



# Audio Press Box<sup>®</sup>

**APB-216 C**

**Press Conference Audio Distribution Amplifier  
Owner's manual**

English



**Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:**

## **WARNING**

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### **Power supply/Power cord**

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the specified AC power adaptor.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

### **Do not open**

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified AudioPressBox service personnel.

### **Water warning**

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

### **If you notice any abnormality**

- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the device, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified AudioPressBox service personnel.
- If this device or the AC power adaptor should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified AudioPressBox service personnel.



**Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:**

## **CAUTION**

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### **Power supply/Power cord**

- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- To avoid generating unwanted noise, make sure there is 50cm or more between the AC power adaptor and the device.
- Do not cover or wrap the AC power adaptor with a cloth or blanket.

### **Location**

- Before moving the device, remove all connected cables.
- When setting up the device, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet.
- Avoid setting all controls to their maximum. Depending on the condition of the connected devices, doing so may cause feedback and may damage the speakers.

- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.

#### **Connections**

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

#### **Handling caution**

- When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason.

- Do not insert your fingers or hands in any gaps or openings on the device.
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified AudioPressBox service personnel.
- Do not use the device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

AudioPressBox cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

Always turn the power off when the device is not in use.

The performance of components with moving contacts, such as switches, volume controls, and connectors, deteriorates over time. Consult qualified AudioPressBox service personnel about replacing defective components.

Illustrations herein are for explanatory purposes only, and may not match actual appearance during operation.

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Specifications and descriptions in this owner's manual are for information purposes only. AudioPressBox reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your AudioPressBox dealer.



**Use only the adaptor included with this AudioPressBox. Use of a different adaptor may result in equipment damage, overheating, or fire.**

**Be sure to unplug the adaptor from the outlet when not using AudioPressBox, or when there are lightning storms in the area.**

**To avoid generating unwanted noise, make sure there is 50 cm or more between the power adaptor and AudioPressBox.**



## APB-216 C

Dear customer,

Thank you for purchasing the AudioPressBox® **APB-216 C**.

A professional portable 1 channel active press box (Audio Splitter) suitable for both indoor and outdoor press conferences. It features 2 MIC/Line Inputs and 16 Line/Mic Outputs. Each Output is independent transformer balanced and isolated. The **APB-216 C** also includes a rechargeable AccuPack so it can run on its own up to 10 hours. All of this placed in a waterproof, heavy duty Nanuk case.

### Features:



#### Phantom power

If you are about to use condenser microphone, turn Phantom power switch ON to feed your microphone with 24/48V. If you use dynamic microphone or microphone with his own power, you can switch this OFF.



#### Transformer

Individually transformer isolated outputs.



#### Mic/Line

If you are using microphone as an input, the switch should be set to “Mic” position. If you are using a Line input or input from the mixing console, please set this switch to “Line” position.



#### Rechargeable batteries

Optional Built-in Li-Ion battery pack with micro-processor controlled battery management, 10 hour working time at full load. No self-discharge and memory effect, always ready to use. Short charging time compared to conventional batteries.

### The package contains

1. AudioPressBox unit.
2. Power supply.
3. Manual
4. Test report

# APB-216 C



## 1) Input XLR microphone/line connector

Input your microphone or line-level source into this XLR balanced connector. You can connect any type of condenser either dynamic microphone here. (1:Ground; 2:Hot, 3:Cold).

## 2) Phantom power indicator

If you are about to use condenser microphone, turn Phantom power switch ON to feed your microphone with 24/48V. If you use dynamic microphone or microphone with his own power, you can switch this OFF.



### CAUTION

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. Devices other than condenser mics may be damaged if connected to the phantom power supply. Note, however, that the switch may be left on when connecting to balanced dynamic microphones.

To avoid damage to speakers, be sure to turn off amplifiers (or powered speakers) before turning this switch on or off. We also recommend that you turn all output controls to their minimum settings before operating the switch to avoid the risk of loud noises that could cause hearing loss or device damage.

## 3) Mic/Line Input switch

If you are using microphone as an input, this lever should be set to “Mic” position. If you are using Line input or input from the mixing console, please set this switch to “Line” position. You can check the output level on the Output level meter (5).

## 4) Input gain level knob

You can set the input signal level depending on the connected audio source to reach the optimal output level.

### 5) Level

Displays the signal level.

### 6) Power supply connector

Plug the mains cable to AudioPressBox® here.

### 7) Power switch

With the power switch, you can turn your AudioPressBox® ON or OFF. When AudioPressBox® is turned on, this indicator lights up.

### 8) Battery and Charge indicator

When APB is turned ON and is running on battery, the battery indicator lights blue.

When APB is turned ON and plugged to the main, the battery is being recharged and the battery indicator is off.

### 9) Mic/Line Output Switch

Each output is switchable between Mic and Line output level.

Mic level -20 dBu

Line level +6 dBu

### 10) Output

Each output is balanced and individually transformer isolated.

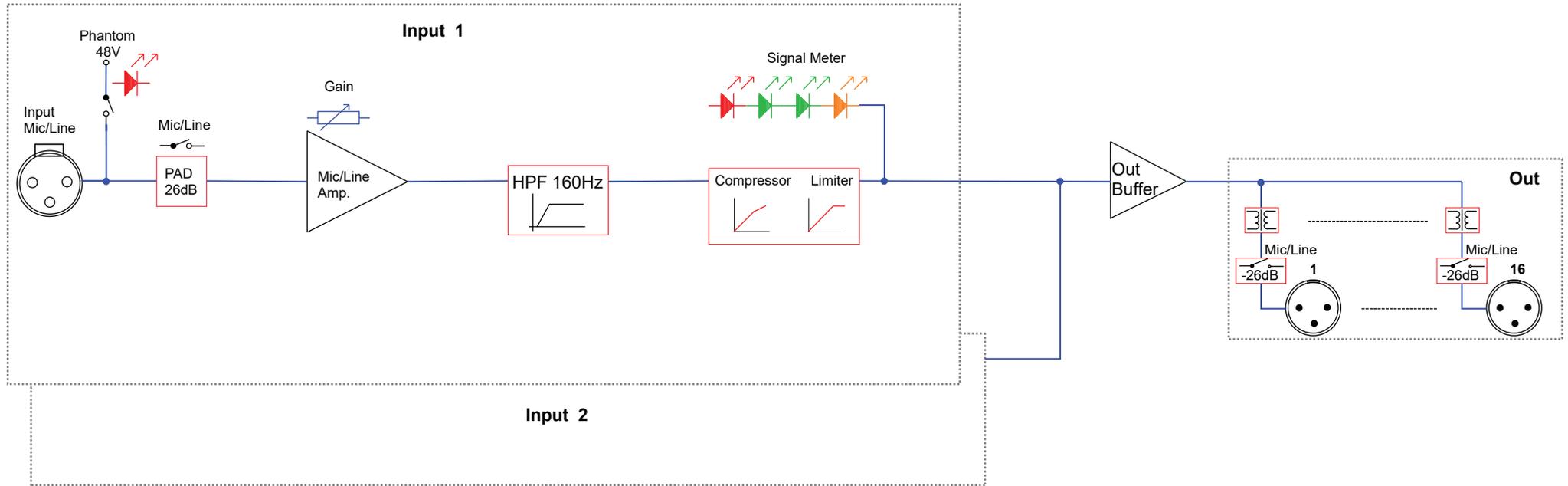


# Specifications

Audio Press Box APB-216 C		
Type	2 in 16 out	
Groups	1	
<b>Input section</b>		
Inputs	2	
Input connectors	Balanced, XLR	
Input Gain	MIC +22/+62 dB	LINE -4/+36 dB
Max. input level	Mic: -10/-30dBu Line: +36/-4dBu	
Input Impedance	Mic: 2,4 kOhm	Line: 3,5 kOhm
Phantom Voltage	48V	
<b>Output section</b>		
Outputs	16 Line/MIC level	
Output connectors	Balanced, XLR	
Nominal Output Level	+6dBu	
Maximum Output Level	+20dBu (no load) +14dBu (600Ohm)	
Output impedance	MIC: 220 Ohm	LINE: 600 Ohm
Transformer isolated outputs	Yes <b>(each output)</b>	
SNR	86dB	
Frequency Response	120Hz to 30kHz/-1 dB	
Controls	<b>Input section:</b> 26dB PAD, Input gain, Phantom	<b>Output section:</b> Power switch, Output PAD
Indicators	<b>Input section:</b> Phantom power, Input level	
Power Supply	24V DC, 1A external adaptor	
Battery	Li-Ion, 14,4 V 2200mAh	
Battery operation time	up to 8 hrs	
Dimensions (WxHxD)	370x120x300 mm	
Weight	4,7 kg	

# Block diagram

APB-216 C



# Audio Press Box<sup>®</sup>

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