without affecting the **MASTER** output signal.

- ⑫ When the **MODE** switch is in the “Split” position, channel PFL is located on the left side of the headphones, while the **MASTER** signal is on the right side. In this case, the **MIX** control (see below) serves no function. While in “Stereo” mode, you can use the **MIX** control to alternate between **MASTER** signal and PFL.
- ⑬ When in “Stereo” mode, the **MIX** control lets you determine which signal can be heard via the headphones. When the control is turned to its left-most position (**CUE**), you hear the PFL signal only; when the control is turned to its right-most position, you hear the **MASTER** signal only. Alternating the **MIX** control between the two end positions lets you determine the relative ratio between the two signals in your headphones.
- ⑭ The **LEVEL** control determines the volume of the headphones signal.
- ⑮ Connect your headphones using the **PHONES OUT** stereo connector. Your headphones should have a minimum impedance of 32 Ohms.
- ⑯ To select the PFL signal for the headphones, use the **MONITOR CUE** keys (**CH-1** to **CH-4**, **MASTER**, **FX**). You can also select multiple signal sources and listen to them simultaneously. LEDs on corresponding keys are lit when a channel is routed to the headphones.

## 4. Master Section

- ⑰ The **LEVEL METER** displays the level of the **MASTER** signal.
- ⑱ The **MASTER** fader allows you to adjust the output volume at the **MASTER** output (see ④④).
- ⑲ The **MASTER BALANCE** control for the **MASTER** output is for setting the stereo image.
- ⑳ The **BOOTH LEVEL** control adjusts the output level of the **BOOTH** output (see ④⑤).

## 5. Crossfader Section

- ㉑ **ASSIGN A** and **ASSIGN B** selectors let you determine which input signals are routed to **CROSSFADER** sides A and B. You can also alternate between these two signals by using the **CROSSFADER** (see below).
- ㉒ The **CROSSFADER** is used to fade between the channels you have selected (see ㉑).
- ㉓ The **TIME OFFSET LED** indicates the synchronization of tracks (see chapter 2.7).
- ㉔ The **TEMPO DIFFERENCE LED** displays tempo differences between the tracks (see chapter 2.7).
- ㉕ A 3-band kill switch is available for use with both the left and the right side of the crossfader (**KILL A** and **KILL B** respectively). Kill switches are used to lower three separate frequency ranges (**LOW**, **MID** and **HIGH**) up to -32 dB. When using the kill switch, the equalizer of ordinary DJ mixers usually loses its functionality. Not the case with the DJX900USB: the EQs can be used to achieve an even more pronounced lowering of a particular frequency range.
- ㉖ The **CF CURVE** control lets you alter the control characteristic of the crossfader between a smooth blend to a steep cut in an infinite number of steps. When set to smooth blend (far left), one source fades in gradually while the other fades out at the same rate. When set to steep cut (far right), the sources quickly fade in and out at the far edges of the crossfader's range. For example, with the **CF CURVE** knob set to the far right and the crossfader set to the far left, only source A is audible. As the crossfader moves to the right, source B quickly fades to full volume. Both sources remain at full volume for most of the middle range until source A quickly fades out just before the crossfader reaches its far right position.

## 6. XPQ 3D Surround Effect

The **XPQ 3D** surround function is a built-in effect that puts the finishing touch to your music and turns every gig into a real experience. The widening of the stereo base makes for a livelier, more transparent sound. You can determine the intensity of the effect by using the **SURROUND** control ㉗, while the **XPQ ON** switch ㉘ turns the **XPQ** effect on (the respective LED is lit).

## 7. Auto BPM Counter

The integrated auto BPM counter is an extremely useful feature. It ensures smooth transition from one track to the next, taking a lot of the guesswork out. It can calculate the various tempos of tracks in bpm (beats per minute). Both **BPM** counter sections are identical and both show the **BPM** value of the two signals routed to the crossfader. The LEDs located above the **DISPLAYS 1 - 4** ㉙ indicate which of the four input channels are routed to the respective **BPM** counter.

The tempo of the track assigned by using the **ASSIGN A** or **ASSIGN B** keys is shown in the respective **Display** ㉚. Several tempo changes in one track would produce a constant display of various **BPM** values and thus lead to unnecessary confusion. That's why the beat counter sections each have a **SYNC LOCK** button ㉛ that can be used during the song to limit the range of possible tempo values. This makes sense if the counter has already calculated a realistic value. You can do the same thing manually with the **BEAT ASSIST** button ㉜. Pushing this button at least three times in sync with the song's tempo results in the calculated tempo appearing in the **DISPLAY**. The **Beat Assist** and **SYNC LOCK** buttons are each equipped with a LED.

When you have limited the tempo of the tracks on both channels with the SYNC LOCK or BEAT ASSIST buttons, the difference in tempo from both channels is illustrated in the form of a nine-character message on the TEMPO DIFFERENCE-LED (24). The extent of the difference in tempo is indicated by a corresponding swing to the right (signal A is slower) or to the left (signal B is slower). When the middle LED lights up, the tempi are the same. The TIME OFFSET LED (23) below that displays the signal A and B synchronisation. Should the middle LED light up, the tracks are synchronised. Should the display move to the left or right, the channels are not synchronised. The TEMPO DIFFERENCE and TIME OFFSET displays are only active if the tempi of both channels have been fixed in one of the ways described.

- ◆ When no signal is present (or when the signal level is too low), the BPM display shows only dashes. When the signal is present but can not be identified, the display shows 160 BPM and then shows the said dashes. The beat counter then attempts to get another readout. Therefore, "160" BPM is no usable value; rather, it is simply an error message when the signal can not be analyzed.

To exit the SYNC LOCK or BEAT ASSIST modes, simply push the SYNC LOCK button once more on both channels.

## 8. Internal Effects Processor

### 8.1 Presets of the multi-effects processor

Grp	No.	Effect	Type	Adjustable Parameter
1	0	Filter Sweep	LP	Frequency
	1	Filter Sweep	BP	Frequency
	2	Filter Sweep	HP	Frequency
	3	Auto Filter (Envelope)	LP	Sensitivity
	4	Auto Filter (Envelope)	BP	Sensitivity
	5	Auto Filter (Envelope)	HP	Sensitivity
	6	LFO Filter	LP	LFO Rate
	7	LFO Filter	BP	LFO Rate
2	0	Bitcrusher	—	Depth
	8	LFO Filter	HP	LFO Rate
3	0	Flanger	Gate/Pan	LFO Rate
	1	Flanger	Standard (Full Res)	LFO Rate
	2	Flanger	Standard (Half Res)	LFO Rate
	3	Flanger	Ultra	LFO Rate
4	0	Delay	1/1	Delay Time (related to BPM)
	1	Delay	3/4	Delay Time (related to BPM)
	2	Delay	1/2	Delay Time (related to BPM)
5	0	Echo	1/1	Delay Time (related to BPM)
	1	Echo	3/4	Delay Time (related to BPM)
	2	Echo	1/2	Delay Time (related to BPM)
6	0	Reverb	Big Plate	Reverb Time (Decay)
	1	Reverb	Small Chamber	Reverb Time (Decay)
	2	Reverb	Bright Room	Reverb Time (Decay)
	3	Reverb	Voice Widener	Tone
	4	Reverb/Delay	Big Plate + Delay	Delay Time (related to BPM)

Grp	No.	Effect	Type	Adjustable Parameter
7	0	Phase Shifter	4	LFO Rate
	1	Phase Shifter	Fall	LFO Rate
	2	Phase Shifter	Rise	LFO Rate
8	0	Panning	Panning	LFO Rate
	1	Panning	Tremolo	LFO Rate
9	0	Sim/Dyn	Ultrabass	Frequency
	1	Sim/Dyn	Ultrafex	Frequency
	2	Sim/Dyn	Voice Changer	Distortion

The DJX900USB features an internal digital effects processor into which you can feed your master signal, the signals of the input channels or the mic signal. The module provides a number of standard effects, such as reverb, delay and echo, as well as various filter and modulation effects.

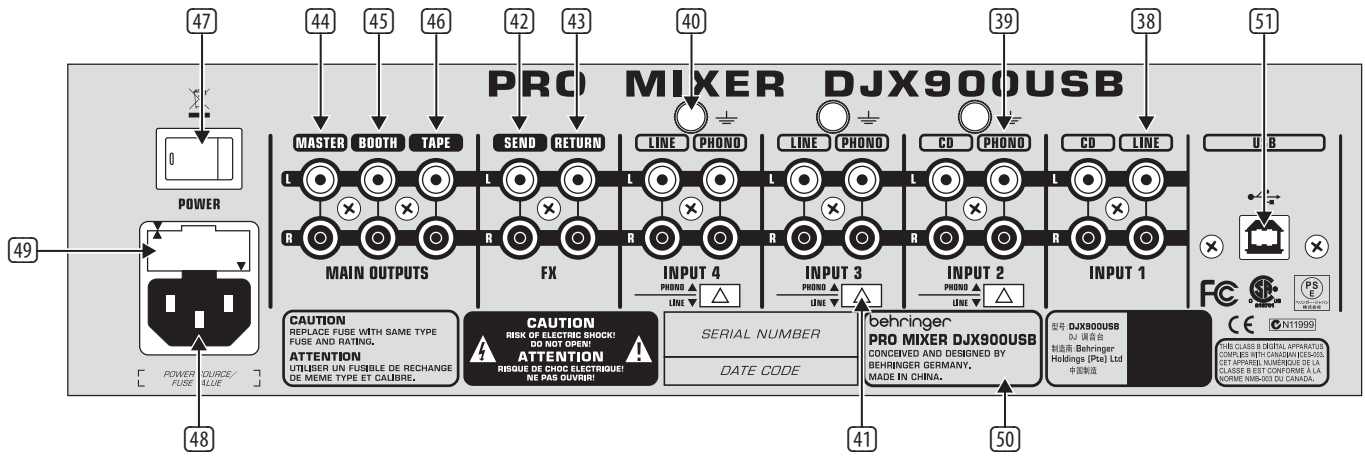
- To select the signal to be processed, use the SOURCE selector (33).
- Turn the PROGRAM control (35) to select an effect. The corresponding program number appears on the PROGRAM display (34).
- Press and hold the PROGRAM control for about 2 seconds to load the selected preset.
- When the new effect has been loaded, turn the PROGRAM control (35) to change the effect's parameters. The parameter value is shown on the display.
- ◆ View the table (column "Adjustable Parameter") to see which parameter of the selected effect can be modified.
- ◆ The parameter values of the delay and echo effects are displayed in BPM (beats per minute). The selectable range is from 80 to 160 BPM. The display only shows two digits and so values of 100 and above are represented with a dot behind the number (for example, 120 BPM is displayed as "20.").
- Use the LEVEL control (36) to determine the volume level of the effect signal.
- Activate the effect signal by pressing the FX ON switch (37).

Press the PROGRAM control one more time to use it for selecting effects again.

## 9. Connections

### 9.1 Rear panel connectors

- (38) These are the **LINE** i. e. CD inputs to connect a tape deck, CD or MD player etc. Unlike other channels, channel 1 features two line inputs.
- (39) The **PHONO** inputs for channels 2 to 4 are for connecting a turntable.
- (40) The  $\perp$  connectors ground the turntables.
- (41) With the **PHONO/LINE** switch it is possible to switch the input sensitivity of the PHONO inputs 2 to 4 to line level. This allows you to connect a tape deck or a CD player to the PHONO inputs.
- (42) The DJX900USB features an integrated effects loop for the connection of an external effects device. The MONITOR signal is taken at the **SEND** output and routed, for example, to a reverb processor. Thus, the signal at the SEND connector is identical to the headphones signal and is selected with the MONITOR CUE buttons (16).
- (43) The externally processed signal is added to the MASTER output signal via the **RETURN** connectors. The effect signal volume may only be adjusted at the output control of the effects device itself.



- 44 The **MASTER** output is for connecting to an amplifier and can be adjusted with the MASTER fader 18.
- ◆ 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 DJX900USB before turning on the power amps. To be sure, slide all the faders to the bottom and switch all controls to the zero position.
- 45 The **BOOTH** output gives you an additional option of connecting an amplifier in order to, for example, feed the signal into your monitors or to bring sound to an extra area. The BOOTH output level is regulated by using the BOOTH LEVEL control 20 of the MASTER section.
- 46 Using the **TAPE** output you can record your music by connecting devices such as tape decks, DAT recorders etc. Unlike the MASTER output, the output volume is fixed, making it necessary for you to adjust the input level on the recording device.
- 47 The **POWER** switch powers the DJX900USB on. You should always make sure that the POWER switch is in the "Off" position when initially connecting the unit to the mains.
- ◆ Merely switching the unit off does not mean that it is fully disconnected from the mains. When not using the unit for prolonged periods of time, please unplug the unit's power cord from the power outlet.
- 48 This is the connector for the power cable. This is where the advantage of a 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 DJX900USB: the sound is always clear and transparent.
- 49 **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 fuses holder can be switched to one of two positions, i.e. 230 V and 120 V. Please note: should you desire to operate the unit outside Europe at 120 V, a higher fuse rating is required.
- ◆ To disconnect power from main, pull out the main cord plug. When installing the product, ensure that the plug is easily accessible. If mounting in a rack, ensure that the mains can be easily disconnected by a plug or by an all-pole disconnect switch on or near the rack.
- 50 **SERIAL NUMBER.**
- 51 The DJX900USB has built-in **USB** connectivity, allowing stereo signals to be sent to and from the mixer and a computer. The audio sent from the mixer to a computer is identical to the TAPE signal. Audio being sent from a computer to the mixer can be selected with the Channel 1 LINE/CD/USB switch.
- ◆ Connect a USB type B plug into the USB jack on the mixer, and the other end into a free USB port on your computer. There are no required drivers, but we recommend that PC users install the included ASIO driver. The driver can also be downloaded from [behringer.com](http://behringer.com).

## 10. Initial Operation

- ◆ Ensure adequate air supply and to avoid overheating do not place the unit near radiators etc.
- ◆ Before you connect your unit to the mains, please make sure that your local voltage matches the voltage required by the unit. The fuse holder on the mains connector has 3 triangular markings, with two of these triangles opposing each other. The unit is set to the operating voltage printed next to these markers and can be set to another voltage by turning the fuse holder by 180°.



### Caution

Please note that when operating the unit at 120 V, a higher fuse rating is required. Please refer to the "Specifications" for details.

If you set the unit to a different mains voltage, be sure to use a fuse of the correct type and rating. Please refer to the "Specifications" for details.

- ◆ Blown fuses must be replaced by fuses of the correct rating! Please refer to the "Specifications" section for the applicable rating. Before you change the fuse, switch off the device and pull the plug to avoid electric shock or damage to the device.

The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all international safety certification requirements.

- ◆ Please make sure that all devices are properly grounded. For your own safety, never remove or disable the ground conductors from the devices or on the power cords. The unit must always be connected to the mains outlet with a protective grounding connection.
- ◆ The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.



## 11. Shipment

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries.

Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Your product was carefully packed at the factory to ensure safe transport. Nevertheless, if the box is damaged inspect the unit immediately for signs of damage.

- ◆ **If the unit is damaged please do NOT return it to us, but notify your dealer and the shipping company immediately; otherwise, claims for damage or replacement may not be granted.**
- ◆ **Always use the original box to prevent damage during storage or transport.**
- ◆ **Make sure that children cannot play unsupervised with the unit or its packaging.**

## 12. Online Registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

## 13. Specifications

### Audio Inputs

Mic	+40 dB gain, balanced XLR
Phono in	+40 dB gain, unbalanced
Line in	0 dB gain, unbalanced
CD in	0 dB gain, unbalanced
Return	0 dB gain, unbalanced

### Audio Outputs

Master	Max. +21 dBu
Booth	Max. +21 dBu
Tape	0 dBu
Send	0 dBu
Phones out	Max. 180 mW @ 75 Ω / 1% THD

### Equalizer

Stereo low	+8 dB / -27 dB @ 50 Hz
Stereo mid	+6 dB / -23 dB @ 1.2 kHz
Stereo high	+9 dB / -15 dB @ 10 kHz
Mic low	+15 / -15 dB @ 80 Hz
Mic mid	+15 / -15 dB @ 2.5 kHz
Mic high	+15 / -15 dB @ 12 kHz
Kill low	-54 dB @ 50 Hz
Kill mid	-43 dB @ 1 kHz
Kill high	-25 dB @ 10 kHz

### USB

Audio	Stereo In / Out
Connector	Type B
Sample rate	48 kHz

### Digital Effects Processor

DSP	Freescale
A/D-D/A converter	24-bit Delta-Sigma, 64/128-times oversampling
Sampling rate	46.875 kHz

### System Specification

Signal-to-noise ratio	>80 dB (line)
Crosstalk	>70 dB (line)
Distortion (THD)	<0.03%
Frequency response	10 Hz - 40 kHz, +0/-3 dB

### Power Supply

Power consumption	32 W
Mains connection	Standard IEC receptacle

### Mains Voltages

Europe/UK/Australia/ Korea/China	220-230 V~, 50/60 Hz
UL	120 V~, 60 Hz
JP	100 V~, 50/60 Hz

### Fuse

100-120 V~	T1AH 250V
220-230 V~	T500mAH 250V

### Physical

Dimensions (H x W x D)	4.2 x 12.6 x 14.6" / 107 x 320 x 370 mm
Weight	8.2 lbs / 3.7 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.



We Hear You