

MIXING CONSOLES

L-PAD 6X

OWNER MANUAL
MANUALE UTENTE
MANUEL UTILISATEUR
MANUAL DEL USUARIO
BEDIENUNGS-ANLEITUNG

HIGH PERFORMANCE VERSATILE
COMPACT LIVE MIXERS

MIXER LIVE AD ALTE PRESTAZIONI
COMPATTO E VERSATILE

MÉLANGEURS LIVE HAUTE
PERFORMANCE COMPACTS
ET POLYVALENTS

MESAS DE MEZCLAS PARA
DIRECTO DE ALTO RENDIMIENTO,
COMPACTAS Y VERSÁTILES

DER VIELSEITIGE UND KOMPAKTE
HIGH-PERFORMANCE LIVE-MIXER



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SAFETY PRECAUTIONS

1. Read all precautions, in particular those related to safety, very carefully as they provide important information.

WARNING: to prevent the risk of fire or electric shock, never expose this product to rain or humidity.



WARNINGS

2. POWER SUPPLY FROM MAINS

- The mains voltage is sufficiently high to cause electrocution; install and connect the device before plugging it in.
- Before powering up, make sure that all the connections have been made correctly and the voltage of your mains corresponds to the voltage shown on the rating plate on the unit. Contact your RCF dealer if it does not.
- The metallic parts of the unit are earthed through the power cable. The device is a CLASS I apparatus and must be plugged into an earthed socket.
- Protect the power cable from damage; make sure it is positioned in a way that it cannot be stepped on or crushed by objects.
- To prevent the risk of electric shock, never open this product: there are no parts inside that the user needs to access.

3. Make sure that no objects or liquids get into the device, as this may cause a short circuit.

The device must not be exposed to drips or splashes. Do not place objects filled with liquid, such as vases, on the device. Do not place naked flames (such as lighted candles) on the device.

4. Never attempt to carry out any operations, modifications or repairs that are not expressly described in this manual.

Contact your authorized service centre or qualified personnel should any of the following occur:

- The device does not work (or works anomalously).
- The power cable has been damaged.
- Objects or liquids have got into the device.
- The device has been subject to a heavy shock.

5. Unplug the device if it will not be used for a long time.

6. Switch the device off immediately and unplug it if emission of strange odours or smoke is noticed.

7. Do not connect the device to any equipment or accessories other than those provided for the purpose.

For suspended installation, only use the dedicated anchoring points. Do not try to hang the device using unsuitable elements or elements which are not specific for this purpose. Also check the suitability of the support surface to which the product is anchored (wall, ceiling, structure, etc.), and the components used for attachment (screw anchors, screws, brackets not supplied by RCF etc.), which must guarantee the security of the system / installation over time, also considering, for example, the mechanical vibrations normally generated by transducers. To prevent the risk of falling, do not stack multiple units of the device unless this possibility is specified in the user manual.

8. RCF S.p.A. strongly recommends this product is only installed by professional qualified installers (or specialised firms) who can ensure correct installation and certify it according to the regulations in force.

The entire audio system must comply with the current standards and regulations regarding electrical systems.



IMPORTANT

9. Supports and trolleys

The equipment should be only used on trolleys or supports of the type recommended by the manufacturer, where necessary. The equipment / support / trolley assembly must be moved with extreme caution. Sudden stops, excessive pushing force and uneven floors may cause the assembly to overturn.

10. Numerous mechanical and electrical factors must be considered when installing a professional audio system (in addition to strictly acoustic factors, such as sound pressure, coverage angles, frequency response etc.).

11. Hearing loss

Exposure to high sound levels can cause permanent hearing loss. The sound pressure level which causes hearing loss is different from person to person and depends on the exposure time. Adequate protection devices must be used to prevent potentially dangerous exposure to high sound pressure levels. Ear plugs or protective ear muffs must be worn when a transducer capable of producing high sound levels is used. See the technical specifications in the manual for the maximum sound pressure level.

IMPORTANT NOTES

- To prevent the occurrence of noise on line signal cables, use screened cables only and avoid putting them close to:
- Equipment generating high-intensity electromagnetic fields
- Power cables
- Speaker lines



IMPORTANT
NOTES

OPERATING PRECAUTIONS

- Place the device away from sources of heat and always ensure an adequate air circulation around it.
- Do not overload this product for a long time.
- Never force the controls (buttons, knobs etc.).
- Do not use solvents, alcohol, benzene or other volatile substances for cleaning the external parts of the device.

IMPORTANT NOTES

Please read this instruction manual carefully and keep it on hand for future reference before connecting and using the device. The manual is an integral part of the device and must accompany it when it changes ownership as a reference for correct installation and use as well as for the safety precautions. RCF S.p.A. will not assume any responsibility for the incorrect installation and/or use of the device.



IMPORTANT
NOTES

INFORMATION ON THE DEVICE

Thank you for purchasing an RCF mixing consoles mixer.

L-PAD 6X is a versatile audio mixer equipped with all the tools needed for appropriately processing multiple audio signals from a variety of sources.

CLEAR SOUND

RCF mixing consoles devices combine RCF's professional "sound culture" heritage with innovative design and dedicated manufacturing. RCF mixing consoles secure clear sound, accurate sound dynamics and extreme versatility of use by passionate professional users. RCF mixing consoles mixers are designed to combine perfectly with RCF active speakers.

RELIABILITY

All RCF mixing consoles undergo four extensive instrumental quality tests during construction. A listening test is carried out at the end of production followed by a final quality control inspection to locate any appearance defects, such as scratches or dents. The process guarantees outstanding reliability and makes sure that the device you have purchased is of the highest quality.

DESIGN

The unique design of RCF mixing consoles is an expression of typically Italian RCF creativity. RCF mixing consoles combine modern, excellent ergonomic design.

In addition to their striking appearance, the original side profile of the mixers makes them easy to grasp securely.

FEATURES

Inputs

- 2 MIC XLR/line inputs with ¼ inch jack
- 2 stereo line inputs with ¼ inch jack
- 1 2TK inputs with RCA
- 1 stereo return with ¼ inch jack

Outputs

- 1 2TK output with RCA
- 1 MAIN MIX stereo output with ¼ inch jack
- 1 CONTROL ROOM stereo output with ¼ inch jack
- 1 PHONES stereo output with ¼ inch jack
- 1 FX SEND output with ¼ inch jack

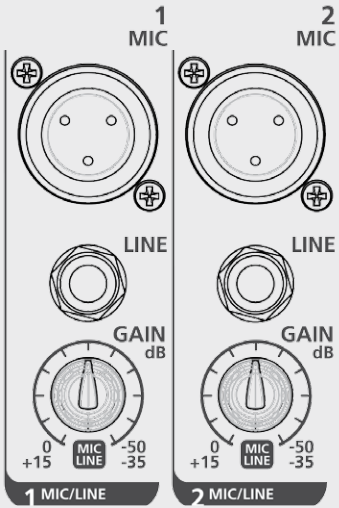
Other features

- 1 footswitch connector with ¼ inch jack for FX MUTE
- Three-band EQ on mono channels
- Dual-band EQ for stereo channels
- 1 FX SEND
- Internal Digital Effects: warm & bright hall, warm & bright room, vocal, plate, stereo delay, rev+delay, rev+chorus
- External PSU 220 V-230 V / 18 V~ 1000 mA

Physical specifications

- Dimensions: L = 275 mm, W = 195 mm, H = 75 mm
- Weight: 1.325 kg

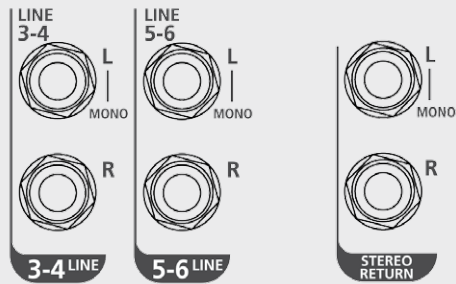
FUNCTIONS



MICROPHONE INPUT (Ch. 1 - Ch. 2) Connect your microphones to these balanced XLR connector: pin1=Earth, pin2=Hot, pin3=Cold. These inputs are provided with +48 V phantom power for condenser or electret microphones. Gain scale 0 dB/-50 dB.

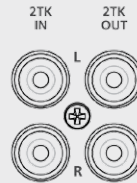
LINE INPUT (Ch. 1 - Ch. 2) Connect your line level devices to these TRS jack connector: tip=Hot, ring=Cold, sleeve=Earth.

GAIN (Ch. 1 - Ch. 2) This controls the level gain (0 dB/-50 dB for microphone input and +15 dB/-35 dB for line input when in use).



STEREO LINE INPUT (Ch. 3/4 - Ch. 5/6) Plug in your keyboard, line level or stereo devices into these balanced TRS jacks (Tip = Hot, Ring = Cold, Sleeve = Earth).

STEREO RETURN Connect signals from external devices, such as FX modules, to these unbalanced jacks.



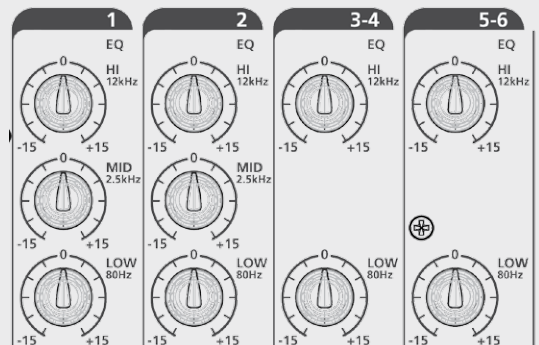
2TK IN – 2TK OUT These unbalanced RCA connectors are suitable for connecting audio player and recorder devices.

EQ: A three-band EQ is available for mono channels:

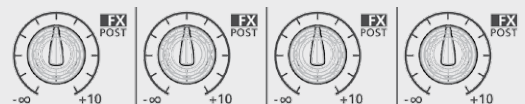
- HI = ±15 dB@12 kHz
- MID = ±15 dB@2.5 kHz
- LOW = ±15 dB@80 Hz

Dual-band EQ for stereo channels:

- HI = ±15 dB@12 kHz
- LOW = ±15 dB@80 Hz



FX POST: send the signal to the INTERNAL FX, level -∞ to +10 dB. The signal is routed to the FX SEND output jack. The signal is extracted in post-fader position.

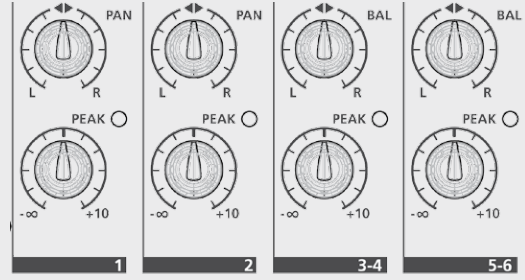


FUNCTIONS

PAN or BAL: This control defines the signal stereo imaging for mono channels or left-right balance for stereo channels.

KNOBS Ch. 1 - Ch. 2: MONO Channels level control

KNOBS Ch. 3/4 - Ch. 5/6: STEREO channels level control



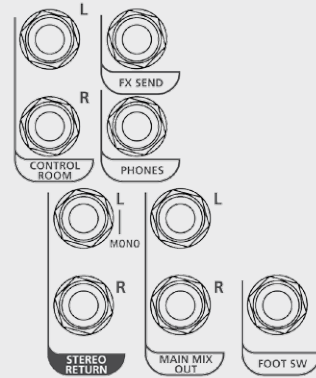
MAIN MIX output: Unbalanced TRS jack. Plug in your active speakers or main sound reinforcement system amplifier (for passive speakers) of here.

CONTROL ROOM output: Plug your studio monitor or local speakers into these TRS jacks.

FX SEND output: Plug a wedge stage monitor or external FX device into this TRS jack. The processed signal from the FX device is returned to the RCF mixing consoles mixer via the Stereo Return jacks.

PHONES: TRS stereo jack, Tip = Left, Ring = Right, Sleeve = Common Earth. Plug in your headphones here to listen to MAIN MIX or PFL when pressed.

FOOTSWITCH: TS connector, Tip = FX, Sleeve = EARTH. Connect a footswitch here. Press once to bypass the internal FX, press again to resume the FX. The same function is available for the FX MUTE button.



FX SELECTION: This 16-position selector can be used to select one of the 16 preset effects available on the internal DSP. See the FX LIST to select the required effect.

FX MUTE button: This switches the FX return signal on and off alternatively (see the red LED PEAK/MUTE). The function is the same as the FOOTSWITCH input jack.

+48V PHANTOM POWER ON-OFF switch: This switches the microphone input phantom power on and off. It must be employed when condenser or electret microphones are used.

OUTPUT LEVEL: These leds shows the level of the MAIN MIX OUTPUT. Keep under CLIP level to prevent generating distorted sounds or dangerous sound levels.

FX TO MAIN control: This defines the FX return level routed to the MAIN MIX output.

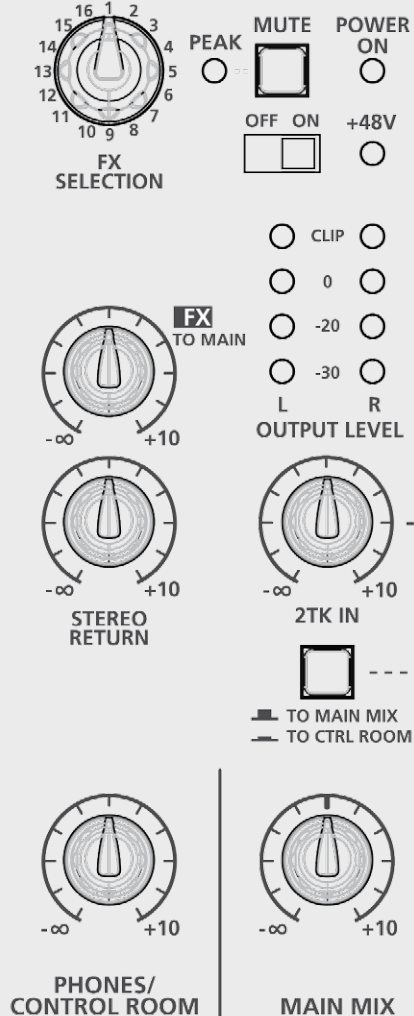
STEREO RETURN control: This defines the STEREO RETURN input signal level routed to MAIN MIX output.

2TK IN control: This defines the signal level from the 2TK IN.

TO MAIN MIX/TO CONTROL ROOM switch: Defines where to route the signal coming from 2TK IN: to MAIN MIX when in upper position, to CONTROL ROOM when pressed (lower position).

PHONES/CONTROL ROOM control: This defines the signal level routed to CONTROL ROOM output and PHONES output.

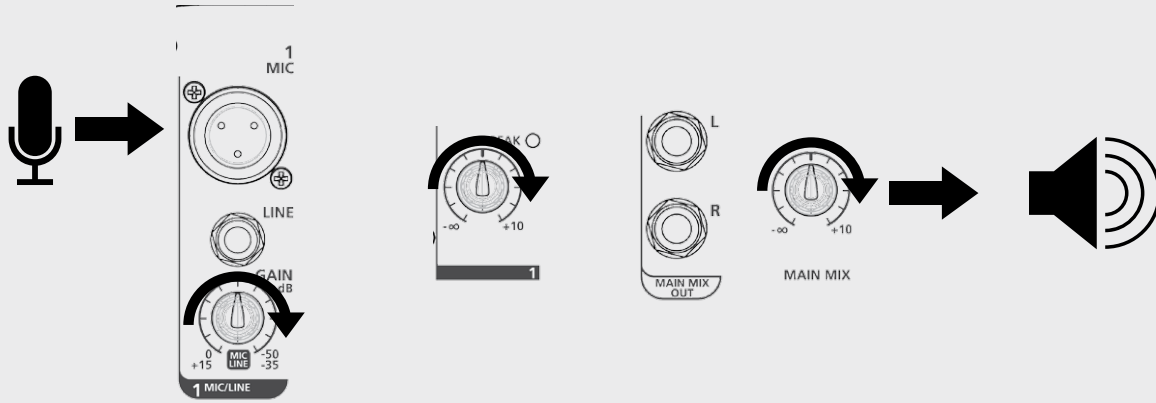
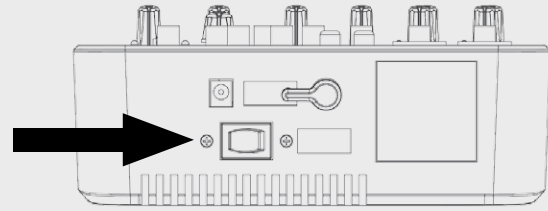
MAIN MIX KNOB: MAIN MIX output level control.



FUNCTIONS

HOW TO GET SOUND FROM A RCF mixing consoles MIXER

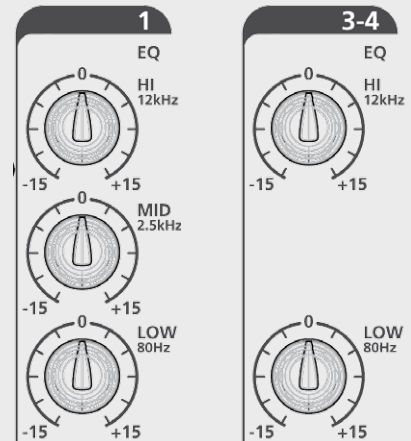
1. Turn your RCF mixing consoles mixer on.
2. Set all the knobs and controls to minimum position (0 or $-\infty$)
3. Plug a microphone into the XLR connector - MIC input of channel 1.
4. Adjusts GAIN according to MIC sensibility.
5. Connect your speaker system to the MAIN MIX output and turn it on.
6. Turn the channel knob up to "12 o'clock" position.
7. Carefully turn up the MAIN MIX fader to reach a reasonable sound level.
8. Enjoy the quality of your RCF mixing consoles mixer.



HOW TO IMPROVE THE SOUND

The RCF mixing consoles mixer implements several powerful tools to improve the sound quality of your music even more.

EQ: A three-band EQ is available on each mono channel, while a dual-band EQ is available on stereo channels 3-4 and 5-6. Adjust these parameters to subtract noise frequencies or magnify desired sounds.



- WARM HALL, BRIGHT HALL:** good for voices, electric and acoustic guitars and main instruments especially on ballad songs
- WARM ROOM, BRIGHT ROOM:** Suggested for percussions and drums.
- VOCAL:** Ideal for adding depth and intensity to leading vocals or solo instruments.
- PLATE:** good for snare drum or dynamic percussions
- STEREO DELAY:** Add this effect to the main vocals or electric guitar to create great effects.
- REVERB+DELAY:** Try this effect on brass and vocals.
- REVERB+CHORUS:** try on background vocals or brass section

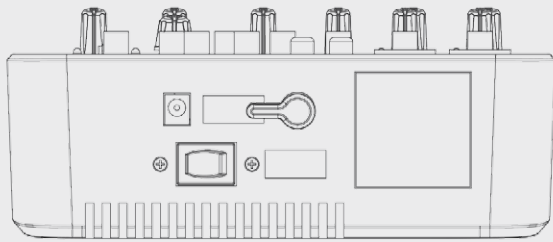


AVAILABLE ACCESSORIES

MOUNT ACCESSORIES

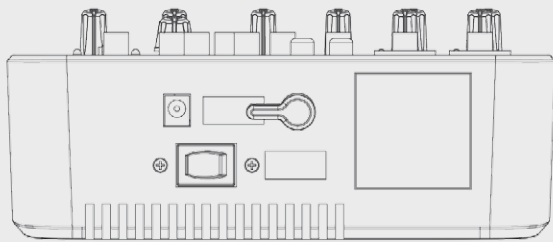
- Mic Stand mount accessory (RCF Part Number: 133 60 290)

**REAR PANEL / PANNELLO POSTERIORE / PANNEAU ARRIÈRE / PANEL TRASERO /
GERÄTERÜCKSEITE**



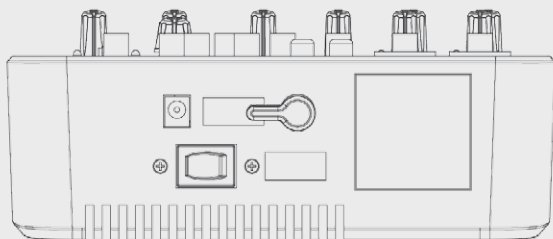
AC IN SOCKET for External Power Supply 18 V AC – 1000 mA.

ON-OFF SWITCH. Switches the mixer on and off



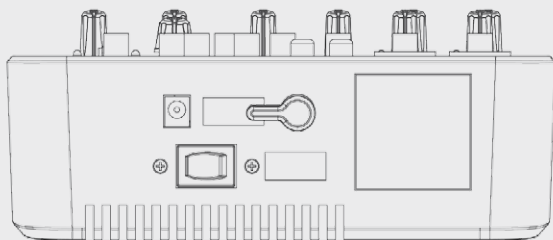
PRESA CA IN per l'alimentazione esterna 18 V CA – 1000 mA

INTERRUTTORE ON-OFF per accendere e spegnere il mixer



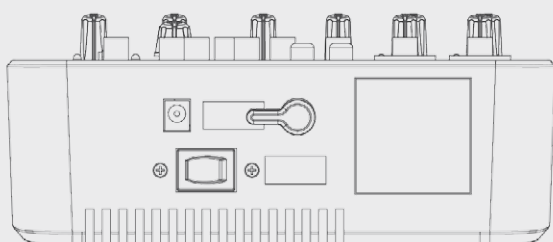
PRISE CA ENTRÉE pour alimentation électrique externe 18 V CA –
1 000 mA

INTERRUPTEUR MARCHE-ARRÊT Allume et éteint le mélangeur



TOMA AC IN Permite conectar una fuente de alimentación externa de
18 V CA, 1000 mA.

INTERRUPTOR DE ALIMENTACIÓN Permite encender y apagar la mesa
de mezclas.

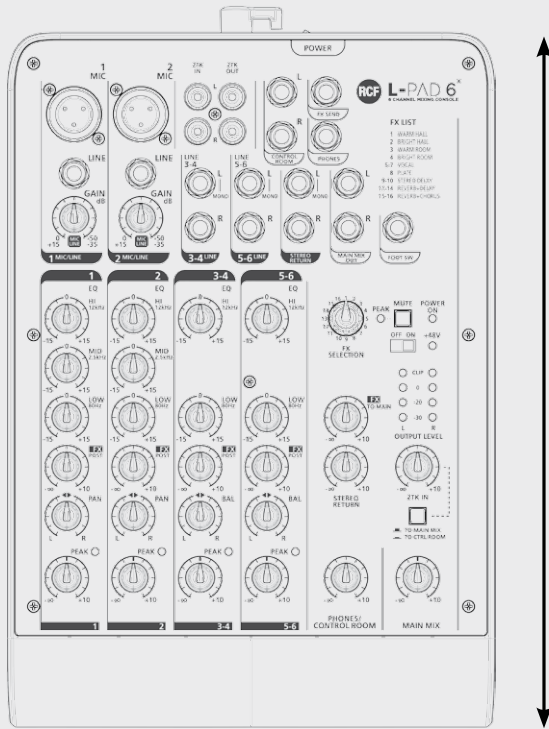
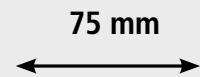
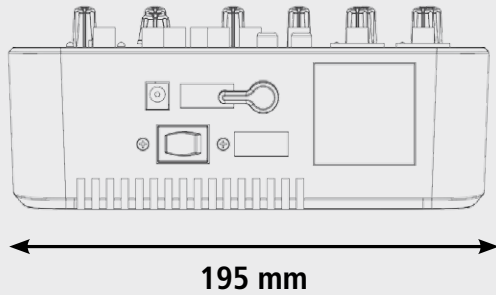


AC IN ANSCHLUSSBUCHSE für externe Stromversorgung 18 V AC –
1000 mA

ON-OFF SCHALTER Schaltet den Mixer ein und aus

**PHYSICAL SPECIFICATIONS / SPECIFICHE FISICHE / SPÉCIFICATIONS PHYSIQUES /
ESPECIFICACIONES FÍSICAS / PHYSIKALISCHE DATEN**

DIMENSIONS
DIMENSIONI
DIMENSIONS
DIMENSIONES
ABMESSUNGEN



Weight:
Peso:
Poids :
Peso:
Gewicht:
1.325 kg

ENGLISH

ITALIANO

FRANÇAIS

ESPAÑOL

DEUTSCH

Mono channels

Microphone input XLR balanced
 Frequency response 10 Hz to 55 kHz, +/-3 dB
 Distortion (THD+N) <0.03% @ +0 dB, 22 Hz~22 kHz A-weighted
 Gain range 0 dB to -50 dB
 Max. input +15 dB
 SNR <-100 dBr A-weighted
 Phantom power +48 V with switch control

Line input 1/4' TRS balanced
 Frequency response 10 Hz to 55 kHz, +/-3 dB
 Distortion (THD+N) <0.03% @ +0 dB, 22 Hz~22 kHz A-weighted
 Sensitivity range +15 dB~ -35 dB

Stereo input channels

Line input 1/4' TRS unbalanced
 Frequency response 10 Hz to 55 kHz, +/-3 dB
 Distortion (THD+N) <0.03% @ +0 dB, 22 Hz~22 kHz A-weighted
 Sensitivity range +22 dBu
 SNR <-100 dBr A-weighted

Channel EQ	Mono channel	Stereo channel
High	+/-15 dB @12 kHz	+/-15 dB @12 kHz
Mid	+/-15 dB @2.5 kHz	
Low	+/-15 dB @80 Hz	+/-15 dB @80 Hz

2-TRACK IN

TAPE IN RCA jack
 Frequency response 10 Hz to 55 kHz, +/-3 dB
 Distortion (THD+N) <0.03% @ +0 dB, 22 Hz~22 kHz A-weighted
 Gain range OFF to +10 dB

STEREO RETURNS

Input 1/4' TRS unbalanced
 Frequency response 10 Hz to 55 kHz, +/-3 dB
 Distortion (THD+N) <0.03% @ +0 dB, 22 Hz~22 kHz A-weighted
 GAIN range OFF TO +10 dB
 SNR <-100 dBr A-weighted

Impedances

Microphone input 3.6 kΩ
 All other inputs 10 kΩ or higher
 Tape out 1 kΩ
 All other outputs 120 Ω

DSP section

A/D and D/A converters 24 bit
 Type of effects warm hall, bright hall, warm room, bright room, vocal, plate, stereo delay, rev+delay, rev+chorus
 Controls 16-position presetting selector | Mute switch & footswitch with LED indicator
 Footswitch TIP: FX SLEEVE: EARTH

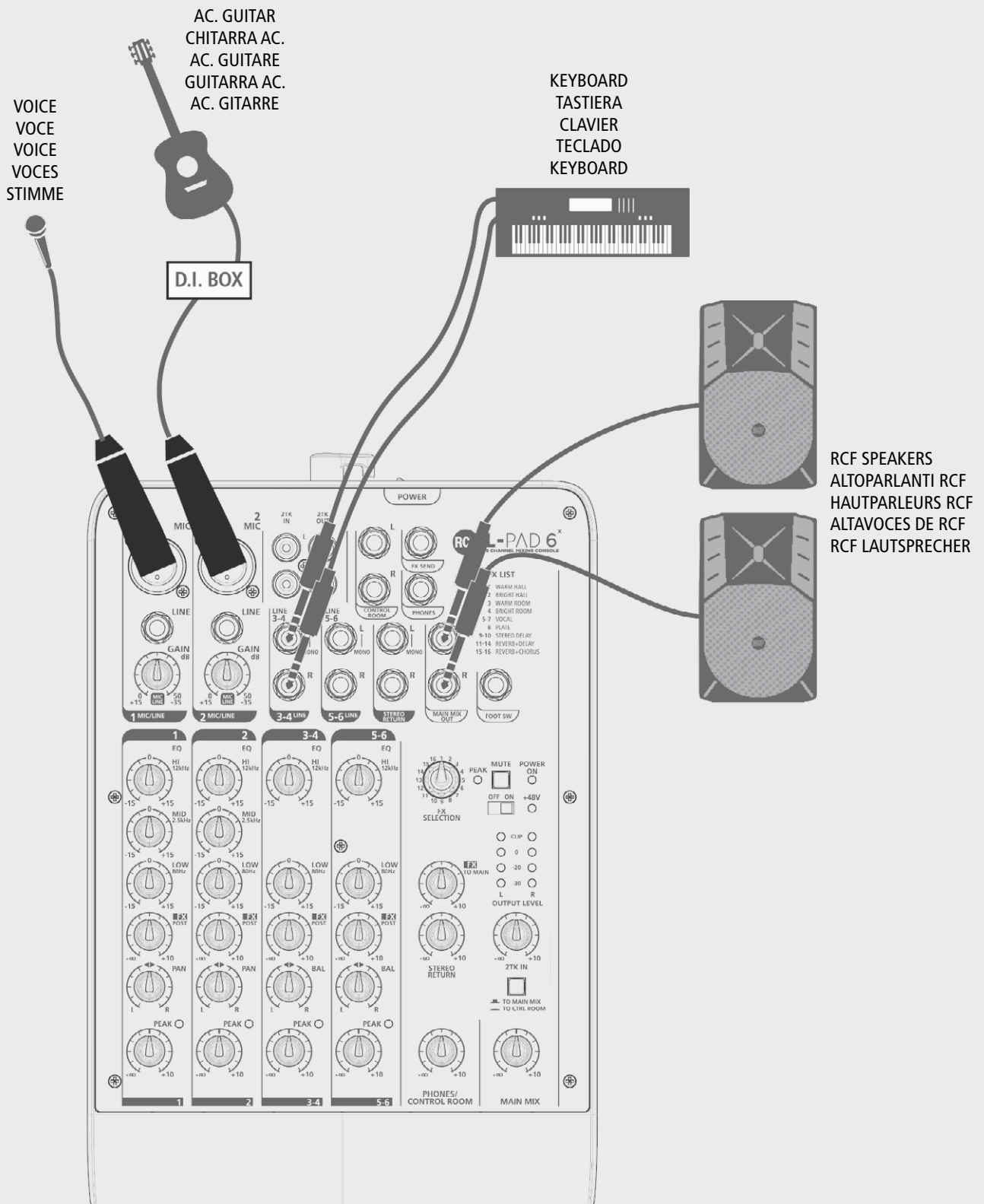
Main mix section

Max. MAIN MIX output +22 dBu unbalanced
 AUX range OFF to +10 dB
 Fader range OFF to +10 dB
 PHONES/CONTROL ROOM range OFF to +10 dB
 Hum & noise <-80 dB @ 20 Hz~22 kHz A-weighted, 1 channel & MAIN level:0 dB,the other :minimum
 Crosstalk <-80 dB @0 dB 20 Hz~22 kHz A-weighted, MAIN level: 0 dB, other channels: minimum

Power supply

AC adaptor 18 V AC 1000 mA
 Power consumption 17 W (all loaded)

CONFIGURATION EXAMPLE / ESEMPIO DI CONFIGURAZIONE / EXEMPLE DE CONFIGURATION / EJEMPLO DE CONFIGURACIÓN / KONFIGURATIONSBEISPIEL





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