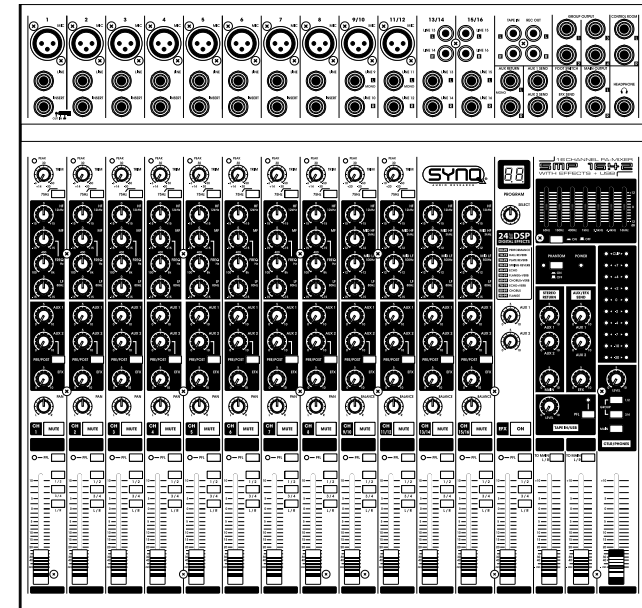


16 CHANNEL PA-MIXER SMP 16.42 WITH EFFECTS + USB



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Operation Manual EN
Mode d'emploi FR
Gebruiksaanwijzing NL
Bedienungsanleitung DE
Manual de instrucciones ES
Manual do utilizador PT



V1.0





EN - DISPOSAL OF THE DEVICE

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

FR - DÉCLASSER L'APPAREIL

Débarrassez-vous de l'appareil et des piles usagées de manière écologique Conformément aux dispositions légales de votre pays.

NL - VERWIJDEREN VAN HET APPARAAT

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

DU - ENTSORGUNG DES GERÄTS

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

ES - DESHACERSE DEL APARATO

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su pais.

PT - COMO DESFAZER-SE DA UNIDADE

Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

OPERATION MANUAL

Thank you for buying this SYNQ® product. To take full advantage of all possibilities, please read these operating instructions very carefully.

FR : Merci d'avoir choisi ce produit SynQ®. Vous pouvez télécharger la version française de ce mode d'emploi de notre site Web: www.synq-audio.com

NL: Hartelijk dank voor de aankoop van dit SynQ® product. U kan de Nederlandstalige versie van deze handleiding downloaden via: www.synq-audio.com

DE: Vielen Dank, dass Sie sich für den Erwerb dieses SynQ®-Produkt entschieden haben. Sie können sich die Deutsche Version dieses Benutzerhandbuchs von unserer Website herunterladen: www.synq-audio.com

ES: Gracias por comprar este producto SynQ®. Puede descargar la versión en Español de este manual de usuario en nuestra página Web: www.synq-audio.com

PT: Obrigado por ter adquirido este produto da SynQ®. Pode fazer o download da versão Portuguesa deste manual no nosso website: www.synq-audio.com

FEATURES

This unit is radio-interference suppressed. This appliance meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

- 16 channel PA-mixing console with very low noise architecture.
- 4 subgroups with independent sub-masters
- Internal 24bit DSP-effect unit with 100 presets & foot switch
- USB in/out for direct recording to PC
- 12 balanced input channels, 8 Mono + 4 stereo channels:
 - Input gain
 - Inserts on mono channels
 - Peak indication @ -5dB
 - High pass filter @ 75Hz
 - 3band equalizer with parametric mid
 - 1 AUX send pre (monitoring)
 - 1 AUX send with pre/post switch
 - EFX send for effects section (post)
 - PAN/BAL control
 - Channel mute button
 - PFL-switch
 - LEVEL with 60mm fader control
 - L-R and subgroup 1-2 3-4 select
- 48V Phantom power available on all balanced microphone inputs
- Use of external effects possible
- Balanced Main L/R + subgroup output controls
- Headphone and control room output
- 2x 10 section LED VU-meters
- 7band equalizer on master mix
- External power transformer
- 19" brackets for easy rack mounting included

BEFORE USE

- Before you start using this unit, please check if there's no transportation damage. Should there be any, do not use the device and consult your dealer first.
- **Important:** This device left our factory in perfect condition and well packaged. It is absolutely necessary for the user to strictly follow the safety instructions and warnings in this user manual. Any damage caused by mishandling is not subject to warranty. The dealer will not accept responsibility for any resulting defects or problems caused by disregarding this user manual.

- Keep this booklet in a safe place for future consultation. If you sell the fixture, be sure to add this user manual.
- To protect the environment, please try to recycle the packing material as much as possible.

Check the contents:

Check that the carton contains the following items:

- User manual
- SMP16.42 mixer
- 2 rack mount adapters + 6 screws
- Power supply

SAFETY INSTRUCTIONS:



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user or the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.



This symbol means: indoor use only



This symbol means: Read instructions



This symbol means: Safety Class II appliance

- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance or may even cause damages.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. No objects filled with liquids, such as vases, shall be placed on this appliance. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- No naked flame sources, such as lighted candles, should be placed on the appliance.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Minimum distances around the apparatus for sufficient ventilation is 5cm.
- Always unplug the unit when it is not used for a longer time or before you start servicing.
- The electrical installation should be carried out by qualified personal only, according to the regulations for electrical and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated on the rear panel of the unit.
- The socket inlet shall remain operable for disconnection from the mains.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!
- In order to avoid a hazard, the unit shall only be used with the AC-adaptor delivered with it. If the AC-adaptor is damaged, a same model adaptor shall be used only.
- When the power switch is in OFF position, this unit is not completely disconnected from the mains!
- This appliance must be earthed to in order comply with safety regulations.
- In order to prevent electric shock, do not open the cover. Apart from the mains fuse there are no user serviceable parts inside.

- **Never** repair a fuse or bypass the fuse holder. **Always** replace a damaged fuse with a fuse of the same type and electrical specifications!
- In the event of serious operating problems, stop using the appliance and contact your dealer immediately.
- Please use the original packing when the device is to be transported.
- Due to safety reasons it is prohibited to make unauthorized modifications to the unit.

INSTALLATION GUIDELINES:

- Install the unit in a well-ventilated location where it will not be exposed to high temperatures or humidity.
- Placing and using the unit for long periods near heat-generating sources such as amplifiers, spotlights, etc. will affect its performance and may even damage the unit.
- The unit can be mounted in 19-inch racks. Attach the unit using the 4 screw holes on the front panel. Be sure to use screws of the appropriate size. (screws not provided). Take care to minimize shocks and vibrations during transport.
- When installed in a booth or flight case, please make sure to have good ventilation to improve heat evacuation of the unit.
- To avoid condensation to be formed inside, allow the unit to adapt to the surrounding temperatures when bringing it into a warm room after transport. Condense sometimes prevents the unit from working at full performance.

CLEANING THE APPLIANCE:

Clean by wiping with a polished cloth slightly dipped with water. Avoid getting water inside the unit. Do not use volatile liquids such as benzene or thinner which will damage the unit.

CONNECTIONS

For more information on connections, please refer to the next chapter.

Be sure to turn off the mixer before you make changes to the different connections.

In this manual we talk about "line inputs". This is a global name for inputs with a level between 750mV and 2V. This includes tuners, videos, CD-players, etc.

FUNCTIONS

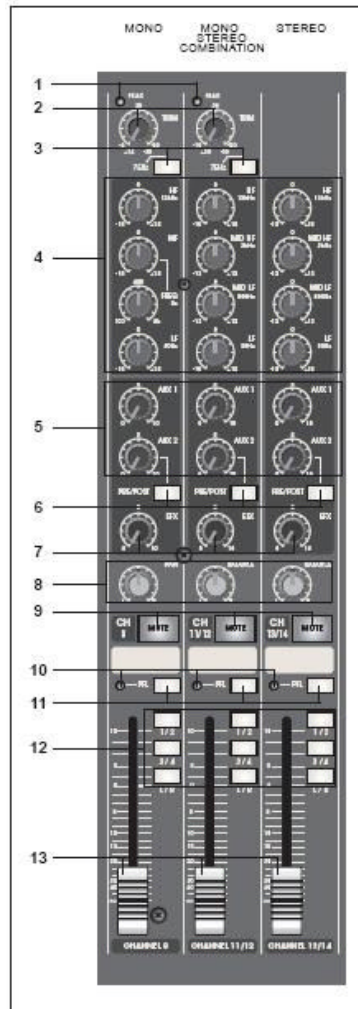
INPUT CHANNEL CONTROL

1. PEAK LED INDICATOR

This LED indicator shows the level of the signal input of the channel. The peak indicator lights up when the input signal reaches 5dB below the channel's clipping point. This indicator shows the level of the Post-EQ/ pre-fader signal. If the PEAK indicator lights more than briefly on high-level transients, you should use the TRIM control to decrease the input sensitivity of the channel. If this does not work, reduce the output level of the connected source.


2. TRIM CONTROL

According to the level of the input signal, use this knob to adjust the input to an appropriate level. The best balance of S/N and dynamic range will be achieved if you adjust the TRIM control so that the peak indicator lights occasionally. This control adjusts the channel's MIC input sensitivity between -50dB and -6dB and the line input sensitivity between -30dB and +14dB.



The mono/stereo combination input channels have a sensitivity of +20dB to -20dB

3. HPF(High-Pass Filter)

This switch toggles the HPF on or off. To turn the HPF on, press the switch In (). The HPF cut frequencies below 75Hz

4. EQUALIZER MONO CHANNEL

This 3-band equalizer adjusts the channel's high, mid and low frequency bands. Setting the knob to the "0" position produces a flat frequency response. Turning the knob to the right boosts the corresponding frequency band, while turning to the left cuts the band.

For the mid tones, you can select the exact frequency that you want to adjust with the blue FREQ button. You can select a frequency from 100HZ to 8KHZ. Then you can boost or reduce the level of this frequency by turning the white mid level button.

The following table shows the EQ type, frequency, and maximum cut/boost for each of the three bands.

CONTROL	MAX. BOOST/CUT	FREQUENCY	TYPE
HIGH	±15dB	12kHz	Shelving
MID	±15dB	100HZ-8KHZ (Variable)	Peaking
LOW	±15dB	80Hz	Shelving

STEREO CHANNEL

This 4-band equalizer adjusts the channel's high, high-mid, low-mid and low frequency bands. Setting the knob to the "0" position produces a flat frequency response. Turning the knob to the right boosts the corresponding frequency band, while turning to the left cuts the band. The following tables shows the EQ type, base frequency, and maximum cut/boost for each of the 4 bands.

CONTROL	MAX. BOOST/CUT	FREQUENCY	TYPE
HIGH	±15dB	12kHz	Shelving
HIGH MID	±12dB	3kHz	Peaking
LOW MID	±12dB	500HZ	Peaking
LOW	±15dB	80HZ	Shelving

5. AUX CONTROL

AUX 1 CONTROL

This AUX1 knob controls the signal level that the channel sends to the AUX1 bus.

If you are using stereo channels, the signals from the L and R channels are mixed and send to the AUX1 bus.

These controls are placed before the channel fader (pré-fader), what means that it's level is not influenced by the position of the channel fader. Pré-fader aux outputs are mainly used to control stage monitors

AUX 2 CONTROL

The AUX2 knob controls the signal level that the channel sends to the AUX2 bus.

If you are using stereo channels, the signals from the L and R channels are mixed and send to the AUX1 bus.

The AUX 2 controls can be switched as pré fader or post fader controls. Pré-fader aux outputs are not influenced by the position of the channel fader and are mainly used to control stage monitors. Post-fader Aux outputs are also influenced by the channel faders and are mainly used with effect modules.

6. PRE/POST SWITCH

This button determines whether the AUX2 signal will be used in Pre or Post fader configuration. Pre means not affected by the position of the channel fader. Post means is affected by the position of the channel fader. Note that switch applies to AUX2 only.

7. EFX CONTROL.

This knob controls the level of the signals sent to the EFX bus (to the EFX SEND jack on the front panel and to the internal effect module). The channel signals mixed by this bus have their overall level set by the EFX SEND Control.

Since this control is placed after the channel fader, the signal level will be affected by the channel fader's setting.

8. PAN /BAL CONTROL**PAN (Mono Channel)**

This control pans the channel signal across the master L and R busses, thus determining the perceived position of the sound from that channel in the output stereo sound field. If a PAN control is set all the way to the left, for example, the sound from that channel will be heard from the left speaker system only.

If it is set all the way to the right, the sound will be heard from the right speaker system only.

Intermediate settings will cause the sound to appear at corresponding locations in the stereo sound field.

BALANCE (Stereo Channel)

This control adjusts the balance or the L/R position of the stereo input signal.

Turning the BALANCE control to the left moves the apparent source toward the MAIN MIX L bus, turning it to the right moves the source toward the MAIN MIX R bus.

9. MUTE SWITCH

The mute function is on when the button is pressed in. This cuts all the signal feeds that are normally sent to the MAIN L/R outputs, to GROUP 1-2/3-4, to the AUX and the EFX busses. The switch lights up orange to indicate that the mute function is on.

10. PFL INDICATOR

This indicator lights up when the PFL switch is turned on.

11. PFL SWITCH

When this switch is depressed, the channel input signal can be routed to the PFL bus.

This switch allows you to monitor the pre-fader channel input signal through the headphone outputs and the control room outputs.

12. ASSIGN SWITCHES

Use these switches to send the channel's signal to the Group 1-2, Group 3-4 and/or MAIN L/R busses.

When the switch is in its down position (on), the signal will be sent to the corresponding group busses.

13. CHANNEL FADER

This is the channel's main level control. It determines the level of the signal that is sent from the channel to the master mixing, group outs and post fader effect busses. It is the settings of the input channel faders that determine the mix, or the balance of sound levels between the instruments or other sources connected to the inputs. When a channel is not being used, its fader should be set at the minimum position to prevent the addition of unwanted noise to the main program signal.

MAIN CONTROL SECTION**1. DSP PROGRAM DISPLAY**

The selected DSP effect number is shown on the display.

2. DSP PROGRAM SELECT SWITCH

Turn the program knob to select one of the 100 built-in digital effects. The 24 Bit Digital Effects processor provides high quality effects like Delay, Chorus and Reverb.

3. AUX PRE CONTROL

Adjust the level of the signal sent from the internal Digital effect to the AUX1 and AUX2 busses. Like this you can also send for example some effect into your stage monitors

4. DSP ON/OFF SWITCH

This switch turns the internal digital effect on/off.

5. PFL SWITCH

Set this switch on if you wish to output the effect signal to the PFL bus.

6. PFL INDICATOR

This indicator lights when the PFL switch is turned on.

7. ASSIGN SWITCHES

Use these switches to send the effect's signal to the Group 1-2, Group 3-4 and/or MAIN L/R busses. When the switch is in its down position (on), the signal will be sent to the corresponding group busses.

8. EFX RTN Fader

Adjust the level of the signal sent from the internal digital effect to the MAIN and GROUP busses.

9. GROUP FADER (1-2, 3-4)

This fader adjusts the output level of the GROUPS.

10. TO MAIN SWITCH

If this switch is on, the mixer sends the signals processed by the GROUP faders onto the MAIN L/R bus. The Group 1/3 signals are sent to MAIN L and the Group 2/4 signals are sent to MAIN R.

11. MAIN L/R MASTER FADERS

Adjusts the final output level of the MAIN L/R OUTPUTS.

12. RETURN CONTROL

- AUX1 and AUX2 Control
Adjust the level of the signal coming from the RETURN jacks (L (MONO) and R), routed to the AUX1 and AUX2 Busses.

- MAIN L/R Control
Adjusts the level of the signal coming from the RETURN jacks (L (MONO) and R), routed to the MAIN L/R bus.

13. MASTER AUX/FX SEND

- AUX1 and AUX2 Control
Controls the general output level of all the AUX1 / AUX2 channel signals, that will be sent to the AUX1 SEND and AUX2 SEND jack outputs.

- EFX Control
Controls the general output level of all the EFX channel signals, that will be sent to the EFFECT unit and to the EFX jack output.

Remark: if this level is set to zero, no audio signal will be sent to the effect unit.

14. TAPE IN PFL INDICATOR

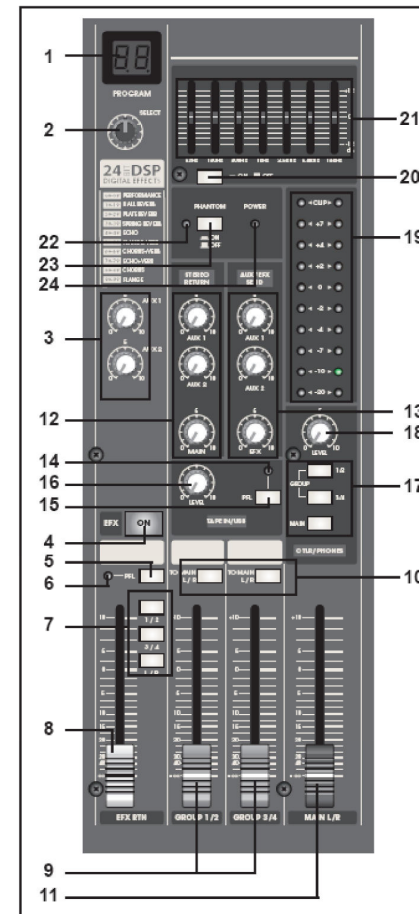
This indicator lights when the TAPE IN PFL switch is turned on

15. TAPE IN PFL SWITCH

Set this switch on if you wish to output the TAPE IN signal to the PFL bus



16. TAPE IN CONTROL

This knob controls the level of the playback signal that is coming from the TAPE IN RCA connectors, and that will be routed to the MAIN L/R output.



17. LEVEL METER SIGNAL SWITCHES

These level-meter switches, together with the channel PFL switches, select the signal that is sent to the CONTROL ROOM OUT jacks, the HEADPHONE jack, and the LEVEL METER.

- If the input channel's PFL switch is on , then only the channel's PFL output is sent to the CONTROL ROOM OUT jacks, the HEADPHONE jack, and the LEVEL METER.
- If the input channel's PFL switch is off , then the MAIN L/R signal, GROUP1-2 signal or GROUP 3-4 signal can be monitored via the CONTROL ROOM OUT jacks, the HEADPHONE jack, and the LEVEL METER. Use the MAIN or the GROUP switches to select the desired output to listen to.

18. CTRL ROOM /PHONES CONTROL

Controls the signal level of the PHONES and CONTROL ROOM outputs.

19. LEVEL METER

This LED display shows the level of the signal selected by the selection switches, like described in the LEVEL METER SIGNAL SWITCHES (17) above. The "0" point corresponds to the standard output level of +4dB.

20. MAIN EQ ON/OFF Switch

The EQ ON/OFF switch is used to engage or bypass the MAIN EQUALIZER. When the switch is in the down position, the EQ is on and when the switch is up, the EQ is bypassed.

21. MAIN STEREO EQUALIZER

The MAIN STEREO EQUALIZER allows you to control the frequency response of the MAIN stereo mix bus signal. Providing a maximum of 12dB of cut/boost for each frequency band, this Graphic EQ is also extremely useful tool for cutting the frequencies that cause annoying feedback. Since the MAIN GRAPHIC EQUALIZER is stereo, the EQ curve is applied to both the left and right signal of the MAIN OUTPUT.

22. PHANTOM POWER INDICATOR

This indicator lights up when the phantom power is switched on.


23. PHANTOM POWER SWITCH

This switch toggles the phantom power on or off. If you set the switch on, the mixer supplies power to all channels that provide XLR MIC input jacks.

Set this switch on when using one or more condenser microphones that need to receive external power from the mixer.

NOTE: When this switch is on, the mixer supplies DC +48V power to pins 2 and 3 of all XLR-type MIC INPUT jacks.

* Be sure to leave this switch off () if you do not need phantom power.

* When tuning the switch on (), be sure that only condenser MICs are connected to the XLR input jacks.

Devices other than condenser MICs may be damaged if connected to the phantom power supply.

Note, however, that the switch may be left on without problem when connecting to balanced dynamic microphones.

* To avoid damage to speakers, be sure to turn off amplifier (on powered speakers) before turning this switch on or off.

We also recommend that you turn all out controls (MAIN master fader, ALT3/4 fader, etc.) to minimum settings before operating the switch, to avoid risk of loud noises that could cause hearing loss or device damage.

24. POWER INDICATOR

This indicator lights when power switch of the mixer is turned on.

CONNECTORS



1. CHANNEL INPUTS

BALANCED MIC XLR Connectors

These are balanced XLR-type input jacks (1: Sleeve, 2: Hot, 3:Cold)

BALANCED LINE IN JACK Connectors

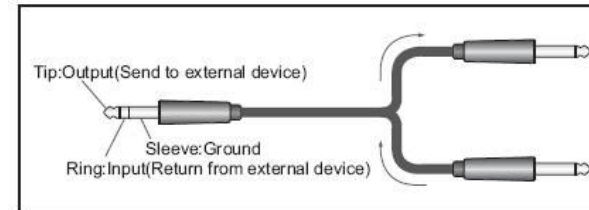
A standard 1/4" TRS phone jack is used for balanced or unbalanced line level signals, like used with most electronic keyboards, synthesizers, tape decks and the line outputs from other mixers.

2. CHANNEL INSERT I/O JACK

These are input/output jacks located between the head-amplifier and the high pass filter.

These jacks can be used to independently connect these channels to devices such as graphic equalizers, compressors, and noise filters. These are 1/4" TRS (tip, ring, sleeve) phone jacks that support bi-directional operation.

NOTE: Connection to an INSERT I/O jack requires a special separately-sold insertion cable such as illustrated below.



3. CHANNEL INPUT JACKS

These are unbalanced stereo line input connectors. Two types are provided: Jack type and RCA pin type.

For stereo signals, you need of course to connect both Left and Right channels.

Channels CH9/10 and CH11/12 can also be used for mono signals. If you need to connect a mono signal, then use only the L MONO Jack input. When the mixer detects no connector in the R input, it will spread the signal of the L MONO Jack input over both L and R channels.

NOTE: Channels 13/14 and 15/16 provide 2 types of inputs: jack and RCA connectors. Please use only one of these inputs for each channel. Never use both input types at the same time on the same channel.

4. STEREO RETURN L (MONO), R JACK

These are unbalanced 1/4" TRS phone-type line input jacks. The signal received by these jacks is sent to the MAIN bus and AUX1/AUX2 busses. These jacks are mainly used to receive a return signal from an external effect (reverb, delay, etc.)

NOTE: These jacks can also be used as an auxiliary stereo input. If you need to connect a mono signal, then use only the L MONO Jack input. When the mixer detects no connector in the R input, it will spread the signal of the L MONO Jack input over both L and R channels.

5. TAPE IN RCA connectors

Use these RCA connectors when you want to connect a CD, DAT or other external sound source directly to the mixer for

monitoring.
You can adjust the signal level using the TAPE IN control in the MAIN CONTROL SECTION.

6. REC OUT RCA connectors

The REC OUT connectors send the pre-fader signal from the master bus. You can use this output for recording.

7. SEND JACKS

These are unbalanced phone jacks

* **AUX1, AUX2**

These jacks output respectively the signal from AUX1 and AUX2 bus. You can use these jacks, for example to connect powered stage monitors.

* **EFX**

You can use this jack for example to connect an external effect unit.

8. FOOT SWITCH JACK

A foot switch can be connected to this phone input jack and can be used to turn the digital effects ON/OFF.

9. GROUP OUT (1 to 4) JACKS

Unbalanced 1/4" Jack outputs for the signals of GROUP 1-2 / 3-4.

10. MAIN L/R OUTPUT JACKS

Balanced 1/4" Jack outputs. You can use these outputs to connect the power amplifiers for your main speakers, or you can use them when you wish to record the signal that is also influenced by the main output faders.

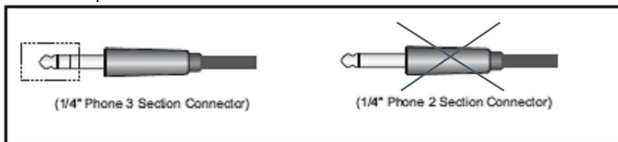
11. CONTROL ROOM OUTPUT JACKS

These unbalanced 1/4" Jack outputs are controlled by the CTRL ROOM /PHONES CONTROL and are generally used to connect a monitoring system.

NOTE:The signal monitored by these outputs is selected by the settings of the LEVEL METER SIGNAL SWITCHES, the TAPE IN switch, and the PFL switches on the input channels.

12. PHONES JACK

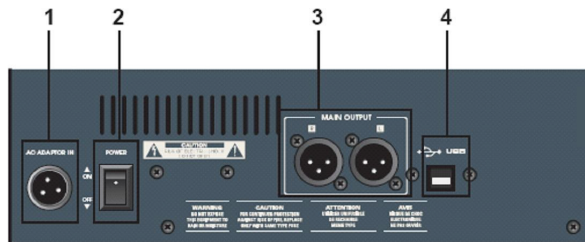
Stereo headphones connector.



NOTE:

The signal monitored by these jacks is selected by the settings of the LEVEL METER SIGNAL SWITCHES, the TAPE IN switch, and the PFL switches on the input channels.

REAR PANEL



1. POWER SUPPLY CONNECTOR

Connect the included power supply here. Replace this power supply only with exactly the same type number. Use of a different adaptor may result in fire or electric shock.

2. POWER SWITCH

Used to switch the mixer on/off. We strongly advise to set the master output faders of the mixer and the gain controls of your amplifier to zero before you switch the mixer on or off

3. MAIN L/R OUTPUT.

Used to connect the master output (Main L/R) of the mixer to a power amplifier (or other equipment)

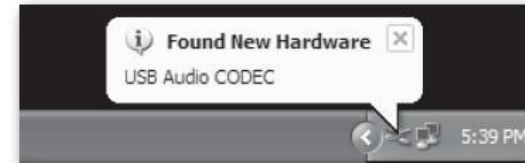
4. USB PORT

The built-in stereo USB audio interface allows you to connect your mixer to a PC for recording or playback. Virtually any digital recording software can be used.

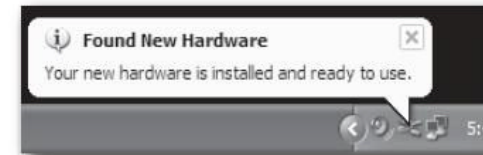
The PC/Mac will detect your mixer as a sound card, so normally no drivers are needed. This means also you will be able to use the standard audio interface controls in the MAC or Windows operating system to make all the settings.

Getting Started with Windows XP

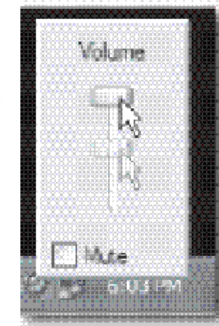
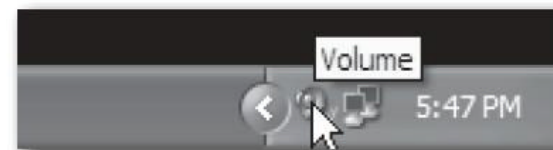
The first time you plug the mixer into a USB port, Windows will install the universal drivers for that port. A balloon tip will pop up, telling you it has found the USB Audio codec.



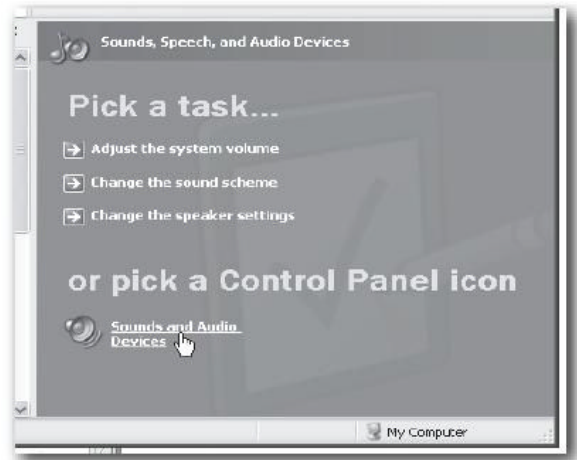
When the installation is ready, the message "Your new hardware is installed and ready to use" will appear



Most of the time, you'll want the output volume from the computer at its maximum position, but sometimes the default setting is much lower, what makes the output level too low. The volume can be increased in several ways. The simplest is to click the loudspeaker icon (figure 3) in the system tray and drag the slider to the top



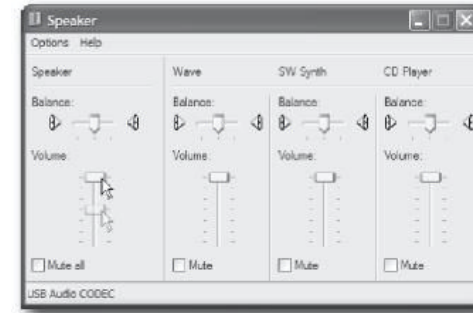
If the icon is not there, the volume can be changed by going to Control Panel and opening Sounds and Audio Devices.



To use the mixer as your default input/output device (for system sounds and audio recording software), ensure that it is set for playback and recording in the Audio tab.



The volume can then be set by pressing the Volume button



Getting Started with MAC OS X

Connect the mixer to your mac by using a standard USB cable. The LED will light up to indicate it is receiving USB power. The MAC will recognize the USB audio device and automatically install a universal driver. To select the mixer as the computer's audio input, open the System Preferences from the dock or the main Apple Menu.



Next: open the Sound preferences.



Now, click on the Input tab and select USB Audio Codec. You may notice that the Volume slider sets itself to the highest level. This will allow you to use the level controls of the mixer at their full range.



Then click on the Output tab and select USB Audio Codec. You may notice that the Volume slider sets itself to the full level. You may notice that the Volume slider sets itself to the highest level. This will allow you to use the level MAIN controls of the mixer to set the exact output level.



Recording to the USB I/O

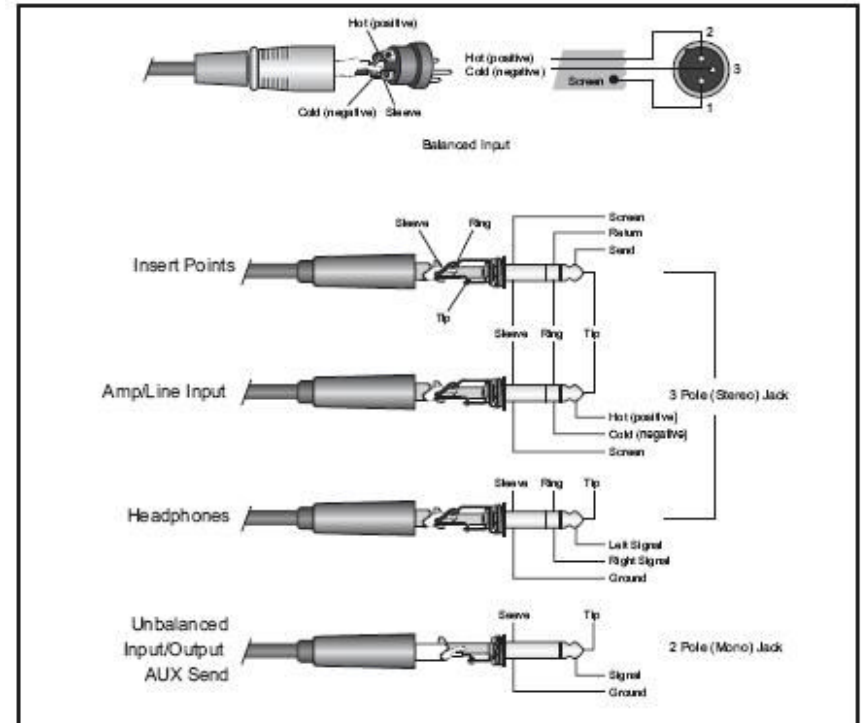
For recording a live performance, you can send the main output mix to a computer by using the USB I/O connector. The output signal will only be influenced by the individual channel settings and channel faders, not by the MAIN L/R master output fader.

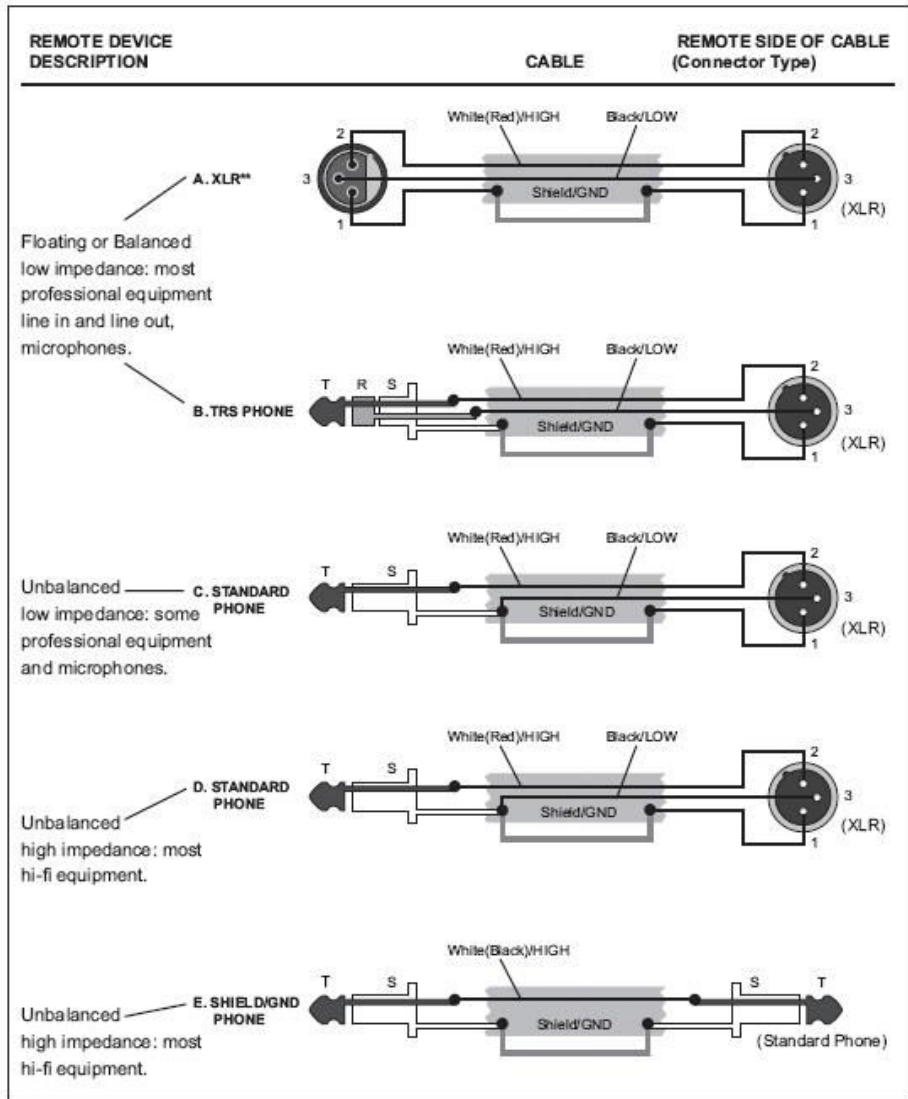
You can also assign the outputs of the AUX1 and AUX2 to the USB out, enabling you to build a stereo mix for recording that's independent from the house sound system. Press the USB SEND switch down to send the AUX1 and AUX2 mix to the USB input.

Playback from the USB I/O

For playback, the USB stereo signal goes directly via the TAPE IN to the MAIN OUTPUT mix of the console. You can set the USB playback level by using the TAPE/USB volume knob.

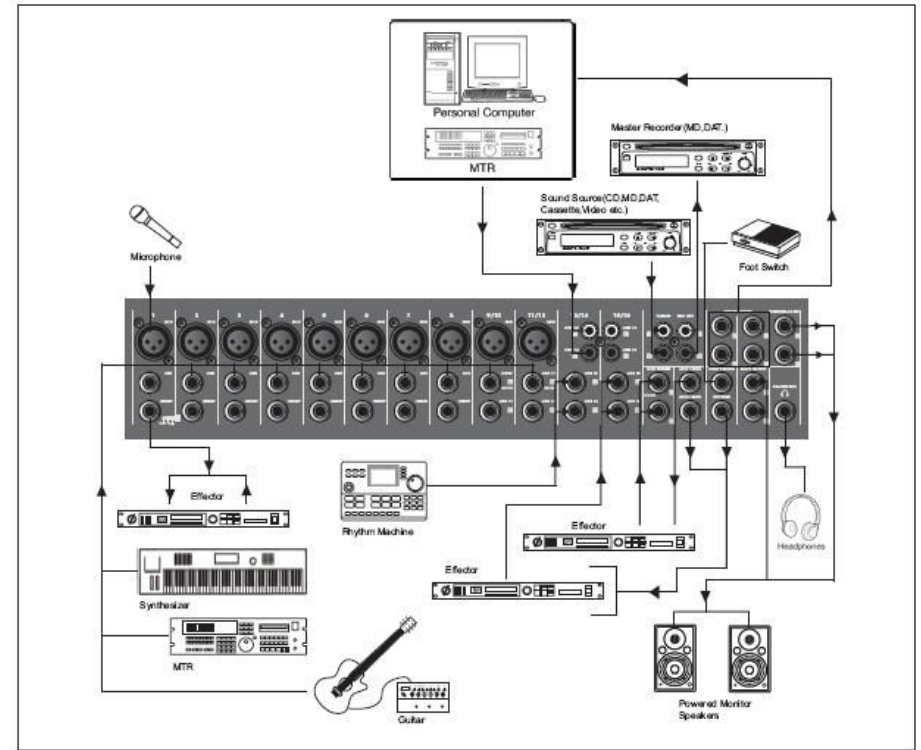
WIRING



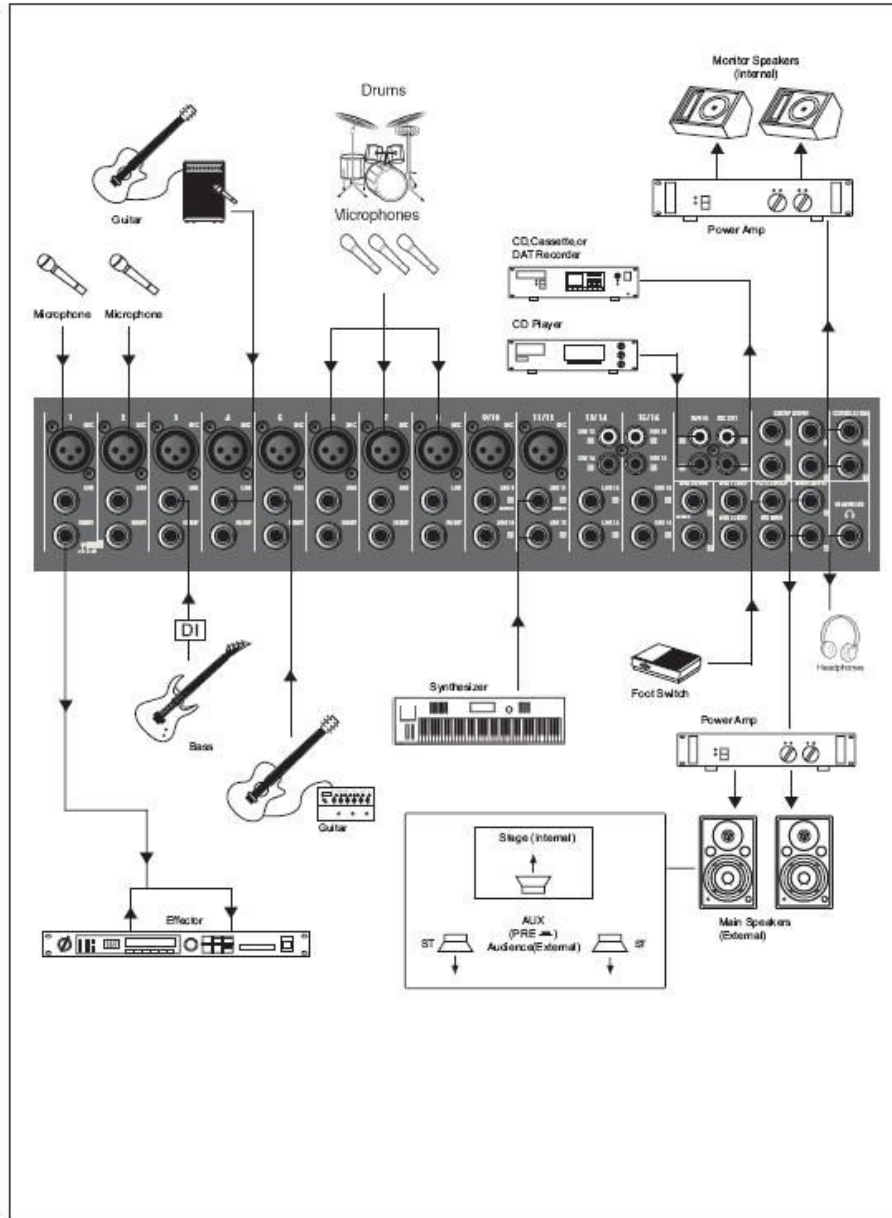


APPLICATIONS

HOME RECORDING



Sound Reinforcement For Live Performance



SPECIFICATIONS

Power Supply	AC 230 V, 50Hz
Power consumption	40W
Max output level (0.5% thd @ 1kHz)	+26dB (MAIN L/R) @ 10kOhm +20dB (GROUP 1-2/3-4, AUX1, AUX2/EFX, CTRL ROOM) @ 10kOhm +20dB (INSERT) @ 10kOhm More than 100mW (HEADPHONES* @33Ohm)
T.H.D.	<0.1% @ +14dB 20Hz~20kHz (MIX L/R, GROUP 1-2/3-4, AUX1, AUX2/EFX SEND, CTRL ROOM) @10kOhm
Frequency response	20Hz~20kHz, +1~-2dB (MIX L/R, GROUP 1-2/3-4, AUX1, AUX2/EFX SEND, CTRL ROOM) @10kOhm
Hum and Noise (average Rs=150Ohm)	-127dB equivalent input noise -95dB residual noise (MIX L/R, GROUP 1-2/3-4, AUX1, AUX2/EFX SEND, CTRL ROOM) -88dB (MIX L/R, GROUP 1-2/3-4, AUX1, AUX2/EFX SEND, CTRL ROOM OUT) Master fader at nominal level and all channel assign switches off.
Maximum Voltage Gain	74dB MIC IN TO Main L/R 74dB MIC IN TO GROUP 1-2/3-4 66dB MIC IN TO AUX1/AUX2 (PRE) 76dB MIC IN TO AUX2 (POST) 76dB MIC IN TO EFX 80dB MIC IN TO CONTROL ROOM L/R 52.2dB IN TO REC L/R 54dB LINE IN TO MIX L/R 54dB LINE IN TO GROUP 1-2/3-4 46dB LINE IN TO AUX1 / AUX2 (PRE) 56dB LINE IN TO AUX2 (POST) 60dB LINE IN TO CONTROL ROOM L/R 44dB STEREO IN TO MAIN L/R 44dB STEREO IN TO GROUP 1-2/3-4 16dB AUX RETURN IN TO MIX L/R 12dB AUX RETURN IN TO AUX1/AUX2 20dB TAPE IN TO MAIN L/R
Crosstalk (@ 1kHz)	-70dB between input channels -70dB between input/output channels
Gain Control (mono input channel)	44dB Variable (-50dB ~ -6dB) (-30dB ~ +14dB)
Gain Control (combined mono/stereo input channel)	40dB Variable (-20dB ~ +20dB)
Mono input channel Equalization	HIGH: 12kHz shelving MID: 100-8kHz peaking LOW: 80Hz shelving *Turnover/roll off frequencies: located 3dB below max. boost/cut
Stereo input channel Equalization	HiGH: 12kHz shelving HIGH MID: 3kHz peaking LOW MID: 500Hz peaking LOW: 80Hz shelving *Turnover/roll off frequencies: located 3dB below max. boost/cut
Graphic Equalizer	7-band (63, 160, 400, 1K, 2.5K, 6.4K, 16KHZ)
LED Meters	2x 10 segment LED for MAIN L/R, GROUP1-2/3-4 or PFL
Internal Digital Effect	100 selectable presets FOOT Switch control (ON/OFF)
Channel indicators	Peak: an indicator for each channel turns on when the pré-channel fader signal is 5dB below clipping
Phantom Power (balanced input)	+48V DC
Weight	5,36 kg
Dimensions	436(W) x 90(H) x 420(D) mm

Specifications

-INPUT

Input Connector	Input Impedance	Nominal Impedance	Rated Input Level	Connector Type
CH Mic	4kΩ	50 ~ 600Ω	-50dB	XLR Female Type Balanced
CH Line	10kΩ	600Ω	-30dB	Phone Jack (TRS) T = Hot R = Cold S = GND
Stereo Input Mic	3kΩ	600Ω	-44dB	XLR Female Type Balanced
Stereo Input	5kΩ	600Ω	-20dB	Unbalanced Phone Jack
Mono Channel Insert Input	10kΩ	600Ω	0dB	Phone Jack (TRS) T = Out R = In S = GND
Tape In	10kΩ	600Ω	-10dBV	RCA pin Jack

-OUTPUT

Output Connector	Output Impedance	Nominal Impedance	Rated Output Level	Connector type
MAIN Out L/R	240Ω	20KΩ	+4dB	Balanced Phone Jack/XLR Jack
Group 1-2/3-4	75Ω	10KΩ	+4dB	Unbalanced Phone Jack
CTRL Room Out	75Ω	10KΩ	+4dB	Unbalanced Phone Jack
Aux1 / Aux2 / EFX Send	75Ω	600Ω	+4dB	Unbalanced Phone Jack
Rec Out	600Ω	10kΩ	-10dBV	RCA pin Jack
Phones Out	100Ω	33Ω	3mW	Stereo Phone Jack

Every information is subject to change without prior notice
 You can download the latest version of this user manual on our website: www.beglec.com

