



PowerMake 600 / 800 / 1200 Power Mixer



User Manual

Version: 05/2023

Thank you for choosing this product. To ensure that you are completely satisfied with this product, please read and understand this manual carefully.



PLEASE READ CAREFULLY

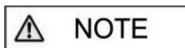
Please keep this manual in a safe place for future reference. Hand over all documents when passing on the product to third parties. Never leave children unattended with the packaging material. For products packed in plastic bags, there is a risk of suffocation from packaging materials. The product should only be used under adult supervision. Only use the product if it is in perfect condition. Do not use the product if damage is visible or suspected. We are not liable for any damage that occurs as a result of non-observance of the safety instructions or incorrect or improper handling.



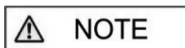
Follow the operating instructions!



The **WARNING** signal word identifies hazards that, without precautions, could result in serious injury.



The signal word **NOTE** indicates general precautions that should be observed when handling the product



Images and screen images in this manual may differ slightly from the actual product's appearance, as long as it does not adversely affect the technical characteristics and safety of the product.



All personal phrasing in this manual should be considered gender neutral.

This operating manual applies to responsible users and to persons who have been supervised or instructed in the operation of the device by a person responsible for their safety and who have proven that they are capable of handling the device.



**Children should be supervised to ensure that they do not use this device as a toy.
Never allow children to play unattended with the packaging material.**



Risk of damage to property! We are not liable for accidents that occur as a result of non-observance of the safety instructions or incorrect handling.

All information in this operating manual has been checked to the best of our knowledge and belief. However, neither the author nor the publisher can be held liable for any damages related to the use of this manual.

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 **WARNING**

Caution

Please observe the following basic instructions in order not to endanger yourself or others and to avoid damage to external devices.

 **NOTE**

Warnings

Do not disassemble or modify the product. This could result in injury from electric shock. If you notice that the power cord shows obvious signs of wear, the appliance is malfunctioning, smells burnt or smokes, immediately unplug the appliance from the wall outlet and refer servicing, maintenance or repair to an authorised service centre or your dealer.

Before cleaning the product, you should turn it off and disconnect it from the power supply. Always place the product on a flat, stable surface to ensure a secure stand.

Do not use the product in a damp or wet environment.

Do not place containers filled with liquids, such as vases, glasses or bottles, on the product.

Do not place small objects on top of it that could slide in, such as hairpins, sewing needles or coins.

 **NOTE**

Precautions


To avoid damage to the product, do not place it in places with high temperatures or a lot of dust, do not place it directly next to an air conditioner and avoid direct sunlight.

Do not place the article near other electrical equipment to avoid interference.

Do not use force when handling the product or place heavy objects on it.

Disconnect the power supply if you are not going to use the device for a longer period of time. To disconnect the power, pull the plug, not the cable.

Please handle the power cable with care. It should not be near radiators, do not place heavy objects on it and lay it in such a way that no persons can step on it or fall over it.

 **WARNING**

Mains voltage

If an external power supply unit is required for use, connect it to an outlet with the correct voltage.

Do not connect the device to a different mains voltage than that for which your product is intended.

Unplug the power cord from the wall outlet when not using the product or when there is a thunderstorm.

 **NOTE**

Place

Do not expose the product to the following conditions to avoid deformation, discoloration or major damage:

Direct sunlight, extreme temperature or humidity, excessively dusty or dirty place, strong vibrations or shocks, strong magnetic fields

 **NOTE**

Cleaning

Clean the product only with a soft, dry cloth. Do not use paint thinner, solvents, cleaning fluids or chemically impregnated wipes.

 **NOTE**

Handling

Do not exert excessive force on operating elements such as switches, knobs, buttons, and fastening screws.

Do not insert any paper, metal or other objects inside. If this happens, unplug the AC adapter/power cord from the wall outlet. Have the product checked by qualified service personnel.

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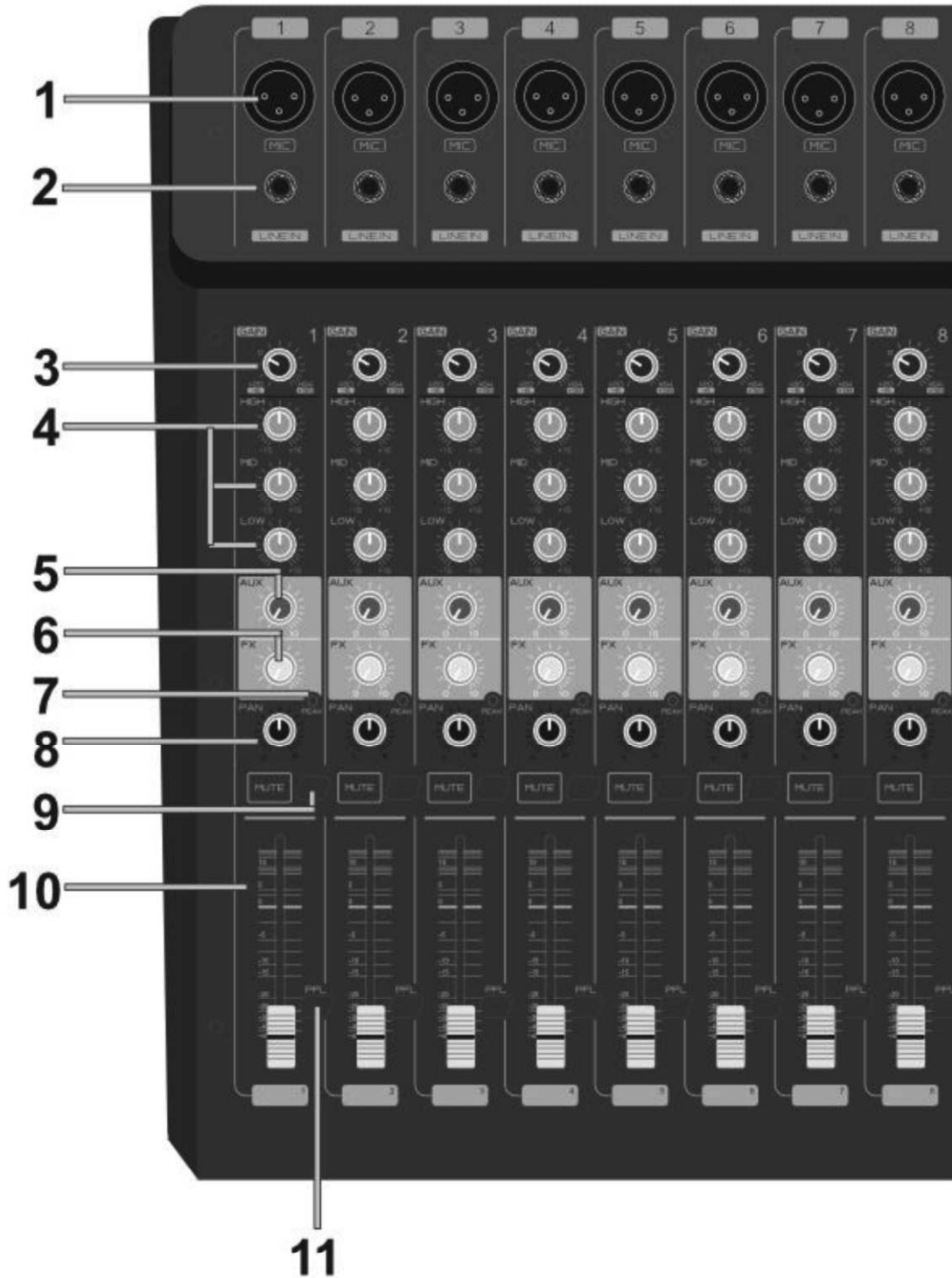
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1. Connections and controls

Front panel connectors and controls / channel strips



1 - Connection socket microphone

This connector is an XLR jack. XLR microphone cables can be connected to this jack. When phantom power is activated, this jack is supplied with 48V phantom power, e.g. to operate condenser microphones.

2 - Line connection socket

This connector is a 6.3mm balanced phone jack. Instrument cables can be connected to this jack.

3 - Gain control

This control determines the signal strength of the incoming signal. Turn the Gain knob clockwise to increase the signal strength and counterclockwise to decrease the signal strength. For the highest quality signal processing, it is recommended that the gain level be as high as possible. If the gain level is too high, the PEAK LED indicator for the respective channel will light up. In this case, reduce the gain level immediately. Please note that the PEAK LEDs should not light up during operation to avoid noise and damage. They only help to level and readjust the signal. If a PEAK LED lights up, reduce the respective gain level immediately.

4 - Knobs of 3-band EQ

The three EQ controls adjust the treble, midrange, and bass of the input signal. Turn the knob from the 12 o'clock position to the left to decrease the value and to the right to increase the value.

5 - AUX control of the respective channel strip

Turn the AUX knob clockwise to route the signal of the respective signal to the AUX bus of the mixer. Turn the knob clockwise to increase the signal amount and counterclockwise to decrease it. The signal is tapped in the respective channel AFTER the respective volume control (post-fader).

Turn the knob all the way to the left if you don't want to use the AUX bus, or don't want to feed it with the signal of the respective channel.

6 - FX control of the respective channel strip

Turn the FX knob clockwise to route the signal of the respective signal to the FX bus of the mixer. Turn the knob clockwise to increase the signal amount and counterclockwise to decrease it. The signal is tapped in the respective channel AFTER the respective volume control (post-fader).

Turn the knob all the way to the left if you don't want to use the FX bus, or don't want to feed it with the signal of the respective channel.

7 - PEAK LED

The PEAK LED indicates when the signal strength in the respective channel is too high. Please note that the PEAK LED of a channel should not light up during operation to avoid noise and damage. The PEAK LED only helps to level and

readjust the signal. If a PEAK LED lights up, immediately reduce the respective gain level. To do this, turn the gain control of the corresponding channel counterclockwise to reduce the signal strength.

8 - Pan control

When the Pan control is in its center position, the mono signal of the respective channel strip is passed on to the stereo sum of the mixer in equal parts (L+R Master control).

Turn the pan control clockwise from the center position to shift the signal of the respective channel to the right side of the stereo image (R master control). Turn the pan control counterclockwise from the center position to shift the signal of the respective channel to the left side of the stereo image (L master control).

9 - Mute button

Press Mute to mute the signal of the respective channel. The Mute button interrupts the signal flow to Main-Out, Aux, FX and Headphones.

10 - Volume control (fader) of the respective channel strip

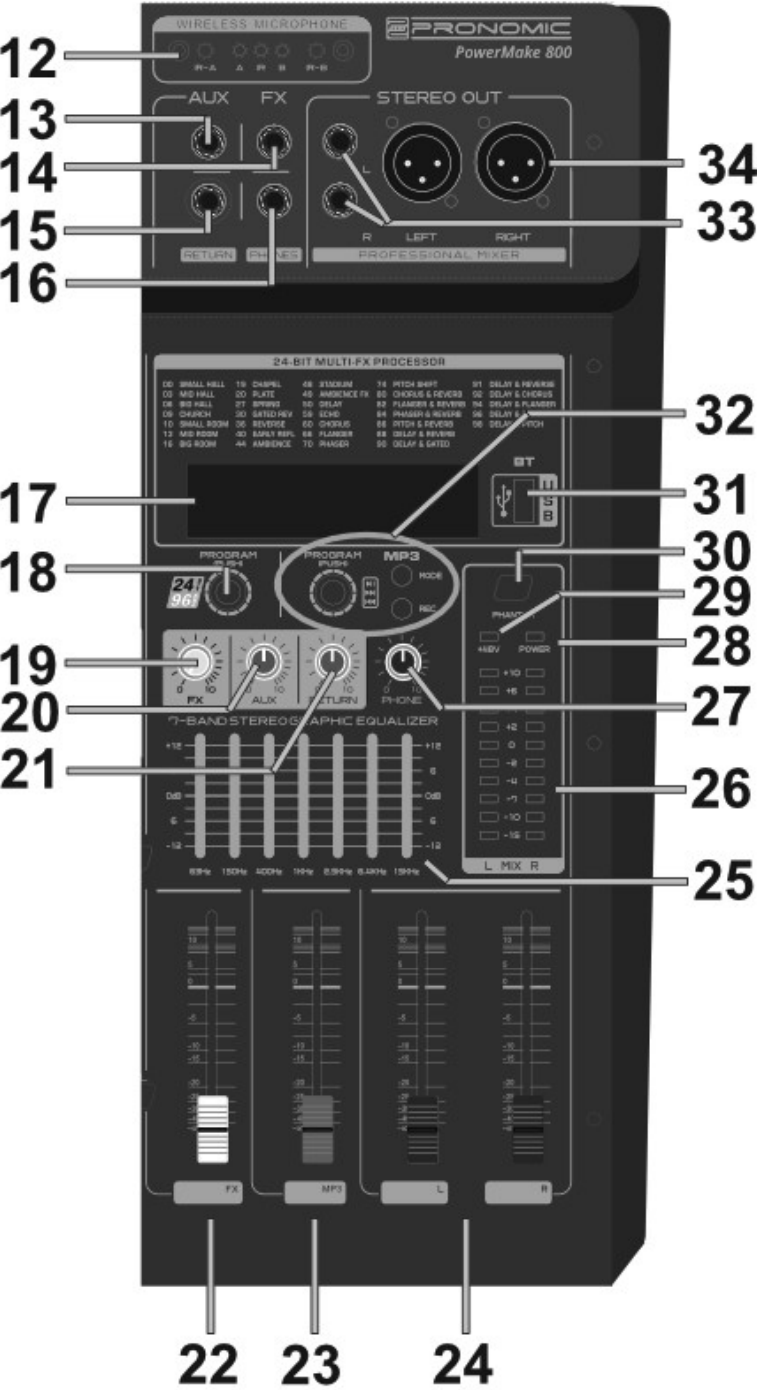
Move the Volume knob up to increase the level of the respective channel. If the CLIP LED (+10) of the stereo sum level meter lights up, the level is too high. Move the slider down to decrease the level. Please note that the CLIP LED (+10) of the level meter should not light up during operation to avoid noise and damage.

11 - PFL button

Press the PFL button to switch the signal of the respective channel directly to the headphone output for pre-listening.

Attention: The PFL button sends the signal of the selected channel directly and without reduction through the respective channel fader to the headphone output. This can result in very high volume levels on the headphones. Before using the PFL function, please turn the Phone knob all the way to the left and increase the volume gently to a comfortable level.

Front Panel Connections and Controls / Bus and Main Section



12 - Panel UHF DUAL receiver

See **4.** integrated UHF radio receiver and radio microphones

13 - AUX output jack

This connector is designed as a 6.3mm balanced jack socket. You can tap the signal of the AUX bus at this jack. You can use this signal to feed an active stage monitor, for example.

14 - Output socket FX

This connector is a 6.3mm balanced jack socket. You can tap the signal of the FX bus at this jack. You can use this signal to feed an external effects unit, for example.

15 -Input socket Return

This connector is designed as a 6.3mm balanced jack socket. You can connect an external mono signal source to this jack, or return a signal picked up from the AUX or FX jack to the signal path. The signal is routed directly to the return bus. This connection is set to LINE level. Please note that the sound may be impaired if the input signal is too high.

16 - Headphone output

Connect your headphones to this 6.3mm stereo output jack.

17 -Display

See **2.** BT/USB Player/Recorder and **3.** Integrated Effects Processor

18 - Effect processor control knob

See **3.** Integrated effect processor

19 - Volume control of the FX bus

This knob determines the signal strength of the signal sent from the FX bus to the FX jack and the internal effects processor. Turn the FX knob clockwise to increase the signal strength and counterclockwise to decrease the signal strength.

20 - Volume control of the AUX bus

This control determines the signal strength of the signal routed from the aux bus to the aux jack. Turn the AUX knob clockwise to increase the signal strength and counterclockwise to decrease the signal strength.

21 - Volume control of the return bus

This control determines the signal strength of the signal sent from the return bus to the stereo sum. Turn the Return knob clockwise to increase the signal strength and counterclockwise to decrease the signal strength. When mixing the return signal to the stereo master, keep in mind that the CLIP LED (+10) of the level meter should not light up during operation to avoid noise and damage.

22 - Volume control (fader) of the internal effects unit

This control determines the signal strength of the signal passed from the internal effects unit to the stereo master. Move the FX knob up to increase the signal strength of the mixed effect signal and down to decrease the signal strength. When adding the effect signal to the stereo sum, keep in mind that the CLIP LED (+10) of the level meter should not light up during operation, in order to avoid noise and damage.

This control has no effect on the FX bus signal routed to the FX jack.

23 - Volume control (fader) of the MP3 bus

This control determines the signal strength of the signal passed from the internal BT/USB player to the stereo sum. Move the MP3 slider up to increase the signal strength of the relayed signal and down to decrease the signal strength. Note that the CLIP LED (+10) of the level meter should not light up during operation to avoid noise and damage.

24 - L+R Master control (fader)

Move the two Master faders up to increase the stereo output signal of the mixer. To prevent damage to the following devices in the signal flow, always set the master controls to the lowest position at the beginning and increase the volume gently to the desired level. Please note that the CLIP LED (+10) of the level meter should not light up during operation to avoid noise and damage.

25 - 7-Band EQ

Using the 7-band EQ, you can adjust the sound character of the stereo sum according to your wishes to the external conditions and the sound characteristics of the respective room or your speakers. Please note that boosting frequencies in the 7-band EQ also affects the signal strength of the stereo sum. The CLIP LED (+10) of the level meter should not light up during operation, in order to avoid noise and damage.

26 - LEVEL meter

This display informs about the signal strength of the stereo sum. The green LEDs show the presence of a signal. The CLIP LED (+10) warns of overdriving, too high signal level. Please note that the CLIP LED should not light up during operation, if possible, to avoid noise and damage. In this case, move the volume controls of the stereo sum (L+R Master controls), or the controls of individual channels down to achieve a lower overall level.

27 - Headphone control

Turn the Phone knob clockwise to increase the stereo output of the headphone output. Please note that too high a volume on the headphones could damage your hearing. Turn the knob fully counterclockwise before plugging in the headphones and gently increase the volume to a comfortable level.

Attention: The PFL button sends the signal of the selected channel directly and without reduction through the respective channel fader to the headphone output. This can result in very high volume levels on the headphones. Before using the PFL function, please turn the Phone knob all the way to the left and then increase the volume gently to a comfortable level.

28 - LED operation indicator

This LED indicates that the mixer is ready for operation.

29 - LED phantom power

This LED lights up when phantom power is activated.

30 - Phantom power switch

The microphone channels (PowerMake 600 - channels 1-6 / PowerMake 800 - channels 1-8) have optional phantom power. Press this button to enable +48V phantom power on the XLR inputs of the mixer, and press the button again to disable phantom power.

It is advisable to activate phantom power only when a signal source (e.g. condenser microphone) requires it. Phantom power should be deactivated when plugging and unplugging the cable. To avoid noise caused by the switching pulse, it is advisable to set the volume control of the mixing console to a minimum value before switching the phantom power on and off.

31 - USB device socket

See 2. BT/USB Player/Recorder

32 - Control panel BT/USB player/recorder

See 2. BT/USB Player/Recorder

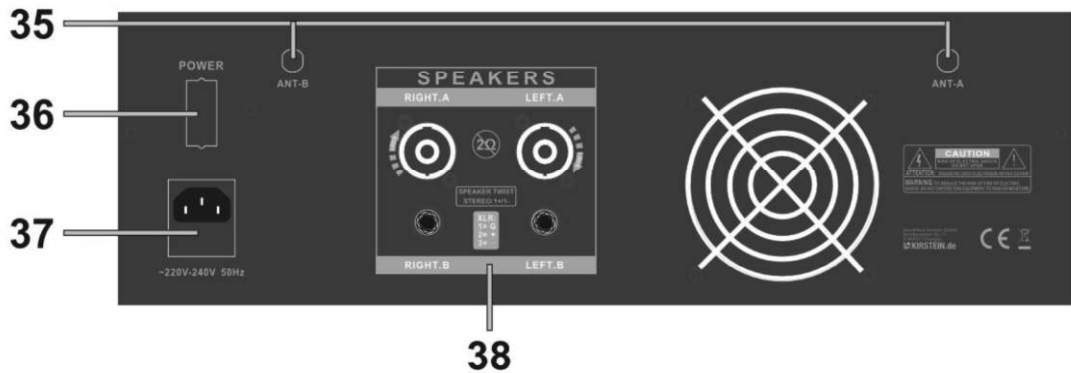
33 - Balanced jack MAIN-Out sockets

Use these balanced 6.3 mm jack output sockets to tap the stereo output signal. From here you can route the signal e.g. to an amplifier system or to active loudspeakers.

34 - XLR MAIN-Out jacks

Use these XLR output jacks to tap the stereo output signal. From here you can route the signal e.g. to an amplifier system or to active loudspeakers.

Rear connectors and controls



35 - Antenna sockets

Attach the two antennas for UHF reception of the cordless microphones here.

36 - Mains switch

For setting the mixer to operation.

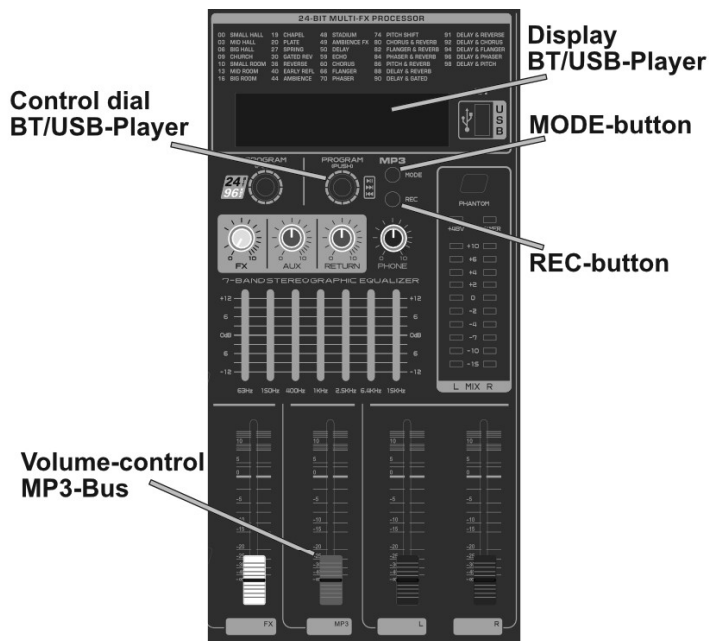
37 - Connection socket for mains cable

Connect the supplied power cord here.

38 - Output sockets of the integrated power amplifier

Attention, the amplified output signal is present at these terminals. Only connect passive speakers here. For this purpose, use either the SPEAKON® -compatible "Speaker Twist" jacks, or optionally the 6.3mm jack sockets.

2. BT/USB player/recorder



Basics and USB playback

The output signal of the BT/USB player is routed to the MP3 bus of the mixer. The playback volume depends on the volume control of the MP3 bus and the stereo sum.

When a USB flash drive is inserted, playback starts automatically.

Bluetooth

To establish a Bluetooth connection, press the MODE button repeatedly until BLUE appears on the display. The Bluetooth name is "POWERMAKE". When the audio connection is successful, the playback icon appears on the display.

Title selection and pause

Turning the control dial clockwise switches to the next track.

Turning the control dial counterclockwise switches to the previous track.

Press the control dial briefly to pause playback. Press again to resume playback.

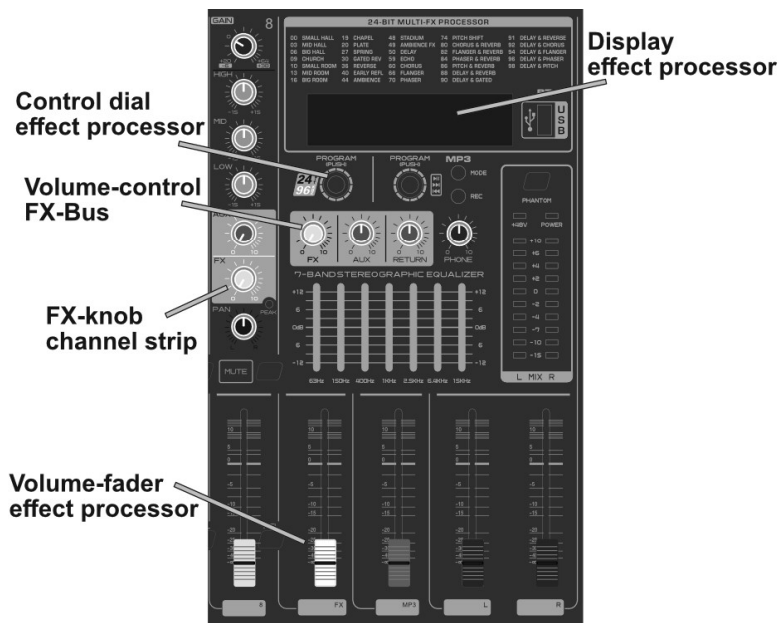
Recording function

Press the MODE button repeatedly until REC appears in the display to activate recording standby with the USB stick inserted. Alternatively, the recording mode can also be activated by briefly pressing the REC button and exited by pressing and holding the Rec button.

Start the recording by briefly pressing the rotary control. Each additional short press pauses or continues the recording. Press and hold the control dial to complete the recording.

Recording format: MP3 128Kbs bit rate

3. Integrated effect processor



The mixer has an integrated 24-bit multi-effect processor. Turn the knob to preselect the desired effect. Press the knob to activate the effect. On the display, the flashing effect number indicates that an effect has been preselected, and the lit effect number indicates that the effect is active.

The signal path is as follows.

Use the FX knob of the channel strip to select which signal is to be assigned to the effect. Of course, you can also route signals from multiple channel strips to the internal effects processor in this way. Adjust the overall signal level that is routed to the effects processor with the Volume knob of the FX bus. Now use the volume control of the integrated effect processor (FX fader) to add the music signals assigned to an effect by the internal effect device to the stereo sum.

4. Integrated UHF radio receiver and wireless microphones

Basics

The mixer is supplied with two wireless microphones whose signal can be received via the integrated UHF-DUAL wireless receiver.

Please note that for trouble-free simultaneous operation of both microphones, they must always be set to different transmitting frequencies. (See chapter: Wireless microphones)

The signal from BOTH wireless microphones is routed to channel 1 of the mixer. They are both subject to the Gain, EQ, AUX, FX, PAN, MUTE, PFL and Fader settings of the first mixer channel.



Wireless microphones

The mixer is supplied with two wireless microphones.

Two AA batteries (not included) are required for operation. To insert the batteries, unscrew the battery cap (lower third of the microphone housing) and insert the batteries securely. Make sure the polarity is correct. Then close the battery compartment tightly by screwing the battery cap back on.

Please remove the batteries if you will not be using the wireless microphones for an extended period of time. Do not mix batteries of different charge levels.

Please dispose of empty batteries at your local municipal collection point or another suitable disposal point. Empty batteries do not belong in household waste.

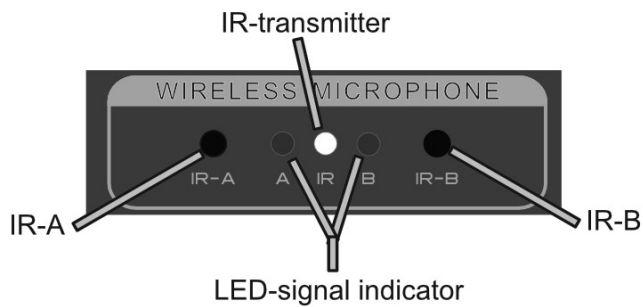
The level of the batteries is shown in the display when switched on.

Each microphone offers 10 different transmission channels. If required, these can be selected by pressing the HI/LO switch under the battery compartment cap. Normally, however, this is not necessary, as the receive channels A and B of the receive module are already preconfigured on the mixer. If you still want to change the channels, first connect the microphone to a channel of the receiver as described in the chapter UHF receiver module. Now change the frequency setting on the microphone. The microphone will then be recognized by the same channel.

Please note that for trouble-free simultaneous operation of both microphones, they must always be set to different transmitting frequencies.

The transmitting frequency range is shown in the display when switched on.

UHF receiver module



The mixer has an integrated UHF DUAL radio receiver.

After switching on the microphone, it is automatically detected and registered to one of the channels.

As soon as a connection to the microphone has been established, the red LED signal indicator of the respective radio channel (A/B) lights up permanently.

The two channels A and B of the receiver module are already preset to the reception frequencies 823,0 MHz and 827,0 MHz.

To assign a microphone to a specific channel, press the IR-A or IR-B button and then hold the display of the wireless microphone over the IR transmitter of the receiver unit. The microphone is automatically switched to the preset frequency range and connected to the respective receiver module (A/B).

Please observe the respective terms of use of your country in connection with the frequency selection.

Appendix: Technical data

Model PowerMate 600 / 800 / 1200

Inputs	-Mono (Mic/Line): 6 / 8 / 12 XLR or balanced jack socket -Return: 1 x balanced jack socket
Outputs	-Stereo Out L/R: XLR or 6.3mm jack socket -Phones: 6.3mm stereo jack -AUX: 6.3mm balanced jack mono -FX: 6,3mm balanced jack socket mono
Outputs power stage	Power-Out L/R: Speaker-Twist resp.6,3mm jack socket
Power output stage	2x 380Watt at 4Ohm
Transmitting power Radio microphones	10mW
Frequency range Radio receiverRadio microphones	Channel A (MHz): 823,0-823,3-823,7-824,0-824,4-824,7-825,1-825,4-825,8-826,1 Channel B (MHz): 827,0-827,3-827,7-828,0-828,4-828,7-829,1-829,4-829,8-830,1
Phantom Power	Yes, +48V
Power supply	AC 240V 60Hz
Dimensions [mm]	387 / 447 / 567x 155 x 405
Weight [kg]	8,2 / 8,8 / 9,8

WEEE Declaration

(Waste of Electrical and Electronic Equipment)

Your product has been designed and manufactured with high quality materials and components that can be recycled and reused.

This symbol means that electrical and electronic equipment must be disposed of separately from household waste at the end of its working life.

Please dispose of this device at your local municipal collection point or recycling center.

Please help to preserve the environment in which we live.



SIMPLIFIED EU DECLARATION OF CONFORMITY

Musikhaus Kirstein GmbH hereby declares that the radio equipment type [Pronomic Mini4, Mini6], conforms to Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

http://www.kirstein.de/docs/Konformitaetserklaerung/CE_Konformitaetserklaerung_00081555.pdf

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