



Full Range Sound System
KPRO 15.10
STAGE PRO series

User Manual



PROFESSIONAL SPEAKERS, AMPLIFIERS AND ACCESSORIES

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Introduction

Thank you for purchasing an AudioDesign KPRO Active Sound system. KPRO series is designed to provide an high and powerful sound quality in a compact size. The main features are:

- * Active subwoofer cabinet with additional amplifiers for the passive satellites.
- * High sensitivity passive satellites.
- * High and precise acoustic quality also with high power.
- * Portability: the system is easy fit and portable by one person.

The final result is a full, detailed and powerful sound.

Application

The KPRO systems are a professional solution for every DJ or Live events where high pressure and extreme sound quality is required.

Precautions:

Caution: When using any electric product , precautions should always be taken, including the following:

- 1) Read carefully all instructions before using the product.
- 2) To reduce the risk, strict supervision is necessary when the product is used near children.
- 3) Don't use the product near to water sources like sinks, kitchens, wet floors, pools, or similar or when raining.
- 4) In case hearing losses or buzzing occur, please contact a doctor.
- 5) This products should be located so that its position does not interfere or reduce its proper ventilation.
- 6) This product should be site away from heat sources such as radiators or any other product that generate heat.
- 7) This product should be connected to a power supply line only of the type described on the operating instructions. Check always the status of the power cable.
- 8) In case you need to replace the fuse, unplug power supply before replacement. The fuse is located over the power socket and needs to be replaced with a fuse of same type and value. If the fuse blows again, please contact our service. DON'T replace it a second time with a higher value fuse.
- 9) Unplug power supply when left unused for a long period of time. Don't draw the cable but pull out the plug.
- 10) Make sure that power switch can always be easily reached.
- 11) The product needs to be inspected by authorized or qualified personnel in case:
 - A- The power cable or plug are damaged
 - B- Objects or liquids fall inside the product
 - C- The product has been exposed to rain
 - D- The product doesn't appear to operate normally or exhibits a marked change in performance.
 - E- The product has fallen and been damaged.
- 12) DON'T operate on the product, except indications on the user's manual . Please refer to authorized and qualified personnel for any other operation.
- 13) Caution: Don't place objects on the product's power cable or place it in a position where it could be damaged or cause interferences. Improper installation could cause fire risk and/or personal injury.

Service

All Audio Design PRO products have been inspected and tested before leaving the factory and , if properly used, they will work for many years. However, in case of any problem, please proceed in the following way:

Contact your dealer and inform about the defect you found

In case it won't be possible to solve the problem with the dealer, the product needs to be returned, preferably in its original packaging or in a proper packing to protect it during the transport. Purchase documents must be produced too.

Your dealer will arrange the shipment to our service centre.

Conformity:

Audiodesign Pro products comply with presently existing directives and standards.

NOTES

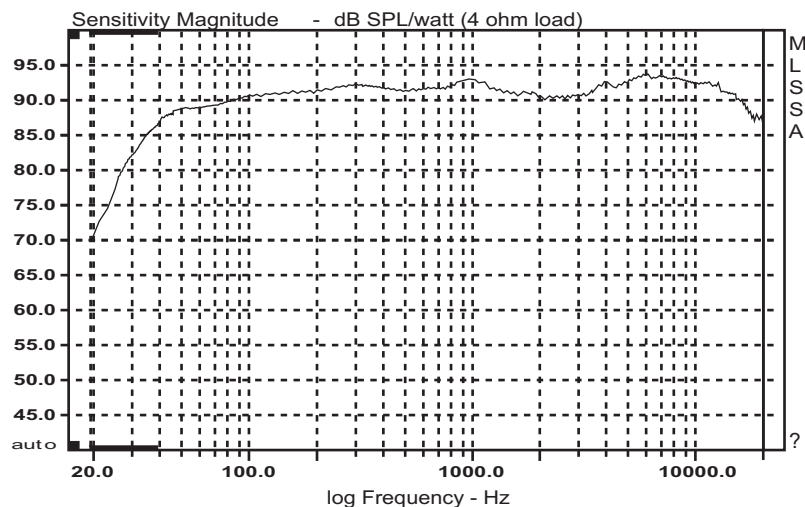
PRODUCT WARRANTY	
For the warranty validation please fill this form and send it to AudioDesign within 10 days from the purchase date.	
<p>AUDIODESIGN srl Via dell'Industria, 28 Corte Tegge 42025 Cavriago (RE) ITALIA</p>	
Product details	
Article _____	Series No. _____
Dealer _____	City _____
Purchase date _____	Purchase price _____
Buyer details	
Full name _____	Age _____ Occupation _____
Full adress _____	
e-mail _____	
<i>AUDIODESIGN guarantees the confidentiality of the data provided with this form</i>	

Technical Specification

SUBWOOFER STAGE PRO W15			
INPUT	LINE IN: 6.3 Sereo Jack Socket (Sleeve = Ground; Pin = +; Ring = -) INPUT: Balanced and Unbalanced		
OUTPUT	LINE OUT PARALLEL: 6.3 Stereo Jack Socket (Sleeve = Ground; Pin = +; Ring = -) SATELLITE OUTPUT: Speakon NL4 (pin 1+ = +, pin 1- = -)		
AMPLIFIERS	Subwoofer Power output: 300 W RMS (600 W Max) Satellite Power output: 2x180 W RMS (2x360 W Max) At 4 Ohm Sub PB electronic crossover: Frequency 100 Hz		
SPEAKER	Subwoofer: 1 x 15" (380 mm) Voice coil 100 mm Frequency range: 20 + 120 Hz (± 3 dB) SPL Max: 123 dB		
WEIGHT AND SIZE	Subwoofer weight: 43,5 kg Dimensions (WxLxH) cm: 58,5 x 48,5 x 55		

SATELLITE STAGE PRO 10			
INPUT	SATELLITES INPUT: Speakon NL4 (pin 1+ = +, pin 1- = -)		
SPEAKERS	High Sensitivity Woofer: 1 x 10" (250 mm) 50 mm vented voice coil Compression Horn Tweeter: Voice coil 45 mm		
MAIN FEATURES	TOTAL IMPEDANCE: 4 Ohm TOTAL POWER: 300 W RMS (600 W Max) SPL Max: 127 dB Frequency range: 70 + 20000 Hz (± 3 dB) Tweeter Crossover: 8000 Hz 18 dB/oct Passive		
WEIGHT AND SIZE	Satellite Weight: 13 kg Dimensions (WxLxH) cm: 32 x 30 x 46		

RESPONSE DIAGRAM OF THE STAGE PRO 15.10 SYSTEM



CURSOR: y = 53.6948 x = 20019.5313 (1025)

SYSTEM COMPONENTS

The KPRO 15.10 system is composed by three elements: 1 Active Subwoofer **STAGE PRO W15** and 2 Passive Satellites **STAGE PRO 10**

Active Subwoofer STAGE PRO W15



The active subwoofer STAGE PRO W15 is equipped with a 15" (380 mm) woofer with 100 mm voice coil.

The cabinet integrate all the necessary electronics for amplification and system processing :

3 AB class amplifiers for a total power of 600 W RMS (1060 W Max)

1 x 300 W RMS (600 W Max) Subwoofer
2 x 180 W RMS (360 W Max) Passive Satellites (4 Ohm load)

The subwoofer signal is Low Pass filteres at 100 Hz 12 db/oct.

Cabinet in high density MDF, anti-scratch embossed painting

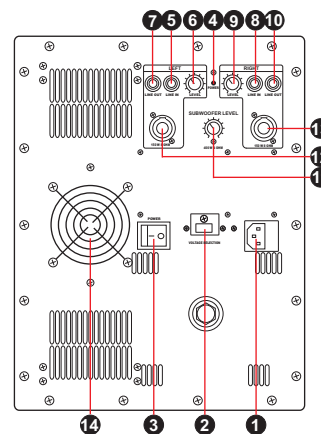
Pratical transport handles hollowed into the wood

Integral rigid metal grill

Housing hole for ø 35 mm stand tubes

Dimension and Weight: 58,5 x 48,5 x 55 cm; 43 kg.

Control and connecting plate



- ① Electric net socket
- ② Voltage selector
- ③ On/Off power switc - In position 0 the system is Off
- ④ On/Off LED light
- ⑤ Left channel Line In - Balanced 6,3 mm Jack socket
It is a balanced input that can receive both balanced and unbalanced signals
- ⑥ Left channel volume control - (volume control of the left passive satellite)
- ⑦ Left channel Line Out - 6,3 balanced Jack socket
It is a balanced output for the link of an additional amplifier
- ⑧ Right channel Line In - Balanced 6,3 mm Jack socket
It is a balanced input that can receive both balanced and unbalanced signals
- ⑨ Right channel volume control - (volume control of the right passive satellite)
- ⑩ Right channel Line Out - 6,3 balanced Jack socket
It is a balanced output for the link of an additional amplifier
- ⑪ Subwoofer Volume Control
- ⑫ Speakon socket for Left Satellite connection
- ⑬ Speakon socket for Right Satellite connection
- ⑭ Amplifier cooling fan; keep it clean for a correct ventilation.

High sensitivity passive satellites STAGE PRO 10



The high sensitivity satellite STAGE PRO 10 is composed by:

One 10" (250 mm) woofer with a 50 mm vented voice coil

One compression horn tweeter with a 45 mm voice coil

High Pass Filter at 8000 Hz 18 dB/oct on tweeter

Impedance 4 ohm

Speakon socket for connection to the subwoofer amplifier

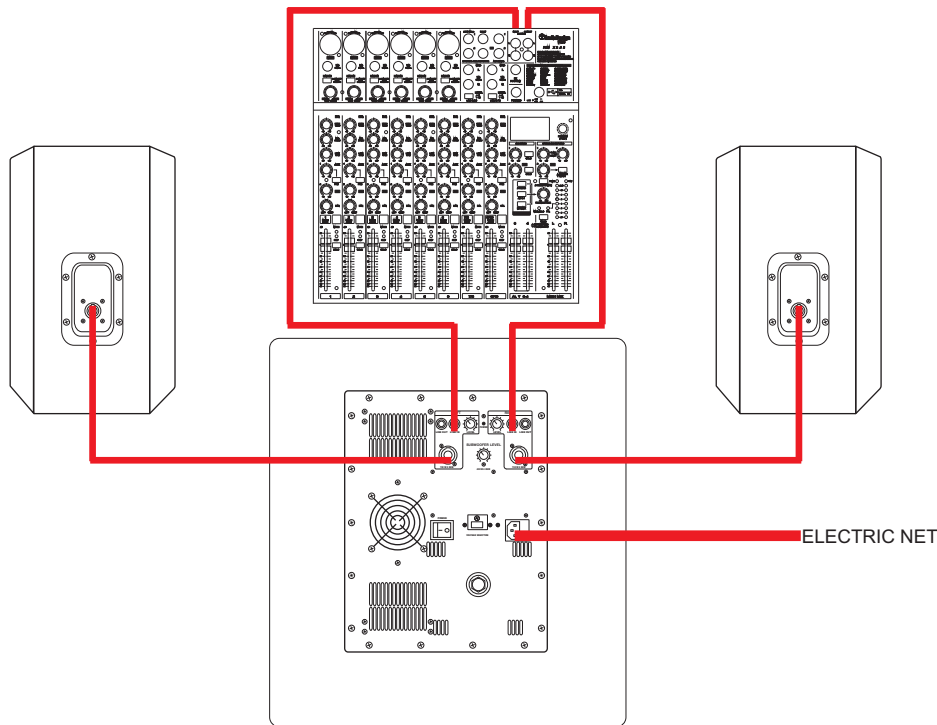
Cabinet in high density MDF , embossed anti-scratch painting

Integral protection grill

Housing hole for ø 35 mm stand tubes

Dimension and Weight: 32 x 30 x 46 cm; 13 kg.

WIRING



Connect the components following the precedent wiring scheme .

Connection to the electric net

Check that Power switch ⑤ is in position 0 and that net voltage corresponds to the one selected in the system. Connect the supplied electric wire to an electric net socket equipped with a correct ground contact.

Satellite connection

Use wires with good quality Speakon plugs. Make sure to rotate the Speakon plugs clockwise up to the lock position.

Connection to the mixer

Before making any connection to the mixer make sure the system power switch is Off in order to avoid damages. Remember that electric net power is the last to be switched On and the first to be disconnected after use!

- If you use balanced XLR outputs from the mixer , you need XLR > Stereo Jack signal wires, or XLR/XLR wires with a stereo Jack adapter to connect to the Line In of the subwoofer amplifier.
- If you use balanced Jack outputs from the mixer, you need Stereo Jack >Stereo Jack wires.
- If you use unbalanced XLR outputs from the mixer, you need XLR >Jack Mono wires, or XLR/XLR wires with an adapter Jack Mono to connect to the subwoofer Line In:
- If you use unbalanced jack outputs from the mixer, you need Jack Mono >Jack Mono wires.

System volume adjustment

The System KPRO 15.10 is not equipped with clipping limiters and with clipping LED lights therefore it is important to make a proper adjustment to the general features of the installation.

The system can offer excellent performance and it should get good level input signals , from the kind and the good quality of wires and preventing any audio distortion . A distorted audio signal will make a bad performance of the System and can make serious damages to the System itself.

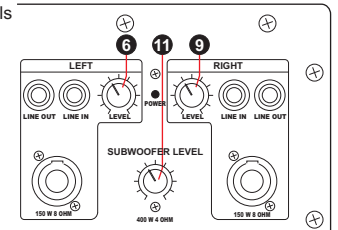
Therefore we invite you to follow carefully the following instructions for the level adjustment of every component.

The adjustment of the system volume is to be made by the three LEVEL controls in the rear plate of the subwoofer:

- For the left satellite LEVEL LEFT ⑥
- For the right satellite LEVEL RIGHT ⑨
- For the subwoofer SUBWOOFER LEVEL ⑪

Before switching on the the system make sure that all three controls are turned completely counterclockwise at level -∞.

Make the adjustment of the satellites first and then adjust the subwoofer level.



Satellites volume adjustment

- After having switched On the system, set the controls at 11 hours as described in the drawing. This is the optimal level when you have a mixer with outputs peaks that are between 0 and + 3 dB

- Now listen to the satellites; if you hear a distortion or a signal saturation (by the microphone for instance) check the possibility to reduce the signal from the audio source or the main output of the mixer. If it is not enough, reduce the volume of the satellites until you get an optimal sound.

Subwoofer volume adjustment

- After having memorized the right position of the LEFT and RIGHT controls and having set them again to zero, turn the control SUBWOOFER LEVEL and set it at 11 hours . This is the optimal level when you have a mixer with outputs peaks that are between 0 and + 3 dB.

- Now listen to the subwoofer ; if you hear bass distortions, turn slightly the subwoofer control counterclockwise.

Final adjustment of the System

- Set the three controls in the optimal positions that you have identified and listen to the complete System, always with the mixer outputs with maximum peaks between 0 and +3 dB. If you hear too much basses , turn slightly the control LEVEL SUB counterclockwise. If basses are too low instead, turn slightly the controls LEVEL LEFT and RIGHT counterclockwise .

As a general rule , the output level of the mixers is set in a way that, with the sound peaks, it is between 0 to +3 dB about. When the system K PRO 15.10 gets in the two Line In (5 and 8) a signal with that amplitude and it is set as explained above, it grants the maximum performance in terms of maximum undistorted amplification (at clip limit) and in this conditions you get the maximum possible sound pressure (SPL).