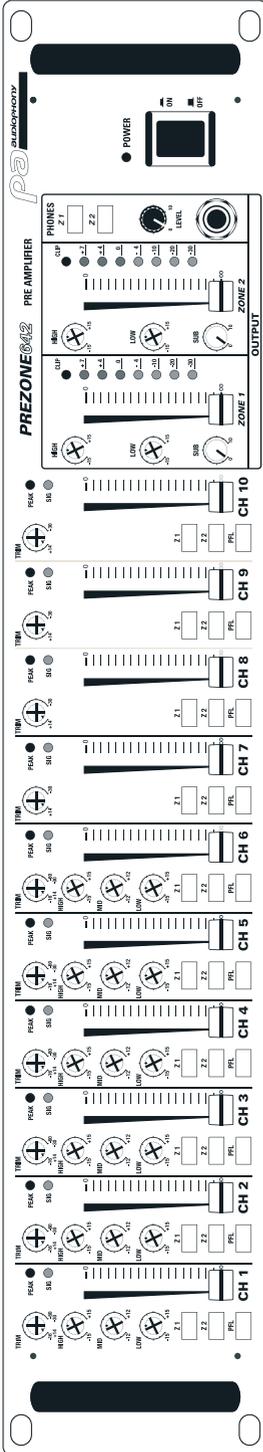


Multi-zone mixer/preamp with 6 mic inputs, 4 line-level inputs and 2 zones



PREZONE 642

1 - Safety information

Important safety information



This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.



This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.



Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer. In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.



Risk of electrocution

To prevent the hazard of electric shocks, do not use extension cords, multi-socket or any other connection system without making sure metal parts completely are out of reach.



Sound levels

Our audio solutions deliver important sound pressure levels (SPL) that can be harmful to human health when exposed during long periods. Please do not stay in close proximity of operating speakers.



Recycling your device

- As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
- When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Symbols used



This symbol signals an important safety precaution.



The CAUTION symbol signals a risk of product deterioration.



The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.

Instructions and recommendations

1 - Please read carefully :

We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :

We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :

We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:

Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :

Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :



We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :

Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :



The cooling vents ensure a safe use of this product, and avoid any overheating risk.

Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never be operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure :

Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

10 - Electric power supply :



This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:



Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :



Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :

Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :



Do not let any object penetrate this product as it may result in electric shock or fire.

Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :



Please contact the qualified service personnel if :

- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

16 - Inspection/maintenance :



Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :



Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).

Do not operate this product in a non-ventilated, very humid or warm place.

2 - Introduction

The PREZONE642 is resolutely focused on professional installations: it features 6 XLR or Jack mono mic/line inputs and 4 RCA or Jack stereo inputs.

Each input can see its signal sent to each zone, or both zones simultaneously in order to offer maximum possibilities.

Each zone features extra SUB outputs with adjustable volume, plus an insert allowing you to add an effect or additional protection.

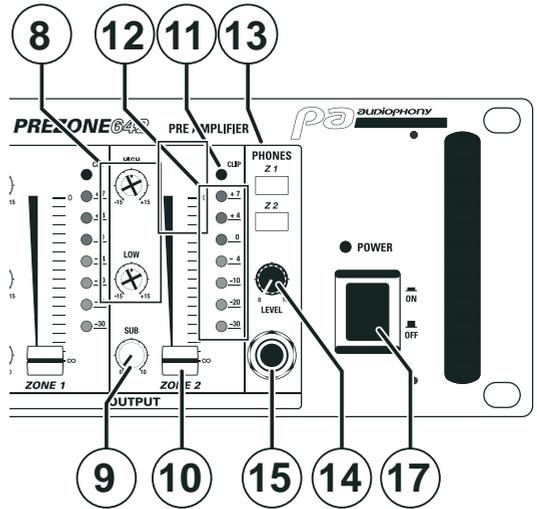
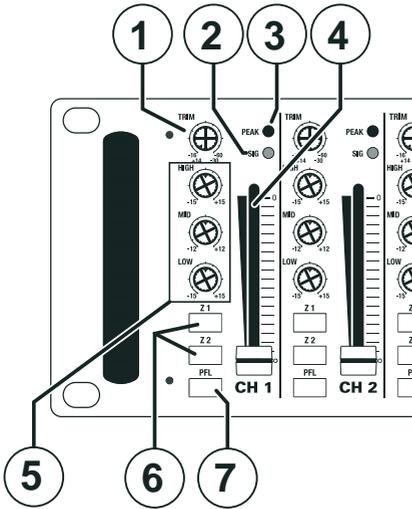
This mixer also features a monitoring area for you to control each zone via headphones.

3 - Main characteristics

- 6 Mono Mic/Line input via XLR/jack mono
- Phantom power supply and Talkover on channels 1 and 2
- 4 RCA or Jack stereo inputs
- Jack 6.35 priority input
- Zone 1 and 2 balanced XLR mono outputs
- Jack 6.35 TRS zone insert
- 1 Balanced Jack SUB output per zone
- Balanced RCA stereo REC output
- 3-way tone and gain control via mic inputs
- Gain control via stereo inputs
- 2-way tone control per zone
- SUB volume control per zone
- Installer-dedicated settings accessible with a screwdriver
- Zone assignation, PFL on each channel strip
- Peak and Signal LED display
- A 7-LED VU meter displays the output level for each zone
- Headset output with volume control (zones and PFL)

4 - Presentation

Front panel



1 TRIM Control knobs

Allow you to adjust input levels. They have a 44 dB range, from -60 dB to -16 dB for microphone inputs, -30 dB to +14 dB for line-level inputs.

2 Signal indicators

Indicate an incoming signal on the corresponding input.

3 PEAK Indicators

Indicate an excessive signal level on the corresponding channel. We strongly recommend not to exceed brief flashes of these indicators in order to prevent sound distortions.

4 Channel faders

Allows you to adjust the volume output of each channel.

5 Input equalization

Each channel features a 3-way signal equalization. These knobs allow you to increase or decrease basses (LOW), mid frequencies (MID) and trebles (HIGH) of each outgoing signal. Microphone channels only feature these settings.

- **HIGH** (High Frequency control): Allows you to adjust trebles of the corresponding channel from -15 to +15 dB at 12.5kHz. Turn this knob clockwise to increase trebles, while turning it counterclockwise decreases them. The middle position does not modify trebles.

- **MID** (Mid frequency control): Allows you to adjust mid frequencies of the corresponding channel from -15 to +15 dB at 12.5kHz. Turn this knob clockwise to increase trebles, while turning it counterclockwise decreases them. The middle position does not modify mid frequencies.

- **LOW** (low frequency control): Allows you to adjust basses of the corresponding channel from -15 to +15 dB at 12.5kHz. Turn this knob clockwise to increase basses, while turning it counterclockwise decreases them. The middle position does not modify basses.

6 Z1 and Z2 buttons

Allow you to assign each channel to 1 zone (ZONE 1 or ZONE 2) or both zones simultaneously.

7 PFL Buttons

Allows you to send the pre-fade signal (before channels alterations) to the monitoring area.

8 Output equalization

Allows you to adjust some output signal frequencies.

- **HIGH** (High Frequency control): Allows you to adjust the output signal trebles from -15 to +15 dB at 12.5kHz. Turn this knob clockwise to increase trebles, while turning it counterclockwise decreases them. The middle position does not modify trebles.

- **LOW** (low frequency control): Allows you to adjust the output signal basses from -15 to +15 dB at 12.5kHz. Turn this knob clockwise to increase trebles, while turning it counterclockwise decreases them. The middle position does not modify basses.

9 SUB Control knob

Allows you to adjust the SUB1 and SUB2 output levels.

10 ZONE 1 and ZONE 2 faders

Allows you to adjust ZONE 1 and ZONE 2 signals output volume.

11 CLIP LEDs

Indicate an excessive signal level on the corresponding channel.

We strongly recommend not to exceed brief flashes of these indicators in order to prevent sound distortions.

12 LED VU meter

7-LED VU meter indicating the signal level for each channel.

Please make sure the signal remains between 0 and +4 dB to ensure optimal sound quality.

13 Z 1 and Z 2 switches

Allow you to monitor ZONE 1 and/or ZONE 2.

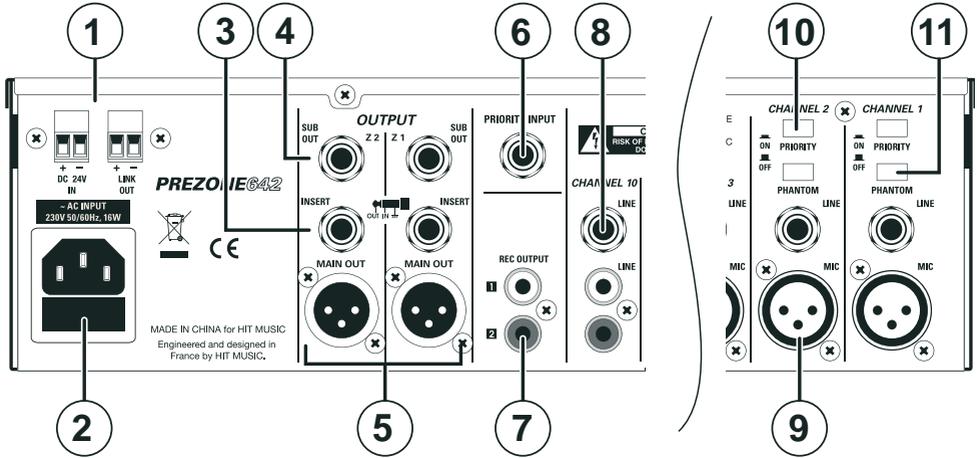
14 LEVEL Control knob

Allows you to adjust monitoring headphones signal output volume.

15 Jack 6.35 input

Connect here your monitoring headphones.

Back Panel

**1 DC24V and LINK OUT connectors**

Your PREZONE642 may be installed in public places and broadcast emergency signals. In order to remain activated in case of power failure, it is equipped with a 24V emergency power supply socket.

More devices can be daisy-chained via the LINK OUT socket.

Only the warning signal signal sent from the PRIORITY INPUT will then be broadcast.

2 Power input

Connect here the supplied IEC power cord, then connect the other end to an electrical outlet after having checked the voltage.

3 INSERT Sockets

Allows you to add an effects processor, compressor, limiter, etc.

Refer to chapter "Connectors" for more information about these sockets.

4 SUB Outputs

Connect here an amplifier in order to power up another subordinate zone. The signal level can be adjusted via the front panel.

5 MAIN Outputs

Connect here an amplifier in order to power up speakers. The signal level can be adjusted via the front panel ZONE 1 and ZONE 2 knobs.

6 PRIORITY INPUT Socket

Connect here a signal coming from an emergency system.

All signals will be interrupted if a signal is detected on this input.

7 REC Output

Connect here a recording device.

The signal sent to this output is a mix of all signals received via the inputs.

8 Line-level inputs

Any line-level signal can be sent to these inputs (CD player, MP3, Tuner, etc.).

9 Microphone inputs

Connect here your microphones.

Channels 1 and 2 features optional phantom power supply units to allow you to connect.

10 PRIORITY Switches

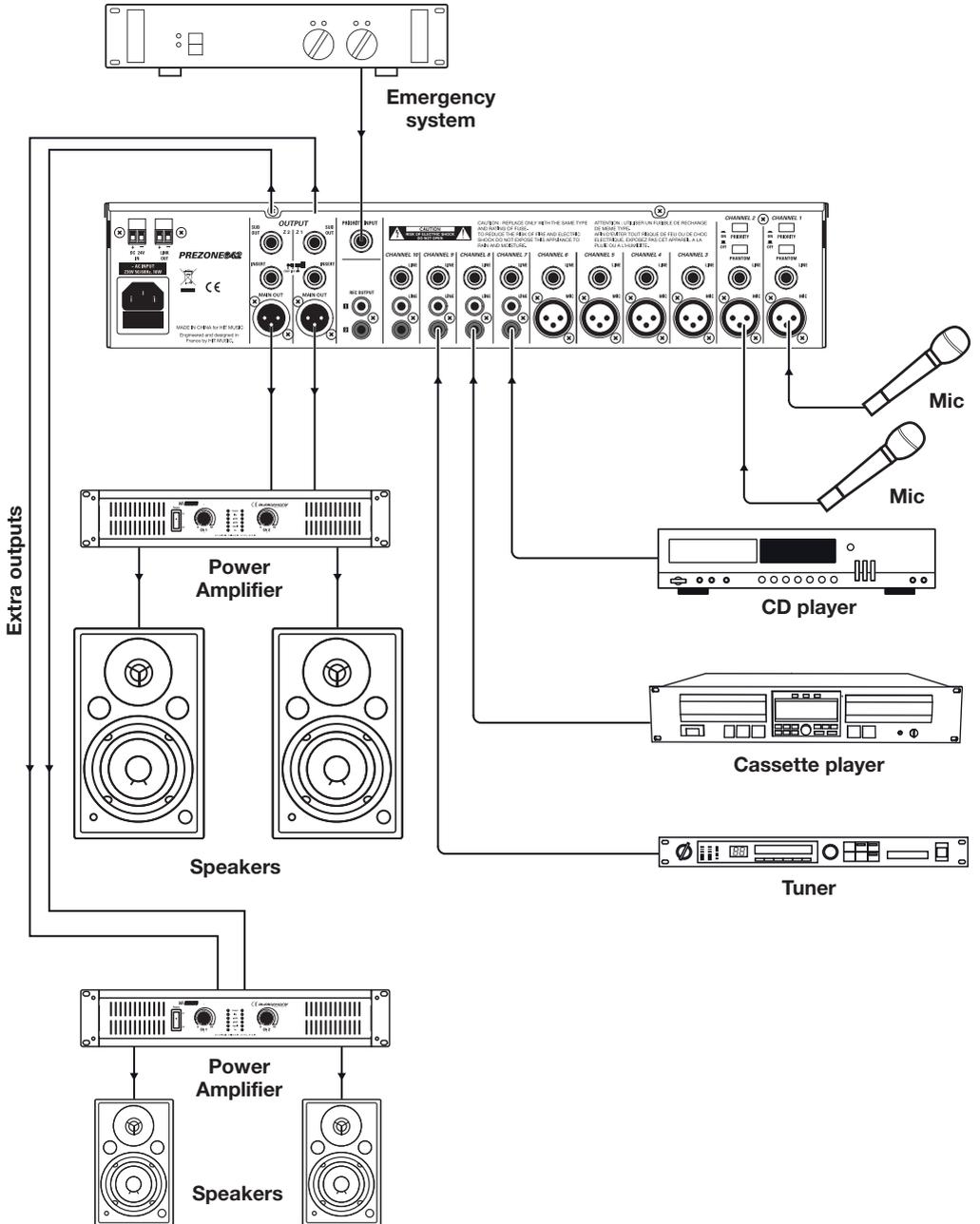
When activated, allow you to give priority to channel 1 or 2, they act like talk-overs and interrupt the signals of non-priority channels.

The priority level of these channels will then be identical to the PRIORITY INPUT (6).

11 PHANTOM Switches

Allow you to add an +18V DC phantom power supply to microphone channels 1 and 2.

6 - Standard installation



6 - Connectors

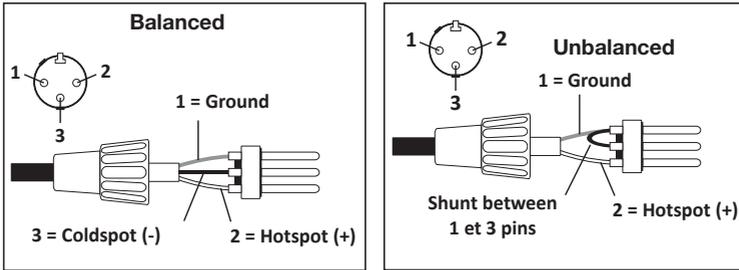
6.1 - Microphone inputs

The microphone inputs are accessible via XLR chassis and can receive both balanced and unbalanced low-level signals. Both low-impedance condenser and dynamic microphones can be connected (channels 1 and 2).

Inputs 1 and 2 deliver a +18V voltage required for condenser microphones when the phantom power supply is activated.



CAUTION: Connecting unbalanced sources while the phantom power supply is activated will cause severe damages to your devices due to the voltage delivered via pins 2 and 3.

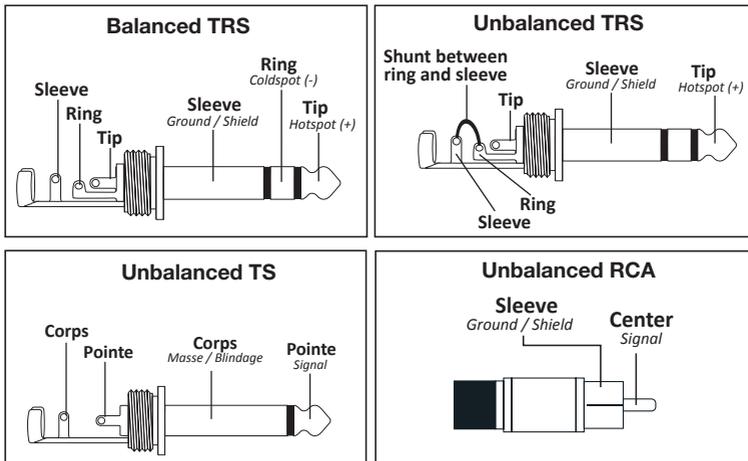


6.2 - Line-level inputs

Mono line-level inputs are accessible via Jack or RCA chassis and can receive both balanced and unbalanced signals. These inputs can be connected to CD players, MP3 players, Tuners or cassette players. When connecting unbalanced sources, you will be required to connect the ring to the body. You can also use the RCA inputs to connect CD or MP3 players, etc.



CAUTION: Turn the volume of affected channels at their minimum before connecting line-level signals to prevent serious damages to your amplification system.

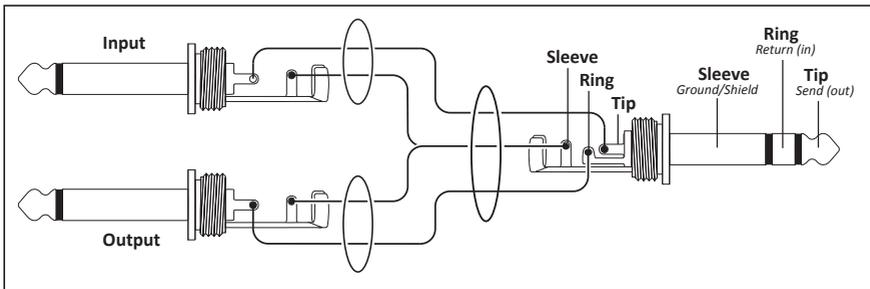
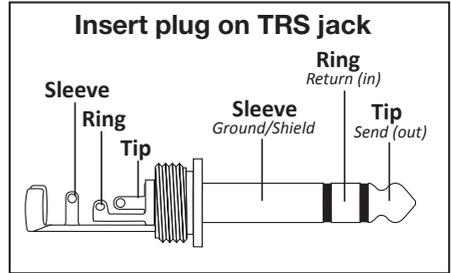


6.3 - Insert

The unbalanced insert point allows you to insert limiters, compressors, special equalizers or any other processors on the signal path. The insert (Stereo Jack 6.35 mm) features a closed contact. When inserting a Jack plug into this connector, the signal path will be cut. The channel signal is available via the TIP, while the signal feedback is available via the RING.

The mass is transmitted via the body.
The outgoing signals can be used as direct pre-fade and pre-equalizer outputs (the tip and the ring will then be short-circuited to prevent any signal path interruption).

You will be required to use Y-cables (as described below) if using devices with separated incoming and outgoing signals.



7 - Technical specifications

Output voltage	Balanced ZONE 1 and ZONE 2 outputs	0 dBm
	Unbalanced SUB output	0 dBm
	Unbalanced REC output	- 10 dBm
Input sensitivity	Balanced microphone inputs	- 60 dBm
	Balanced 1 to 6 line-level channels	- 30 dBm
	Unbalanced 7 to 10 line-level channels	- 30 dBm
	Unbalanced PRIORITY INPUT	0 dBm
	Insert	0 dBm
T.H.D at 1 KHz	Mic inputs towards ZONE outputs	Lower than 0,2%
	Line-level inputs towards ZONE outputs	
	Mic inputs towards SUB outputs	
	Mic inputs towards REC output	
Frequency response	20Hz ~ 20KHz	+/- 3 dB
Input equalization	HIGH (12,5 KHz)	+/-15 dB
	MID (2,5 KHz)	+/-15 dB
	HIGH (80 Hz)	+/-15 dB
Output equalization	HIGH (12,5 KHz)	+/-15 dB
	MID (2,5 KHz)	+/-15 dB
Residual noises	Lower than -90 dB	
Crossover distortion	At 1 KHz	Lower than -70 dB
Phantom power supply	+18V DC	
General information	Power supply	220~240V AC/ 50~60Hz or +24V DC
	Power consumption	16 Watts
	Weight	5.3 kg
	Dimensions	482 x 325 x 88 mm

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