SKP PRO AUDIO
Sound, Knowledge & Passion

english

VZ-40II / VZ-60II
POWERED MIXER

USER MANUAL



IMPORTANT SAFETY INSTRUCTIONS

- Follow all the instructions and keep this manual for future references
- Do not use this device near water presence.
- Use a clean and dry cloth to clean it. Do not use chemical products.
- Do not block any ventilation openings. Install in accordance with the manufacturer instructions.
- Do not install near any heat sources such as radiators, heaters, stoves or other devices (including amplifiers) that produce heat and avoid putting it under direct sunlight.
- Keep the device away from any source that produces humming such as transformers or engines.
- The product has a polarized or grounding- type plug as a security device. A plug of this kind has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician to replace the old outlet. Do not force the plug to fit the outlet and do not try to change it.
- The outlet where the device is plugged must be near and easy to get to.
- Use only the accessories specified by the manufacturer.
- Use only with a cart, stand or table specified by the manufacturer or that has been sold with the product. If a cart is used, be careful when moving the device or the table to avoid damages.
- Do not force the switches, keys or buttons.
- Unplug this equipment during lightning storms or when it is not used for a long period of time.
- Before moving the apparatus, unplug the power supply and all the connection cables.
- Refer all servicing to qualified service personnel. Servicing is required when the device has been damaged in any way.
- Make sure the grid specifications match those specified in the equipment
- Keep this manual in a safe place for future references.

This equipment has been tested and found to comply with the limits for a Class B digital device,pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection againstharmful interference in a residential installation. This equipment generates uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing measures:
Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.
Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.

GENERAL CONSIDERATIONS

- Keep out of the reach of children.
- Be sure to place the box in a safe and stable.
- Do not overload the box, avoid damage to the structure and internal.
- Indoor use is recommended; if used outdoors, make sure that no moisture in the box.
- Do not place a flame (eg candles) near or on the box. - Fire Hazard
- Just plug into an outlet with a ground connection
- When not in use, unplug the unit from the mains.
- Unplug the power plug before checking or replacing the fuse.
- To hang the box, only use approved mounting hardware.
- During installation, make sure that nobody is standing under that area.
- Do not place liquids on the case and protect it from moisture; can significantly shorten the life of the equipment.
- Use appropriate means of transport in case you want to move the box. Watch your back.
- If the unit has not been used for a long period, can cause condensation inside the housing; please allow the unit to reach room temperature before use.
- Never attempt to repair the unit yourself. Contains exclusive parts inside.
- Pull the cable so that no one falls on it or put anything on it.
- Set the minimum volume before starting

WARNING
To reduce the risk of fire or electric shock, do not expose this device to rain or moisture.
Do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids are placed on the equipment.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

The lightning bolt triangle is used to alert the user of the existence of dangerous voltage that can cause an electric shock.

The exclamation mark inside a triangle is used to alert the user of the existence of important operating or maintenance instructions.

CAUTION
To avoid an electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the plug's blades completely fit into the outlet.

FEATURES

- RMS stereo power Output 200W + 200W @ 4 ohm.
- Mono Microphone and Line Input Channels
- Purity Preamps™ Ultra-low noise discrete Mic Preamps with +40V Phantom Power
- Extremely high headroom – offering more dynamic range
- Balanced inputs for Highest signal integrity
- 2-band EQ on all channels
- Peak LED all Channels
- PFL function
- Aux Send per channel for external effects and monitoring
- 16-Digital Delay System inside
- Highly accurate 5 segment Bar-graph Meters
- Separate Master Mix Outputs
- 5-Band Graphic Equalizer
- Direct MP3 UDB recording
- USB/SD Digital Media Player
- Bluetooth®

TECHNICAL SPECIFICATION

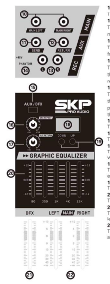
Microphone Input:	Balanced XLR
Microphone input impedance:	1.8kΩ (balanced)
Max. Mic input level:	7dBu – 1.7V (Min. gain @ 1kHz before clipping)
Microphone Gain Range:	50dB (50mV IN @ 1kHz)
Line input:	¼" TRS
Line input impedance:	10kΩ
Max. Line input level:	19dBu – 7.1V (Min. gain @ 1kHz before clipping)
Line Gain range:	40dB (200mV IN @ 1 kHz)
Distortion (THD+N):	<0.01%
Frequency Response:	20Hz- 20kHz ±2dB
EQ by channels:	Low 80 Hz ±15dB / High 12kHz ±15dB
EQ Master:Aux Send output:	(80Hz/350Hz/1kHz/4kHz/12kHz) (+/-12)
Aux Send output:	Unbalanced ¼" TS
impedance:	120 Ω (unbalanced)
Max. Aux Send level:	22dBu
Aux. Return input:	Unbalanced ¼" TS
Aux. Return impedance:	10 kΩ (unbalanced)
Max. Aux Return input level:	19dBu – 6.8V (Min. gain @ 1kHz before clipping)
Tape Out impedance:	1kΩ
Main Output:	Balanced ¼" TRS
Powered Main Output:	Speakon / ¼" TRS
Phones Output:	¼" TRS
Max. Phones output level:	22dBu
DSP Converter:	24 bit
Effect:	Delay / 1-16.4ms/ 2-32.8ms/ 3-49.2ms/ 4- 65.6ms/ 5-81.8ms/ 6-98.2ms/ 7-114ms/ 8-131ms/ 9-147ms/ 10-164ms / 11- 180ms/ 12- 196ms/ 13- 213ms/ 14- 229ms/ 15- 245ms/ 16- 262ms
MP3 Player:	
Compatible audio formats:	MP3, WAV, WMA
Power Supply:	110V/ 220V – 60/50 Hz

CONTROL PANEL INSTRUCTIONS



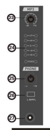
1. MIC INPUTS
This is a fremale XLR connector that accepts a balanced microphone input from almost any type of microphone. This kind of circuit is excellent at rejecting hum and noise.
2. MONO LINE INPUTS
This 1/4" jacks can be driven by unbalanced sources.
3. TRIM
This control is used to adjust input sensitivity. For microphone signals allows to change the gain between 0 and 50dB with a range of input sensitivity +15 to -35dB.
4. EQUALIZER
All mono channels have 2-band EQ with HI frequency and LOW frequency.
HIGH EQ
The HI EQ provides up to 15 dB of boost or cut above at 12 kHz.
LOW EQ
The LOW EQ provides up to 15 dB of boost or cut below 80Hz.
5. AUX/DFX
Adjust ECHO effect of each channel.
6. PAN
Adjust signal on left and right channel, to reach the best effect.
7. PFL (Pre-fader Listen) switch
When you turn this switch on, the pre-fader signals of the input channel are routed to the PFL.
8. PEAK indicator
To display the signal intensity of input.
9. Channel fader
This fader is used to adjust the level of the input channel signals.

CONTROL PANEL INSTRUCTION



10. MAIN OUTPUT
The 1/4" jack connector provide a main mix output.
11. AUX SEND
This jack are typically used to connect to an effect or monitor system.
12. AUX RETURN
This jack are typically used to receive a return signal from an external effect.
13. REC OUTPUT
These are unbalanced RCA-pin output jacks.You use these jacks,for example,to connect to an external recorder.
14. PHANTOM POWER
This switch toggles phantom power on and off. Press this switch in if your microphone requires phantom power. A red LED above will illuminate to indicate that phantom power is active.
15. AUX/DFX SWITCH
This button use for switch between AUX and EFFECT.
16. EFF REPEAT
This is use for adjusting the depth of ECHO.
17. AUX RETURN
This is used of adjusting volume of echo aux sound when return aux signal to used jack.
18. EFFECT DISPLAY
This display show the number of the currently selected effect preset.
19. DOWN/UP
This is use for choosing effects.
20. GRAPHIC EQUALIZER
This is used for adjusting the tone of output signal.
21. EFFECT FADER:
This is used for adjusting the degree of effect signal level.
22.MAIN OUTPUT
These are the master fader that control the signal level at the MAIN OUTS.

CONTROL PANEL INSTRUCTION



23. MP3 CONTROL
This is used for control the volume of MP3.
24. LEVEL METER
This LED display shows the degree of output level. The indicator lights up red when the output hits the clipping level.
25. PHONE CONTROL
This control the volume at the phones output.
26. PFL(PreFader listen) Switch
This switch lets you monitor the channel's pre-fader signal.
27. PHONE JACK
Connector for headphones.

REAR PANEL INSTRUCTION



28. POWER SWITCH
Press the top of this rocker switch to turn on the mixer.The front panel power LED will glow if the mixer is plugged into a suitable live AV mains supply.
29. POWER CONNECTION
This is used for power adaptor.Before you plug the AC power cord into the mixer,make sure that the voltage of your unit is the same voltage as your local mains supply.
30. VOLTAGE SELECTOR
Be very careful and check that the voltage is that of your region before turning on the console.
31. SPEAKER-LEVEL OUTPUTS
These outputs connections provide speaker-level output power from the internal power amplifier to your passive speakers.
32. VENTILATION
This hole in the rear panel allow the internal fan flow breezy and minty-fresh cooling air over the internal power amplified.

MP3 MODULE FUNCTIONS

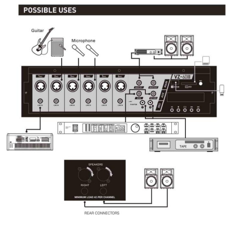


1- USB INPUT. Use this input for connect your devices.
2- SD INPUT. Use this input for connect your devices.
3- DISPLAY.
4- PLAY AND PAUSE. Long press:optional one loop playback/All loop playback/Random loop playback.
5- STOP. Short press to stop the current music, long press to stop and then back the first.
6- MODE BUTTON. Press to change USB/SD/REC
7- PREVIOUS BUTTON. Short press for previous song, long press for turn down the volume.
8- NEXT BUTTON. Short press for next song, long press for turn up the volume.

RECORD MODE FUNCTION

1- Short press PLAY and then START and PAUSE record.
2- Long press PLAY. Save the current record file.
3- Short press MODE. Save record file and switch to next state.
4- Every record file will auto save to the last music.

POSSIBLE USES



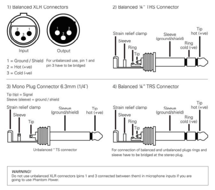
INSTALLATION

You have got to this point and you are now in the position to successfully operate your mixing console. However, we advise you to read carefully the following section to be the in total control of your own mixer. Not paying enough attention to the input signal level, to the routing of the signal and the assignment of the signal will result in unwanted distortion, a corrupted signal or no sound at all. So you should follow these procedures for every single channel:

- Before connecting mics or instruments, make sure that the power of all your systems components including the mixer is turned off. Also, make sure that all input and output controls of your mixer are turned down. This will avoid damage to your speakers and avoid excessiv noise.
- Properly connect all external devices such as mics, power amplifiers, speakers, effect processor etc.
- Now turn on the power of any peripheral devices, then power up the mixer.
- Note: the power amplifier or powered monitors shall be turned on after the mixer and turned off before the mixer.
- Set the output level of your mixer or the connected power amplifier at no more than 75%.
- Set the CONTROL ROOM/PHONE level at no more than 50%.
- Position HIGH, MID and LOW EQ controls on middle position.
- Position panoramic (PAN/BAL) control on center position.
- While speaking into the mic (or playing the instrument), adjust the channel Level control so that the PEAK LED will blink occasionally, in this way you will maintain good headroom and ideal dynamic range.
- You can shape the tone of each channel by adjusting the equalizer controls as desired.
- Now repeat the same sequence for all input channels. The main LED could move up into the red section, in this case you can adjust the overall output level through the MAIN MIX control.
- You can connect unbalanced equipment to balanced inputs and outputs. Simply follow these schematics.

CABLE CONNECTIONS

You will need a great number of cables for the different connections of the console.
The pictures below show how to connect them. Be sure of using connectors of good quality.



WARNING!
Do not use unbalanced XLR connectors (pins 1 and 3 connected between them) in microphone inputs if you are going to use Phantom Power.

TROUBLESHOOTING	
The equipment does not turn on	• Is the equipment connected to a proper AC net through the voltage cable provided by the manufacturer?
No sound	• Are the microphones and other sound sources correctly connected to the equipment inputs? • Are the gain controls and faders correctly adjusted? Is the main output fader up?(MAIN MIX)
The sound is weak, distorted or noisy	• Are the gain controls and faders correctly adjusted? Is the main output fader up?(MAIN MIX) • Are two different instruments connected to the XLR microphone input and TRS line of the same channel? Please connect only one input instrument per channel. • Has the input signal the correct level to get to the equipment? • Are you using effects at the correct level? • Are the microphones connected to the XLR inputs?
I want to hear the voices clearly	• Adjust the equalization parameters of each channel.

If the problem continues, please contact the repair service.

NOTES