



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for BEHRINGER DX100. You'll find the answers to all your questions on the BEHRINGER DX100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

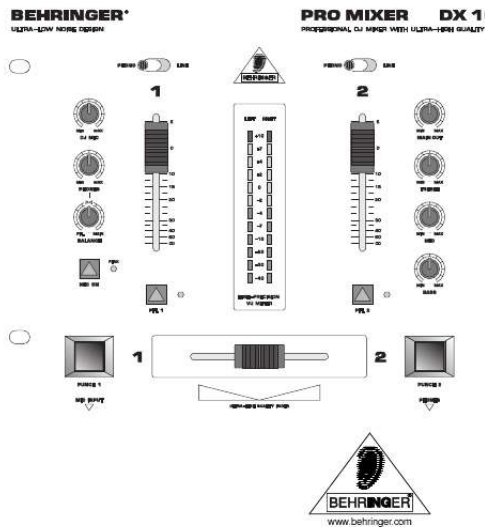
User manual BEHRINGER DX100  
User guide BEHRINGER DX100  
Operating instructions BEHRINGER DX100  
Instructions for use BEHRINGER DX100  
Instruction manual BEHRINGER DX100

**DX100**

**PRO MIXER**

User's Manual **E**  
Bedienungsanleitung **D**

Version 1.1 July 2000



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*. 7 2. DX100 OVERVIEW .....*

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*5 Highly accurate Main / PFL Peak - reading bargraph meters .....*

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*... How will YOU use YOUR DX100? ..*

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*..... PSU (Power Supply Unit) ...*

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... *Warranty* .

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*10 6. HEADPHONES, MONITORS & PFL ....*  
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*. 11 6.1 PFL : Pre-Fader listening ...*  
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*... 11 6.2 Headphones - read carefully! .....*

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*CONNECTIONS .....*

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. 16 10. WARRANTY .....

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1/4" jack socket, tip = hot (+ve), ring = cold (-ve) and sleeve = ground/screen. Phones. 1/4" jack socket, tip = left signal, ring = right signal and sleeve = ground/screen.

Phono inputs. RCA sockets. Line inputs. RCA sockets. Main outputs.

RCA sockets. Tape outputs. RCA sockets. + Please ensure that only qualified persons install and operate the PRO MIXER DX100. During installation and operation the user must have sufficient electrical contact to earth. Electrostatic charges might affect the operation of the PRO MIXER DX100! 6.

HEADPHONES, MONITORS & PFL 11 7.2 Plug soldering guide You will need a lot of cables for different purposes - see the following figures to make sure you have got the right ones. Use custom-made RCA cables for all connections which use RCA sockets (centre post = signal (+ve) and sleeve = ground/screen). Unbalanced use of mono 1/4" jack plugs Tip = Signal Balanced use of stereo 1/4" jack plugs Tip = hot (+ve) Ring = cold (-ve) Sleeve = Ground / Shield Sleeve = Ground / Shield Tip Sleeve Strain relief clamp Tip Ring Sleeve Strain relief clamp For connection of balanced and unbalanced plugs, ring and sleeve have to be bridged at the stereo plug.

Balanced use with XLR connectors 2 1 3 1 = Ground / Shield 2 = hot (+ve) 3 = cold (-ve) 1 2 3 Output Input For unbalanced use pin 1 and pin 3 have to be bridged Fig. 7.1: Un-/balanced jack plugs and balanced XLR connectors 12 7. CONNECTIONS E Fig. 7.2: Headphones connector 8. GLOSSARY Ambient Music atmospheric/lacking in a strong beat (e.g. can be played with a drum track, can be rhythmically gated etc.) Balance relative levels of left/right in a stereo pair, usually controlled by a panoramic potentiometer (panpot) BPM Beats Per Minute Channel input strip on a mixing desk Clip, Clipping overload, severe distortion Compressor device or program for limiting dynamic range (increasing energy) Cross fader fades in one music track while simultaneously fading out another Cue headphone feed Cueing getting music ready to come in at pre-arranged point Cut Switch silences audio dB (decibel) a unit of measurement, ratio of two voltages ( $\text{dB} = 20 \log (V1/V2)$ ), (dBu = voltage ratio relative to 0.

775 V RMS) DI (Direct Injection) connecting an electric instrument directly to the console via a DI-Box, converting the high level unbalanced signal (from the instrument) into a low level balanced signal (for the console) DJing sequencing music tracks e.g. for dancing audience Drum machine electronic drum instrument Echo device or program for adding repeats Effects (abbr. FX or EFX) devices that alter the original ('dry') sound or add something to it, e.g. delay 8. GLOSSARY 13 Equalizing the use of filters for cutting or boosting selected frequencies Exciter/Enhancer device or program for improving treble and bass intelligibility Expander (see Noise Gate) Fader linear potentiometer with logarithmic response Feedback (howlround) unstable circuit (e.g. mic/speaker, input/output) where a signal is able to return to an input from an output, causing successive cycles of progressively higher gain (avoid it by e.g. not using a mic close to a speaker driven from the mic's own signal) Filter device or program for adding or removing removing part of frequency bandwidth e.g. for dramatic effect Flanger/Chorus device or program for adding short modulated echoes Gain degree of amplification Headroom signal range between nominal level and clipping Incoming (cue) track music being auditioned prior to being played Kill Switches switches for removing frequency bands Limiter (see Compressor) Line level signals from low impedance sources (-10 to +6 dBu) Lo(w) Cut (= High Pass) Filter cuts off low frequencies MCing adding dialog to a sequence of music MIDI Musical Instrument Digital Interface - the language used by 99% of all electronic musical devices and programs Mixdown process by which a multitrack recording is combined into e.g. one or two channels Mixing segueing music to form continuous flow Mute (to engage) button for signal muting Mute Switch (see Cut Switch) Noise Gate device or program for auto-muting Normal connect an output to an input via breakable link Outgoing (mix) track music currently playing Parametric EQ EQ whose frequency can be swept e.g. for dramatic effect PFL Pre-Fader-Listen Phantom Power +48 V DC voltage for powering condenser mics Phase coherence degree to which L & R signal are synchronized Phase correlation degree of mono compatibility of L & R signal Pot or potentiometer a variable, usually rotary voltage driver used e.g. for gain, frequency, quality or bandwidth control 14 8. GLOSSARY Rapping adding dialog to a rhythmic track Recorder device or program for recording and playing back sounds (e.

g. tape, hard disk) Regeneration (see Feedback) Resonance fast feedback Reverb device or program for adding reverb Route signal path RPM Revolutions Per Minute Sampler device for digitally storing and playing back sound Scratching manually spinning vinyl discs e.g. backwards and forwards Sequencer device or program for recording and playing back compositions (see MIDI) Slipmat Fabric turntable mat which enables turntable to spin while DJ holds record stationary. Let go record for a fast start. Gets over problems of slow turntable start. Solo solo in place, stereo image retained Source signal source Spatial Enhancer psychoacoustic device or program for making stereo seem to come from beyond the area between the loudspeakers Synthesizer electronic musical instrument Tempo (see BPM) Transforming chopping up a music signal by using mutes or gates etc. Transient a transitory (extreme) rise in signal level Trimpot variable gain potentiometer Varispeed control for varying playback speed Wet signal mix signal with effects added E 8. GLOSSARY 15 9. SPECIFICATIONS INPUT CHANNELS Mic input Gain Frequency response THD S/N ratio Phono input Gain Frequency response THD S/N ratio Crosstalk Line input Gain Frequency response THD S/N ratio Crosstalk EQ Low Mid High CONNECTORS Main out Tape out POWER SUPPLY Mains Voltages

Electronically balanced, discrete input configuration +20 to +40 dB 10 Hz to 35 kHz, +/- 3 dB 0.

006 % typ. @ -20 dBu, 1 kHz > 78 dB unbalanced input 40 dB 20 Hz to 20 kHz, RIAA 0.01 % typ. @ -20 dBu, 1 kHz > 75 dB < -76 dB unbalanced input 0 dB 10 Hz to 62 kHz, +/- 3 dB 0.005 % typ.

@ +10 dBu, 1 kHz > 83 dB < -77 dB 50 Hz, +/- 10 dB 650 Hz, +/- 10 dB 10 kHz, +/- 15 dB 0 dB USA/Canada U.K./Australia Europe General Export Model 120 V ~, 60 Hz, PSU MXUL 2 240 V ~, 50 Hz, PSU MXEU 2 230 V ~, 50 Hz, PSU MXEU 2 100 - 120 V ~, 200 - 240 V ~, 50 - 60 Hz Power supply unit Model MXEU2 Model MXUL2 PHYSICAL Dimension (approx.) Net weight (without PSU) In: 230 V ~ / 50 Hz (100 mA) Out: 2 \* 18.5 V ~ (500 mA) In: 115 V ~ / 60 Hz (200 mA) Out: 2 \* 18.

5 V ~ (500 mA) 2.75" (70 mm) \* 10" (254 mm) \* 8" (203 mm) 1.7 kg BEHRINGER is constantly striving to maintain the highest professional standards.



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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 shown. 16 9. SPECIFICATIONS 10. WARRANTY § 1 WARRANTY CARD/ONLINE REGISTRATION To be protected by the extended warranty, the buyer must complete and return the enclosed warranty card within 14 days of the date of purchase to BEHRINGER Spezielle Studioteknik GmbH, in accordance with the conditions stipulated in § 3. Failure to return the card in due time (date as per postmark) will void any extended warranty claims. Based on the conditions herein, the buyer may also choose to use the online registration option via the Internet (www.

behringer.com or www.behringer.de). § 2 WARRANTY 1. BEHRINGER (BEHRINGER Spezielle Studioteknik GmbH including all BEHRINGER subsidiaries listed on the enclosed page, except BEHRINGER Japan) warrants the mechanical and electronic components of this product to be free of defects in material and workmanship for a period of one (1) year from the original date of purchase, in accordance with the warranty regulations described below. If the product shows any defects within the specified warranty period that are not due to normal wear and tear and/or improper handling by the user, BEHRINGER shall, at its sole discretion, either repair or replace the product. 2. If the warranty claim proves to be justified, the product will be returned to the user freight prepaid.

3.

Warranty claims other than those indicated above are expressly excluded. § 3 RETURN AUTHORIZATION NUMBER 1. @@All inquiries must be accompanied by a description of the problem. BEHRINGER will then issue a return authorization number. 2.

@@3. Shipments without freight prepaid will not be accepted. § 4 WARRANTY REGULATIONS 1. @@@@2. 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.

The warranty does not cover any such modification/adaptation, irrespective of whether it was carried out properly or not. Under the terms of this warranty, BEHRINGER shall not be held responsible for any cost resulting from such a modification/adaptation. 3. Free inspections and maintenance/repair work are expressly excluded from this 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, potentiometers, keys/buttons and similar parts. 4. Damages/defects caused by the following conditions are not covered by this warranty: s misuse, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals. s 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. s damages/defects caused by force majeure or any other condition that is beyond the control of BEHRINGER. 5.

Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the warranty. 6. If an inspection of the product by BEHRINGER shows that the defect in question is not covered by the warranty, the inspection costs are payable by the customer. 7. Products which do not meet the terms of this warranty will be repaired exclusively at the buyer's expense. BEHRINGER will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, BEHRINGER 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. § 5 WARRANTY TRANSFERABILITY This warranty is extended exclusively to the original buyer (customer of retail dealer) and is not transferable to anyone who may subsequently purchase this product. No other person (retail dealer, etc.) shall be entitled to give any warranty promise on behalf of BEHRINGER. § 6 CLAIM FOR DAMAGES Failure of BEHRINGER to provide proper warranty service shall not entitle the buyer to claim (consequential) damages.

In no event shall the liability of BEHRINGER exceed the invoiced value of the product. § 7 OTHER WARRANTY RIGHTS AND NATIONAL LAW 1. This warranty does not exclude or limit the buyer's statutory rights provided by national law, in particular, any such rights against the seller that arise from a legally effective purchase contract. 2. The warranty regulations mentioned herein are applicable unless they constitute an infringement of national warranty law.

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