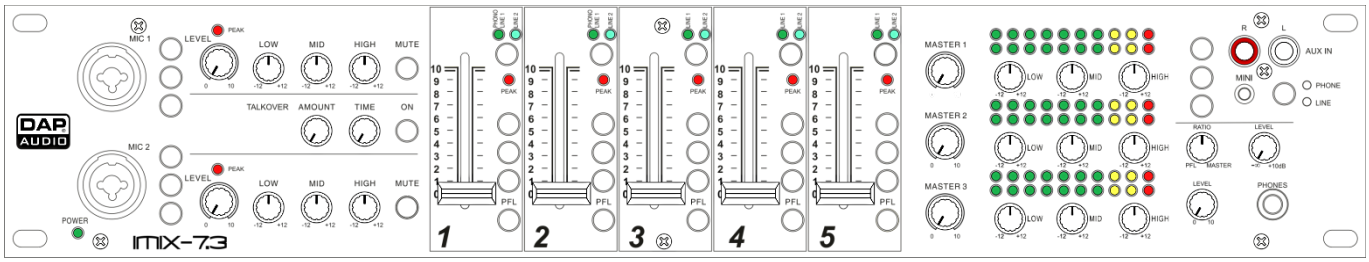
MANUAL



ENGLISH

IMIX-7.3 V2

Ordercode: D2351

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Warning

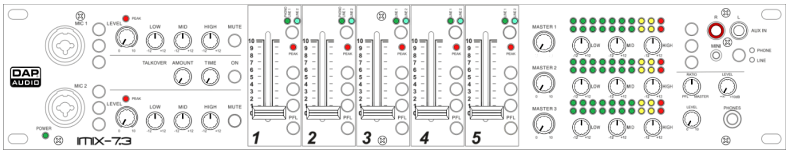
For your own safety, please read this user manual carefully before your initial start-up!

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- DAP Audio IMIX-7.3
- Power adapter 15V AC, 700mA
- User manual



CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Safety Instructions

Every person involved with the installation, operation and maintenance of this system has to:

- be qualified
- follow the instructions of this manual

CAUTION! Be careful with your operations.
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!

Before you initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the system.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the system are not subject to warranty.

This system contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the system.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.

- Do not insert objects into air vents.
- Do not connect this system to a dimmer pack.
- Do not switch the system on and off in short intervals, as this would reduce the system's life.
- Do not open the device and do not modify the device.
- Do not drive the inputs with a signal level higher than required to drive the equipment to full output.
- Do not plug mics into the console (or stage box) while Phantom Power is on. Also mute the monitor / PA system when turning Phantom Power on or off. Allow the system to adjust for a couple of seconds, before setting the input gains.
- Only use system indoors, avoid contact with water or other liquids.
- Avoid flames and do not put close to flammable liquids or gases.
- Always disconnect power from the mains, when system is not used. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Always operate the unit with the AC ground wire connected to the electrical system ground.
- Make sure you do not use the wrong kind of cables or defective cables.
- Make sure that the signals into the mixer are balanced, otherwise hum could be created.
- Make sure you use DI boxes to balance unbalanced signals; All incoming signals should be clear.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the system and the power cord from time to time.
- Please turn off the power switch, when changing the power cord or signal cable, or select the input mode switch.
- Extreme frequency boosts in connection with a high input signal level may lead to overdriving your equipment. Should this occur, it is necessary to reduce the input signal level by using the INPUT control.
- To emphasize a frequency range, you do not necessarily have to move its respective control upward; try lowering surrounding frequency ranges instead. This way, you avoid causing the next piece of equipment in your sound path to overdrive. You also preserve valuable dynamic reserve ("headroom").
- Avoid ground loops! Always be sure to connect the power amps and the mixing console to the same electrical circuit to ensure the same phase!
- If system is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your system. Leave the system switched off until it has reached room temperature.
- If your Dap Audio device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Dap Audio dealer for service.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- For replacement use fuses of same type and rating only.
- WARRANTY: Till one year after date of purchase.

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- In order to eliminate wear and improve the device's lifespan, during periods of non-use, completely disconnect from power source via breaker or by unplugging.
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

You endanger your own safety and the safety of others!

Improper installation can cause serious injuries and/or damage of property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always connected properly to the earth!

Improper installation can cause serious damage to people and property!



⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.com and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

01) Your name
02) Your address
03) Your phone number
04) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.
It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.
Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.
Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.
Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The IMIX-7.3 is a compact installation mixer with zone control. It has exactly the same functions as the IMIX-7.1 but each input on the IMIX-7.3 can be routed to the desired output. This function makes it possible to control 3 areas with different music, sound level and EQ settings.

- Input voltage: 230V AC, 50Hz
- Power consumption: 21W
- Power adapter: 15V AC, 700mA
- Input channels: 2 x microphone, combo XLR/Jack
  11 x Line, RCA
  2 x Phono, RCA
  1 x Phone; 3,5 mm jack
- Output channels: 3 x Master Balanced, XLR
  1 x REC output, RCA
  1 x Headphones; 6,3 mm jack
- Master EQ: 80Hz, 1kHz, 12kHz, -12dB / +12dB
- Mic EQ: 80Hz, 1kHz, 12kHz, -12dB / +12dB
- Frequency response: 20Hz-20kHz
- T.H.D.: <0.05%
- Dimensions: 483 x 89 x 89 mm (LxWxH)
  19" x 2 HE
- Weight: 3,4 kg

Overview

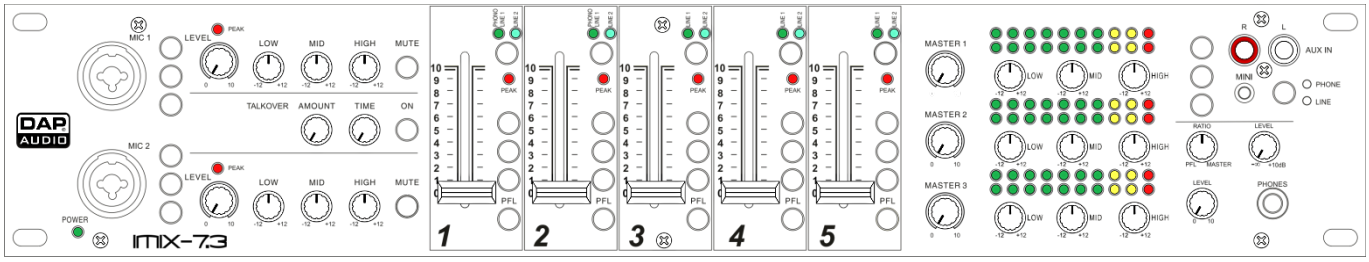


Fig. 01

Frontside

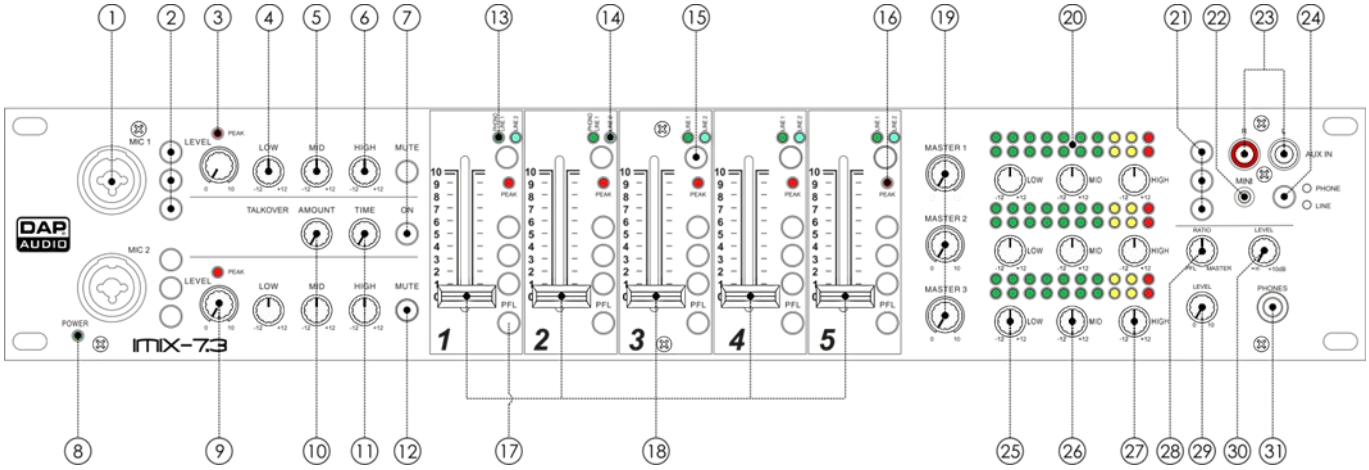


Fig. 02

01) Mic balanced connector IN (mic 1/2)
02) Zone select button (all channels)
03) Peak LED (mic 1/2)
04) Low control (mic 1/2)
05) Mid control (mic 1/2)
06) High control (mic 1/2)
07) Talkover ON button
08) Power LED
09) Mic Level control (mic 1/2)
10) Talkover amount control
11) Talkover time control
12) Mute button (mic 1/2)
13) Phono/line 1 LED (channel 1-5)
14) Line 2 LED (channel 1-5)
15) Input selection switch (channel 1-5)
16) Peak LED (channel 1-5)
17) PFL button (channel 1-5)
18) Channel fader (channel 1-5)
19) Master control (master 1-3)
20) VU-meter (master 1-3)
21) Zone select buttons (master 1-3)
22) Aux unbalanced mini jack connector IN
23) Aux unbalanced RCA connectors IN
24) Phone/line button
25) Low control (master 1-3)
26) Mid control (master 1-3)
27) High control (master 1-3)
28) Ratio control
29) Headphones level control
30) Aux in level control
31) Headphones connector OUT

Backside

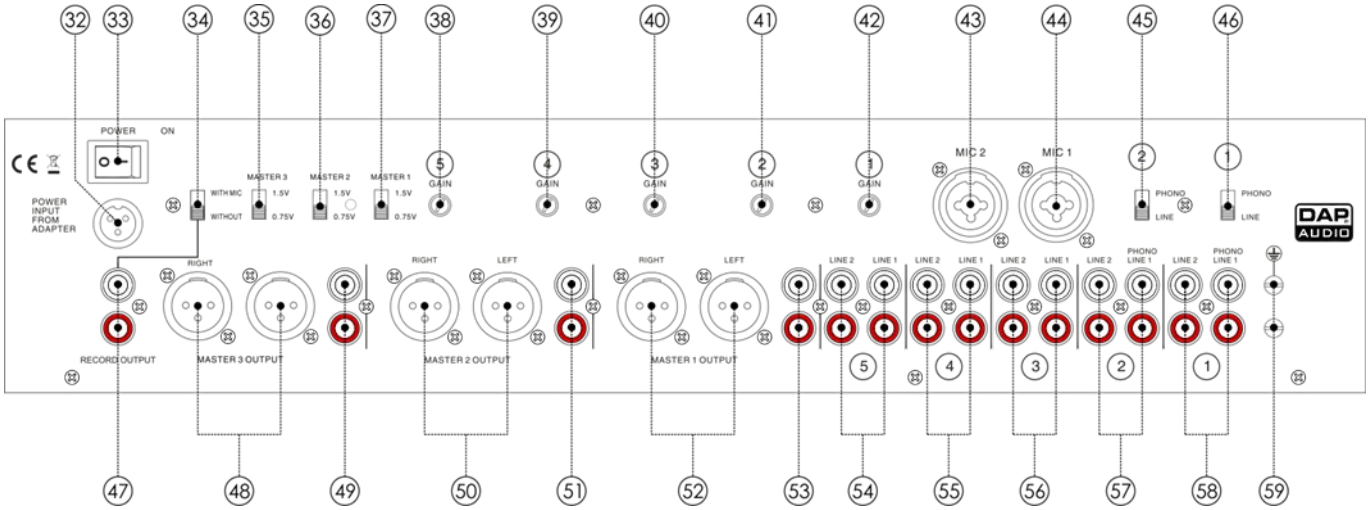


Fig. 03

32) Power adapter connector
33) Power switch ON/OFF
34) With/without mic switch
35) Master 3 level switch
36) Master 2 level switch
37) Master 1 level switch
38) Channel 5 gain control
39) Channel 4 gain control
40) Channel 3 gain control
41) Channel 2 gain control
42) Channel 1 gain control
43) Mic 2 combo connector IN
44) Mic 1 combo connector IN
45) Channel 2 line/phono switch
46) Channel 1 line/phono switch
47) Record RCA unbalanced connector OUT
48) Master 3 XLR balanced connector OUT
49) Master 3 RCA unbalanced connector OUT
50) Master 2 XLR balanced connector OUT
51) Master 2 RCA unbalanced connector OUT
52) Master 1 XLR balanced connector OUT
53) Master 1 RCA unbalanced connector OUT
54) Channel 5 line 1/line 2 connectors IN
55) Channel 4 line 1/line 2 connectors IN
56) Channel 3 line 1/line 2 connectors IN
57) Channel 2 phono-line 1/line 2 connectors IN
58) Channel 1 phono-line 1/line 2 connectors IN
59) GND screw

Installation

Remove all packing materials from the IMIX-7.3. Check that all foam and plastic padding is removed. Connect all cables.

Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Functions

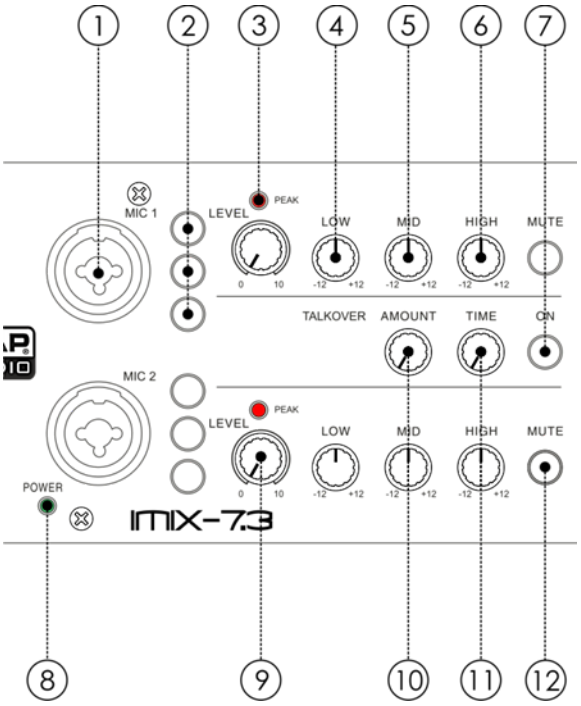


Fig. 04

01) Mic balanced connector IN (mic 1/2)
Electronically balanced combo-type input for connecting low impedance microphones. The input has extremely low noise and low hum. When connecting a microphone, make sure that the pin assignment is correct. Always make sure to read the manual of the microphone you want to connect. The XLR input is not suitable for connecting an additional mixing console, FX- unit, etc. You have to use the **line (54-58)** inputs, when connecting this kind of equipment.

Note: When connecting signal sources, please make sure the corresponding channel faders and the master controls are set to their minimum settings. Otherwise, unpleasant plug-in noise can occur.

02) Zone select buttons
Use these 3 switches to assign the channel to one or more master outputs.

03) Peak LED
The peak LED shows peak levels in a channel's incoming signal level. If the red peak LED frequently blinks or constantly lights up, the corresponding channel is likely to enter clipping and you have to reduce the input's amplification using the **level (09)** control. The peak LED lights at the level of 8dB below clipping. Make sure that the peak LED lights up only briefly during dynamic peaks.

04/05/06) Equalizer section (high/mid/low)
The microphone channel's equalizer section allows shaping of the incoming audio signal. All mono input channels are fitted with a 3-band EQ. The **high (06)** and **low (04)** shelving controls have their frequencies fixed at 12kHz and 80Hz, respectively. The **mid (05)** range control has a peaking response frequency of 1kHz. All 3 bands have up to 12dB of cut and boost, with a center detent for off. Turning an equalizer control to the right amplifies the frequency range, turning to the left attenuates the signal. Minor changes to the equalizer control usually produces the best results. Try to avoid excessive enhancement of the mid band.

07) Talkover ON button
Press this switch to activate the talkover function.

08) Power LED
The green power LED lights up when the IMIX is turned on. If, after switching the device on, the LED does not light up, make sure that the AC adapter is connected properly. If the LED still does not light up, when everything is connected properly, please contact your DAP Audio dealer.

09) Mic level control (Mic 1/2)
Controls the volume of the corresponding microphone channel.

10) Talkover amount control
Turn this control to set the amount of signal reduction for the line channels 1-5, when speaking to the microphone.

11) Talkover time control
This control allows you to set the time which needs to pass before the normal volume level of the line channels 1-5 is restored, when you stop speaking to the microphone.

12) Mute button
Press this button to mute the desired microphone channel.

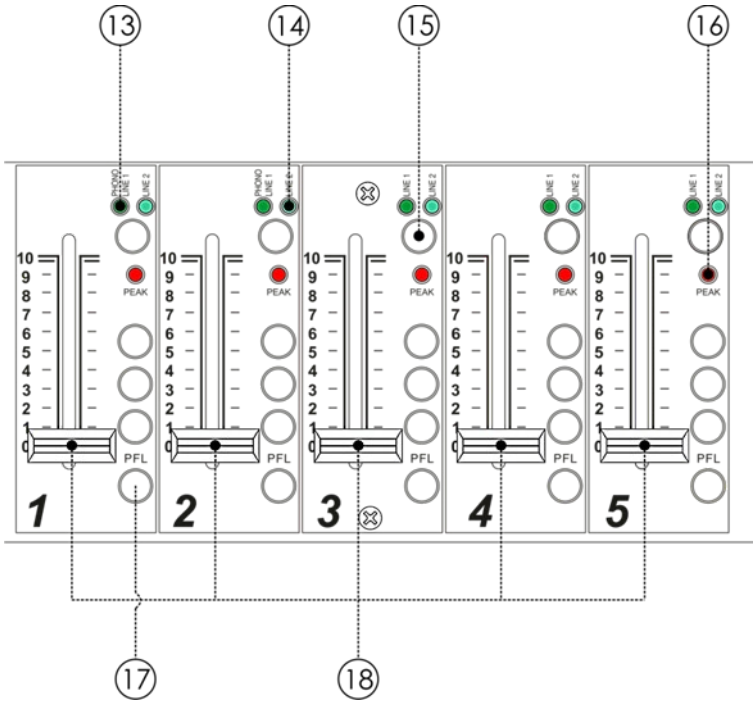


Fig. 05

13) Phono-line 1 LED
Indicates that the phono-line 1 input is selected.

14) Line 2 LED
Indicates that the line 2 input is selected.

15) Selection switch (phono-line 1/line 2)
Press this switch to choose between two sets of inputs per channel.

16) Peak LED
The peak LED shows signal peaks in a channel's incoming signal. If the red peak LED frequently blinks or constantly lights up, the corresponding channel is likely to enter clipping and you have to reduce the input's amplification using the corresponding **gain (38-42)** control on the back. The peak LED lights up at the level of 8dB below clipping. Make sure that the peak LED lights up only briefly, during dynamic peaks.

17) PFL button
Press this button (pre-fade listening) to route the channel input to the monitor section independent of the individual channel's volume fader setting. It is possible to assign multiple channels at a time to the PFL bus.

18) Channel fader
A logarithmic 50mm fader, which controls the volume of the corresponding channel. The overall volume is set with the master control.

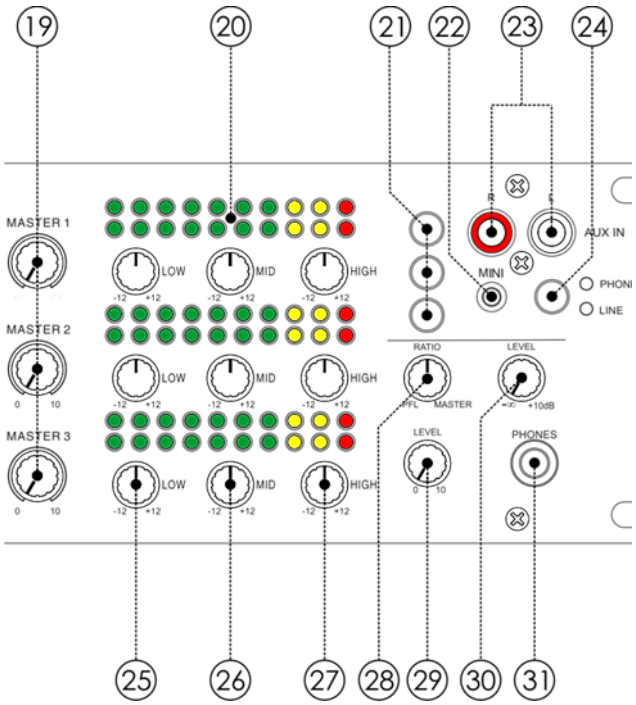


Fig. 06

19) Master control (master 1-3)
You can adjust the output signal of the **master 1-3 outputs (48-53)**.

20) Output signal VU-meter (master 1-3)
This meter is a multi-step LED. The accurate level indication allows you to monitor the output signal level and match it with other devices.

21) Zone select buttons
Press these 3 buttons to assign the channel to one or multiple master outputs.

22) Aux mini jack connector IN
Unbalanced stereo mini jack aux input for connecting a line/phone level device. Press the **phone/line (24)** button to set up this input for connecting either headphones or line level output devices.

23) Aux RCA connectors IN
Unbalanced stereo RCA aux input for connecting a line/phone level device. Press the **phone/line (24)** button to set up this input for connecting either headphones or line level output devices.

24) Phone/line button

Press this button to configure both **aux (22/23)** inputs for either line level or phone level. When the input level is too low, press this button. When the light is on, the level of the input signal will be boosted. The phone level adjusts the input sensitivity to the correct level for MP3 players, smartphones or tablets. Now you can use your MP3 devices directly without signal loss.

25/26/27) Equalizer section (master 1-3)

The master equalizer section allows shaping of the outgoing audio signals. All master channels are fitted with a 3-band EQ. The **high (27)** and **low (25)** shelving controls have their frequencies fixed at 12kHz and 80Hz respectively. The **mid (26)** range control has a peaking frequency response of 1kHz. All 3 bands have up to 12dB of cut and boost, with a center detent for off. Turning the equalizer to the right amplifies the frequency range; turning to the left attenuates the signal. Minor changes to the equalizer control usually produce the best results. Try to avoid excessive enhancement of the mid band.

28) Ratio control

Turn this control to make a headphone mix between your PFL and your master signal.

29) Headphones level control

Turn this control to adjust the headphones' volume.

30) Aux In line level control

Turn this control to adjust the level of the **aux (22/23)** inputs in the master mix.

31) Headphones connector OUT

You can connect a pair of headphones with an impedance of 32-600 Ohm to the headphones connector. It is a 6,3 mm/ 1/4" TRS socket, wired as Tip=left, Ring=right and sleeve = ground.

Caution

Depending on the type of headphones connected to the headphones jack, the IMIX-7.3 is capable of producing high output levels via the headphones output. Therefore, make sure to turn the control all the way to the left (minimum setting) before connecting the headphones. Be aware of the fact that listening to loud sound pressure levels over a longer period of time leads to hearing damage!

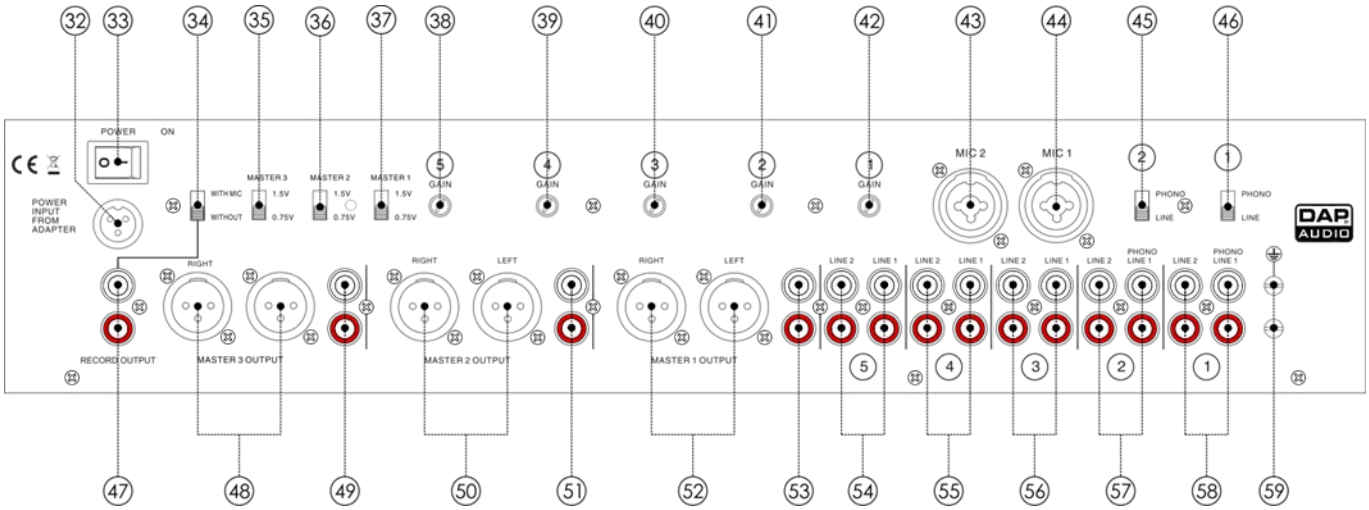


Fig. 07

32) Power adapter connector IN
This is the remote AC power supply input socket for the IMIX-7.3. It is a special 3-core socket. Please use the supplied DAP audio adapter only.

33) Power switch ON/OFF
Do not supply power before the whole system is set up and connected properly.

34) With/without mic switch
Use this switch if you do not want your microphone signal at the **record (47)** output.

35) Master 3 level switch
This selector allows you to set the output level (0,75V or 1,5V) for the Master 3 output.

36) Master 2 level switch
This selector allows you to set the output level (0,75V or 1,5V) for the Master 2 output.

37) Master 1 level switch
This selector allows you to set the output level (0,75V or 1,5V) for the Master 1 output.

38) Channel 5 gain control
Channel 5 input level is determined by the gain control. With the gain control you can adjust the line input sensitivity, while optimally matching the incoming signals to the mixer's internal operation level. The high gain of this mixer is ideal when dealing with very low input levels.

39) Channel 4 gain control
Channel 4 input level is determined by the gain control. With the gain control you can adjust the line input sensitivity, while optimally matching the incoming signals to the mixer's internal operation level. The high gain of this mixer is ideal when dealing with very low input levels.

40) Channel 3 gain control
Channel 3 input level is determined by the gain control. With the gain control you can adjust the line input sensitivity, while optimally matching the incoming signals to the mixer's internal operation level. The high gain of this mixer is ideal when dealing with very low input levels.

41) Channel 2 gain control
Channel 2 input level is determined by the gain control. With the gain control you can adjust the line input sensitivity, while optimally matching the incoming signals to the mixer's internal operation level. The high gain of this mixer is ideal when dealing with very low input levels.

42) Channel 1 gain control
Channel 1 input level is determined by the gain control. With the gain control you can adjust the line input sensitivity, while optimally matching the incoming signals to the mixer's internal operation level. The high gain of this mixer is ideal when dealing with very low input levels.

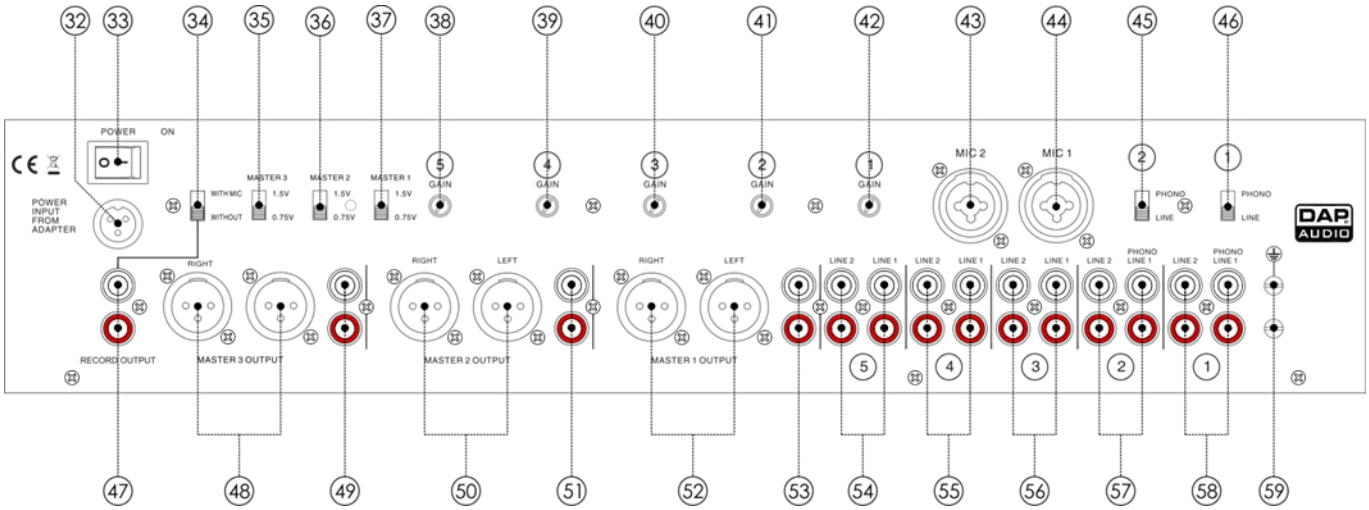


Fig. 08

43) Mic 2 combo connector IN
Depending on what is most suitable in a given situation, you can use the combo input at the front or the rear. Both inputs are wired in parallel so it is possible to use them for linking through.

44) Mic 1 combo connector IN
Depending on what is most suitable in a given situation, you can use the combo input at the front or the rear. Both inputs are wired in parallel so it is possible to use them for linking through.

45) Channel 2 line/phono switch
Use this switch to set the input level for the **channel 2 phono-line (57)** inputs at either phono or line level.

46) Channel 1 line/phono switch
Use this switch to set the input level for the **channel 1 phono-line (58)** inputs at either phono or line level.

47) Record RCA unbalanced connector OUT
Use this connector to connect a recording device.

48) Master 3 XLR balanced connectors OUT
Use these outputs to connect an amplifier with balanced inputs.

49) Master 3 RCA unbalanced connectors OUT
Use these outputs to connect an amplifier with unbalanced inputs.

50) Master 2 XLR balanced connectors OUT
Use these outputs to connect an amplifier with balanced inputs.

51) Master 2 RCA unbalanced connectors OUT
Use these outputs to connect an amplifier with unbalanced inputs.

52) Master 1 XLR balanced connectors OUT
Use these outputs to connect an amplifier with balanced inputs.

53) Master 1 RCA unbalanced connectors OUT
Use these outputs to connect an amplifier with unbalanced inputs.

54) Channel 5 RCA line connectors IN
Use these connectors to connect a line level device. You can select one of the 2 line inputs with the corresponding **line select (15)** button on the front panel.

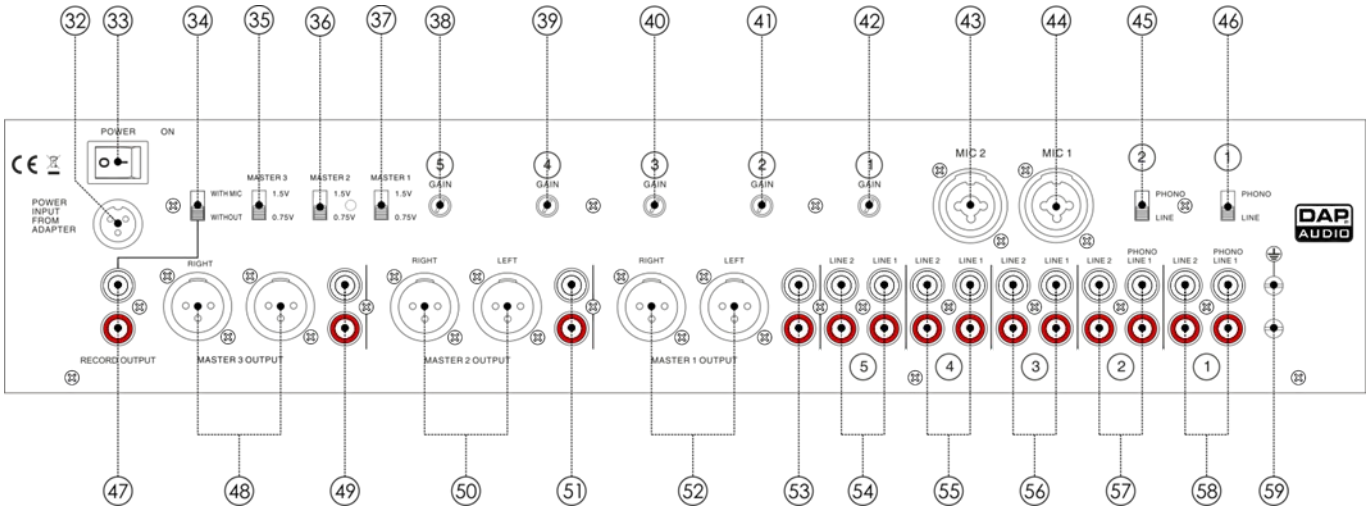


Fig. 09

55) Channel 4 RCA line connectors IN
Use these connectors to connect a line level device. You can select one of the 2 line inputs with the corresponding **selection switch (15)** button on the front panel.

56) Channel 3 RCA line connectors IN
Use these connectors to connect a line level device. You can select one of the 2 line inputs with the corresponding **selection switch (15)** button on the front panel.

57) Channel 2 RCA line/phono-line connectors IN
Use the line input to connect a line level device. Depending on the position of the **phono/line switch (45)**, you can connect either a line level device or a turntable to the phono/line input.

58) Channel 1 RCA line/phono-line connectors IN
Use the line input to connect a line level device. Depending on the position of the **phono/line switch (46)**, you can connect either a line level device or a turntable to the phono/line input.

59) GND screw
Connect the ground wire of your turntable.

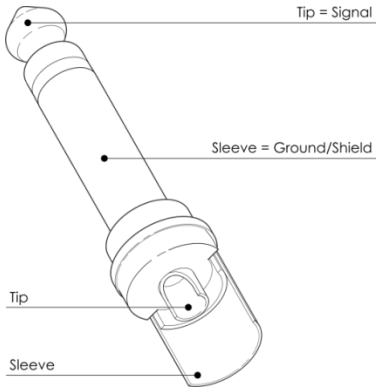
Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.
Connect the device to the main power supply.

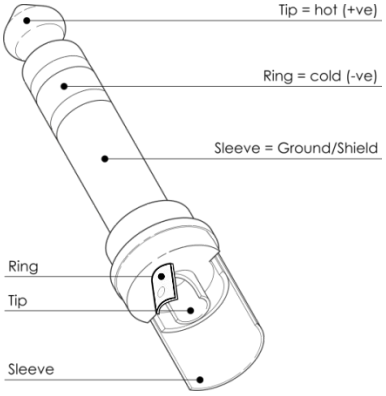
Connection Cables

Take care of your cables, always holding them by the connectors and avoiding knots and twists when coiling them: This gives the advantage of increasing their life and reliability. Periodically check your cables. A great number of problems (faulty contacts, ground hum, discharges, etc.) are caused entirely by using unsuitable or faulty cables.

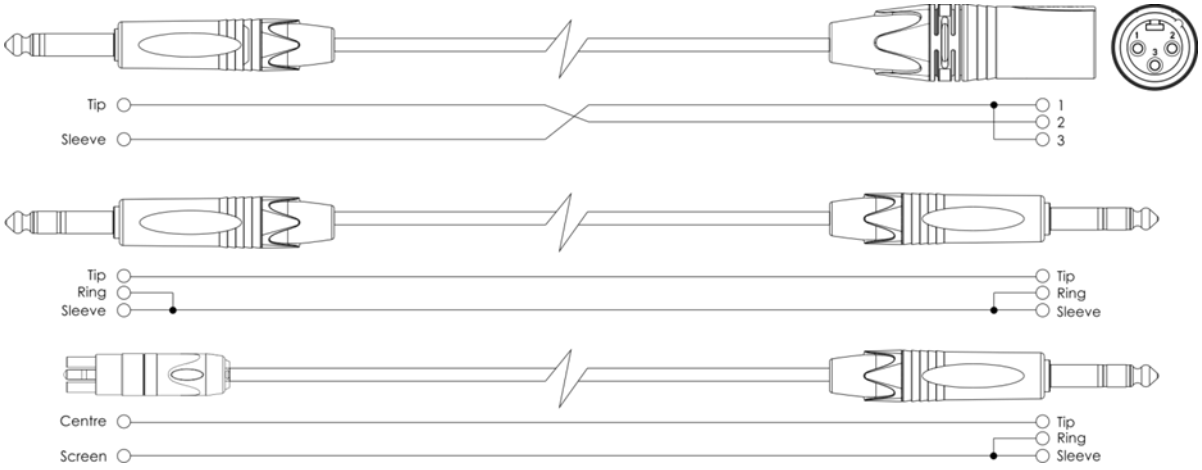
Unbalanced



Balanced



For these applications the unit provides 1/4" TRS and XLR connectors to easily interface with most professional audio devices. Follow the configuration examples below for your particular connection.



Maintenance

The DAP Audio IMIX-7.3 requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Do not use alcohol or solvents.
Keep connections clean. Disconnect electric power, and then wipe the audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Troubleshooting

DAP Audio IMIX-7.3
This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

01) If the device does not operate properly, unplug the device.
02) Check power from the wall, all cables, connections, etc.
03) If all of the above appears to be O.K., plug the unit in again.
04) If nothing happens after 30 seconds, unplug the device.
05) If you are unable to determine the cause of the problem, do not open the IMIX-7.3, as this may damage the unit and the warranty will become void.
06) Return the device to your DAP Audio dealer.

Block Diagram

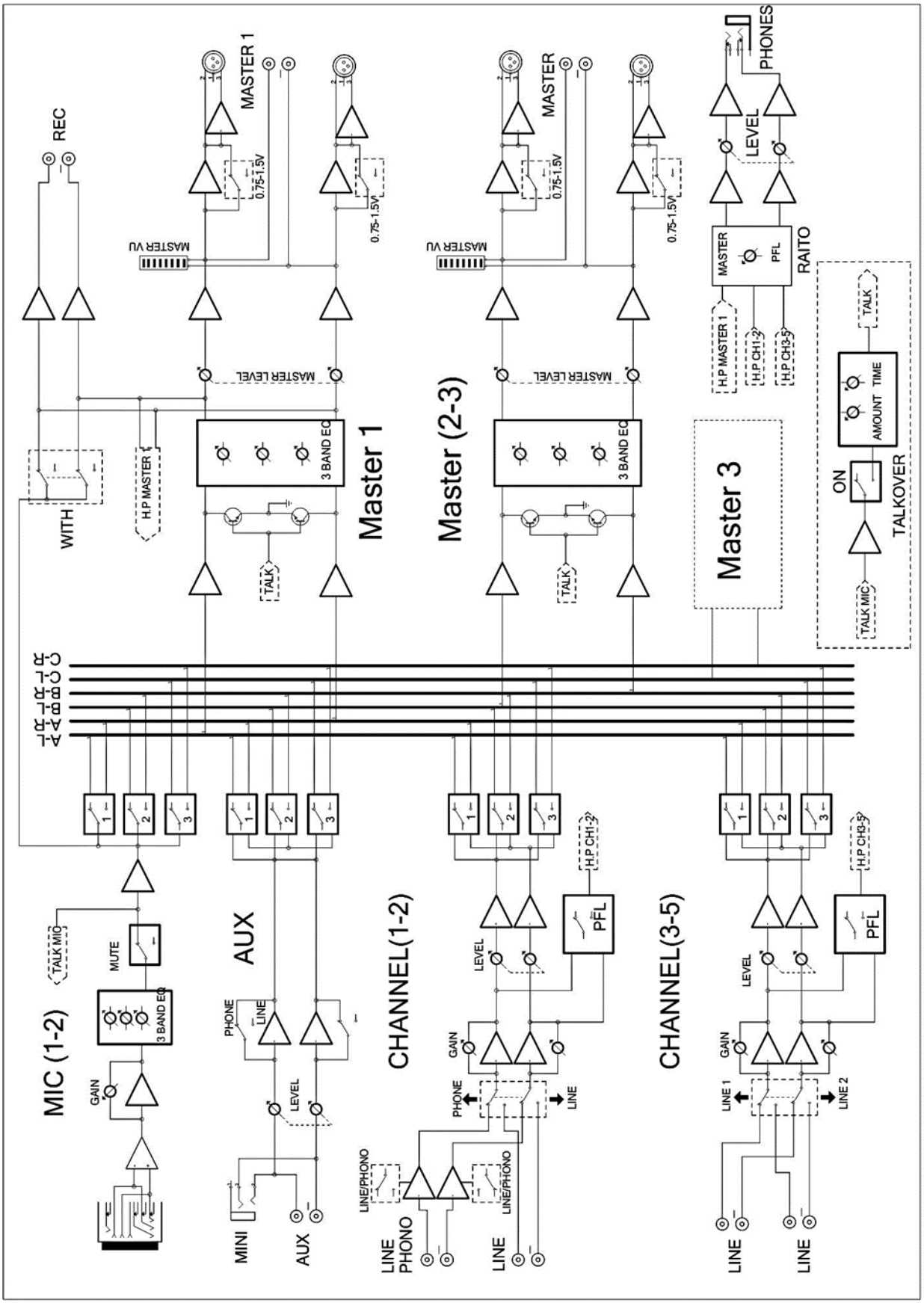


Fig. 10

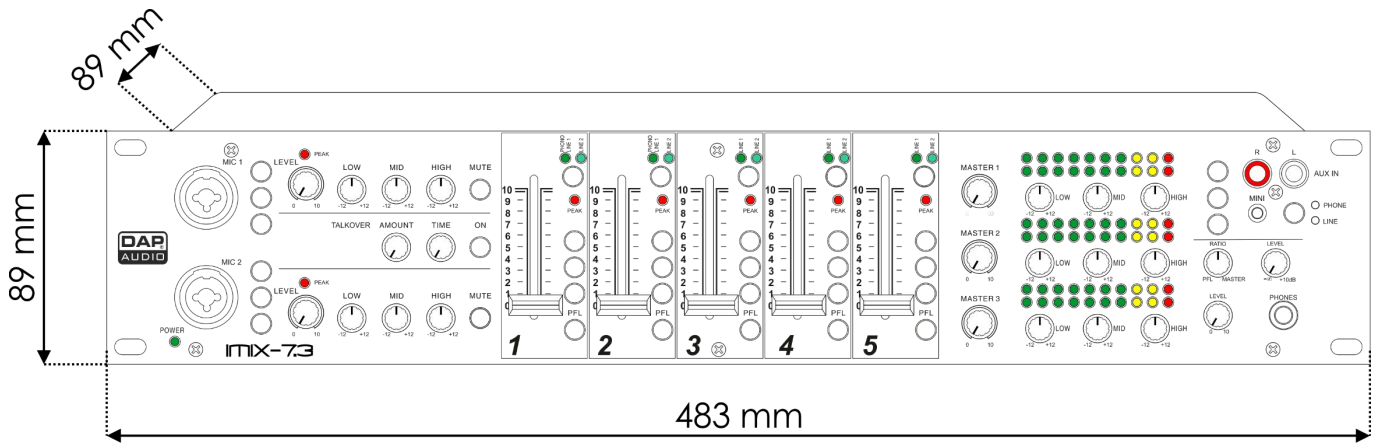
Product Specifications

Input channels
2 x Microphone, combo XLR/Jack
11 x Line, RCA
2 x Phono, RCA
1 x Phone, 3,5 mm jack

Output channels
3 x Master Balanced, XLR
1 x REC output, RCA
1 x Headphones; 6,3 mm jack

Other specifications:

Master EQ:	80 Hz, 1kHz, 12kHz, -12 dB / +12 dB
Mic EQ:	80 Hz, 1kHz, 12kHz, -12 dB / +12 dB
Frequency response:	20Hz-20kHz
T.H.D.:	<0.05%
Input voltage:	230V AC, 50Hz
Power adapter:	15V AC, 700mA
Power consumption:	21W
Dimensions:	483 x 89 x 89 mm (LxWxH) 19" x 2 HE
Weight:	3,4 kg



Design and product specifications are subject to change without prior notice.

CE

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Notes



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