

User Instructions >>>

This booklet contains important information concerning the proper and safe operation of your new sub crossover.

Sub Crossover | PX-22SUB Made in Taiwan



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CAUTION: To reduce the risk of electrical shock, do not remove the cover (or back). No user serviceable parts inside; refer servicing to qualified personnel.

WARNING: To reduce the risk of fire or electrical shock, do not expose this appliance to rain or moisture.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

Important Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture.
- Make sure that the AC Mains voltage is correct and matches the voltage painted on the rear panel of the unit (110 V or 220V)
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in a safe and stable manner.
- Power cords should be routed so they are not likely to be walked on, pinched by items placed upon or against them.
- Cleaning -The outside of the unit should be wipe down with a soft cloth and mild cleaner when needed.
- Heat -The unit should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the unit.
 - C. The appliance has been exposed to rain or water.
 - D. The fixture does not appear to operate normally or exhibits a marked change in performance.

Introduction

PX-22SUB

Thank you for purchasing the PX-22SUB. This manual contains important information about installing and operating the unit correctly and safely. Read this manual carefully before using the unit.

The PX-22SUB has been developed using the latest computer aided electronic design systems. All electronic components used in the PX-22SUB have been carefully selected to meet demanding quality control procedures carried out by our staff of engineers.

The unit is designed to be mounted in a standard 19" rack. Its height is one DIN-unit. For rack

mounting, there are four holes in the front panel to fasten the units to a rack with metric screws.

Due to continuous investigation and development, UNiKA reserves the right to change the specifications of the product and the content of this manual without prior notice. Please check the UNiKA website for the latest updates.

If the product requires repairing or if you need information about the warranty, please contact an approved UNiKA distributor.

The PX-22SUB DESCRIPTION:

The PX-22SUB device is an active stereo sub-woofer two way crossover, featuring two inputs and four outputs, active filters can be applied in the four outputs with a preset crossover point selectable with the crossover switch. The system can be fine-tuned with the output level control knobs and phase polarity of the sub-woofer output can be switched to achieve desired results. This unit was developed to be easily operated and for rough handling. For this purpose, PX-22SUB uses hi quality, carefully selected components, improved design, reliable performance, and simple appearance for intuitive operation.

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Front Panel Control



Figure 1

1. **Power Switch** - Press this rocker switch to turn the power ON or OFF.
2. **Cross-over Point** - Three positional switches, each determine the cross-over frequency point of the unit. The selectable cross-over frequency points are: 80Hz, 100Hz or 125Hz.
3. **Sub Phase** - Used to reverse the phase of the sub signal.
4. **Input Signal Indicator** - Two input signal indicator LEDs, each represent left and right input. LEDs will be lit when there are audio signal is fed to the input.
5. **Sub-Bass Level Control Knob** - Used to adjust the output level of the signal below the selected cross-over point.
6. **High Level Control Knob** - Used to adjust the output level of the signal above the selected cross-over point.
7. **Sub-bass Clip** - This LED is lit when the output of Sub-bass signal is distorted.
8. **Hi Clip** - This LED is lit when the output of Hi signal is distorted.

Rear Panel Control

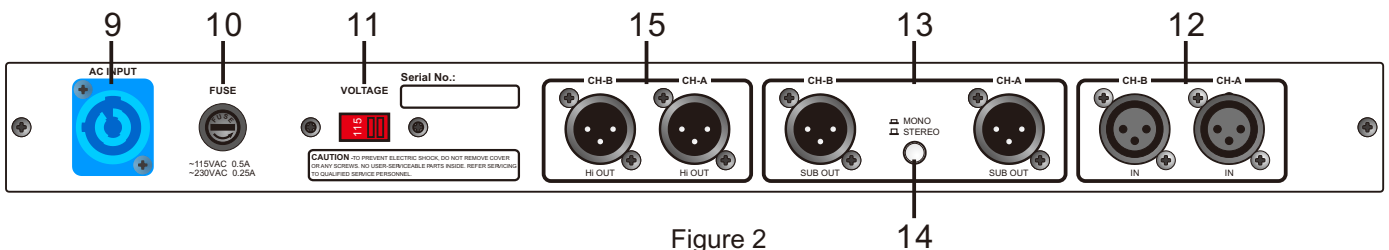


Figure 2

9. **Main Power Connector** - The mains power AC input is via a Neutrik powerCON connector, rated at 20A. The power supply must be connected to AC mains using a power cable with a correctly wired plug for the country of operation.
10. **Fuse Holder** - This holder houses the external 0.5 amp fuse. Always replace with the exact the same type fuse unless otherwise instructed.
11. **Input Voltage Selector** - The input voltage selector can be 115V AC or 230V AC (+/-5%).
12. **Input – XLR** - Every unit is equipped with balanced inputs. { 1Gnd. = Ground, 2 = (+) Hot, 3 = (-) Cold }
13. **Sub-Bass Outputs – XLR** - Sub-Bass signal outputs. They send the signal which is below your cross-over frequency point. Every unit is equipped with balanced Outputs. { 1Gnd. = Ground, 2 = (+) Hot, 3 = (-) Cold }
14. **Sub-Bass Output Mode Switch** - The switch is used to select to output of the unit to run in Stereo or Mono mode. When in Stereo Mode, the Output A is sending the signal from Input A after it is processed, and the Output B is sending the signal from Input B after it is processed. When in Mono Mode, Both Output A and Output B are sending the summed signal from Input A and Input B, so you can have two Mono signals.
15. **High Signal Outputs** - High signal outputs. They send the signal which is above your cross-over frequency point. Every unit is equipped with balanced Outputs. { 1Gnd. = Ground, 2 = (+) Hot, 3 = (-) Cold }



Figure 3

The polarity is according to AES14-1992 (ANSI S4.48-1992)

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1pc of PX-22SUB TWO WAY SUB STEREO X-OVER
1pc of AC Power Cord
1pc of User Manual
4pcs of Rubber Foot

Warranty

Carefully open the shipping carton and check the product for any noticeable damage. Each UNiKA product is carefully tested and inspected before leaving the factory and should arrive in perfect condition.

If found to be damaged, notify the shipping company or the distributor immediately. Only the consignee may initiate a claim with the carrier for damage incurred during shipping. Be sure to save the carton and packing materials for the carrier's inspection.

Limited Domestic Warranty

UNiKA WARRANTS THIS PRODUCTS AGAINST DEFECTS IN MATERIAL OR WORKMANSHIP.

This limited warranty extends to all purchasers or owners of the product during the warranty period beginning with the original retail purchase. UNiKA does not, however, warrant its products against any and all defects:

- 1) arising out of material or workmanship not provided or furnished by UNiKA, or
- 2) resulting from abnormal use of the product or use in violation of instructions, or
- 3) in products repaired or serviced by other than authorized UNiKA repair facilities, or
- 4) in products with removed or defaced serial numbers, or
- 5) in components or parts or products expressly warranted by another manufacturer.
- 6) UNiKA agrees to supply all parts and labor to repair or replace defects covered by this limited warranty with parts or products of original or improved design, at its option in each respect, if the defective product is shipped prior to the end of the warranty period to any UNiKA authorized warranty repair facility in your country or to the UNiKA factory in the original packaging or a replacement supplied by UNiKA, with all transportation costs and full insurance paid each way by the purchaser or owner.

ALL REMEDIES AND THE MEASURE OF DAMAGES ARE LIMITED TO THE ABOVE SERVICES, IT IS POSSIBLE THAT ECONOMIC LOSS OR INJURY TO PERSON OR PROPERTY MAY RESULT FROM THE FAILURE OF THE PRODUCT; HOWEVER, EVEN IF UNiKA HAS BEEN ADVISED OF THIS POSSIBILITY, THIS LIMITED WARRANTY DOES NOT COVER ANY SUCH CONSEQUENTIAL OR INCIDENTAL DAMAGES. SOME COUNTRIES DO NOT ALLOW THE LIMITATIONS OR EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE, COUNTRY TO COUNTRY.

Technical Specifications

1. Linkwitz-Riley 24 dB/Octave
2. Selectable Sub-Bass Output Mode.
3. Input signal LED indicator.
4. Balanced Inputs and Outputs
5. Separated Sub-Bass and High level control with clip indicator.
6. Maximum Input level : +27dBu
Maximum Output level : +27dBu
7. Selectable cross-over frequency : 80Hz, 100Hz, 125Hz.
8. Phase Invert : Inverts the phase at the sub output.
9. Frequency response : 20Hz ~ 20KHz.
10. Signal to Noise : >100dB
11. Total Harmonic Distortion + Noise : <0.02% @0dB, 1KHz
12. Power Requirements & Power Consumption :
120V/220V AC 50/60Hz, 18Watts.
13. Level Control Range : $-\infty$,0dB to +6dB
14. Powerkon Input connector for AC input.
15. Dimensions : 44 x 483 x 171 mm.