AudioPressBox®

APB-116R

Press Conference Audio Distribution Amplifier

Owner's manual

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

        BLUE : NEUTRAL

        BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured makings identifying the terminals in your plug proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

WARNING

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:

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.

CAUTION

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:

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

- 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 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.

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.

Company names and product names herein are trademarks or registered trademarks of their respective companies.

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.

APB-116R

Dear customer,

Thank you for purchasing AudioPressBox® APB-116R, the most sophisticated portable distribution amplifier. Signal from one lectern's microphone or line input (i.e. mixing console) is distributed to independent microphone/line outputs used by multiple journalists, TV Camera operators, audio recorders and reporters at the same time. No more hassle with the multiple microphones on the table or disturbing late-coming reporters. With AudioPressBox® you are set in a minute with providing the perfect signal to every reporter!

Unpacking your AudioPressBox®

Your AudioPressBox® comes to you packaged in the transfer box with the filling material in used to avoid any damage caused by transport.

In the package, you should find:

1)   Power supply with mains cable

2)   AudioPressBox®

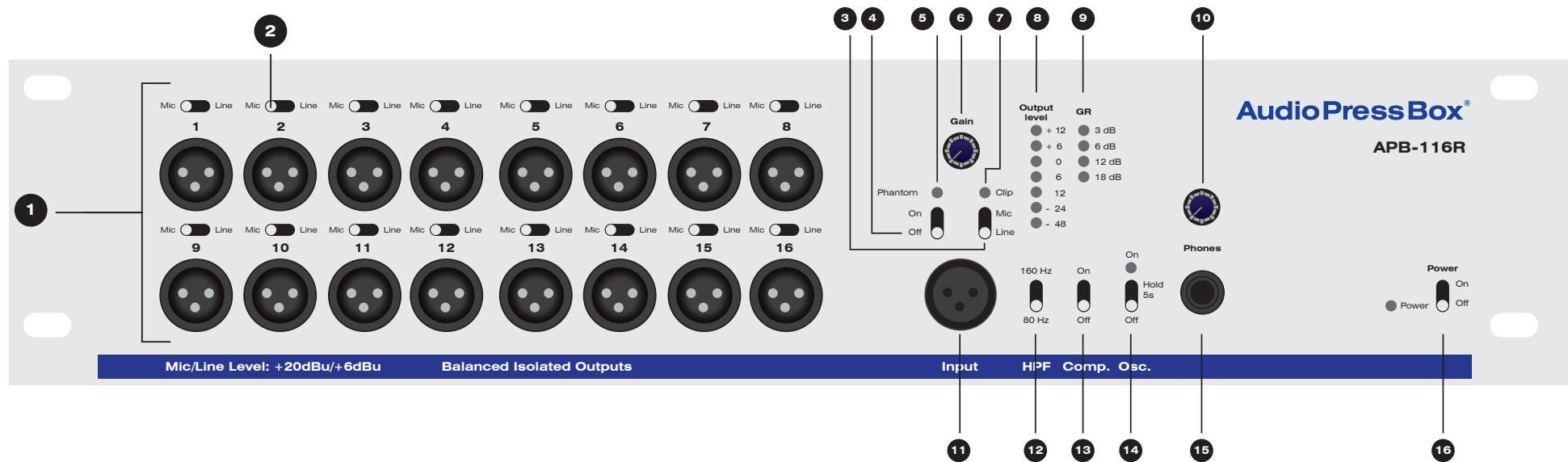3)   This manual

Please be careful while unpacking all the components from original packaging.

Using your AudioPressBox®

Using every AudioPressBox® model is simple and it can be presented in 3 simple steps:

1)   **Plug** your microphone in

2)   **Set** your levels

3)   **Start** using your AudioPressBox® by providing perfectly processed signal to every recipient, who connects his device into the output section.

APB-116R - Front panel (Input section)

APB-116R - Rear panel

Front panel (Input section)

1) Group A Mic/Line Outputs 1-24 + Group B Mic/Line Outputs 1-24

Mic level output XLR connectors – every output is individually transformer isolated.

2) Mic/Line level select switch

You can set if you want to get Mic (-20dBu) or Line (+6dBu) level from individual output

3) Mic/Line input switch

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

4) Phantom power switch

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

5) Phantom power indicator

If the Phantom power is on, this is indicated with solid red light.

6) Input gain level knob

After connecting your microphone, you can set the input level to reach perfect understanding of lectern's speech.

7) Input peak clip indicator

If the input level is set too high, this indicates a possibility of distorted input signal. When this red light continuously lights, please lower your input level by adjusting Input gain level knob until the indicator stops to light.

8) Output level indicator bar

You can visually monitor the level of output signal in 7-segment output indicator bar.

9) Gain Reduction indicator bar

If Comp switch is set to ON, you can visually monitor the level of Gain reduction on this 4-segment indicator bar.

10) Headphones output connector

If you want to monitor the output by your headphones, you can plug them to this connector (6.3 TRS/Jack stereo connector).

11) 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.

12) High-Pass Filter switch

This switch helps to avoid distributing low-end rumble like a microphone handling noise or pops. You have 2 possible low-cut frequencies – 80Hz and 160Hz. The one you choose depends on the sound, you want to filter out. You can check the result with your headphones plugged in.

13) Compressor/Limiter operation switch

To provide perfect output signal without clipping or distortion, you can switch the Comp switch ON. If you switch this OFF, signal in output could contain signal clipping or distortion.

14) Test signal oscillator operation switch

To test signal level, which is coming to the outputs, you can switch this Test 1kHz sine signal oscillator on. After recipients set the levels in their recording devices, you should switch this function OFF. When compressor switch is set to ON, output signal level won't exceed this maximum output level.

15) Headphones output connector

If you want to monitor the output by your headphones, you can plug them to this connector (6.3 TRS/Jack stereo connector).

16) Power switch

With the power switch, you can turn your Audio Press Box® ON or OFF.

Rear panel

17) Power supply connector

Plug the mains cable to AudioPressBox® here.
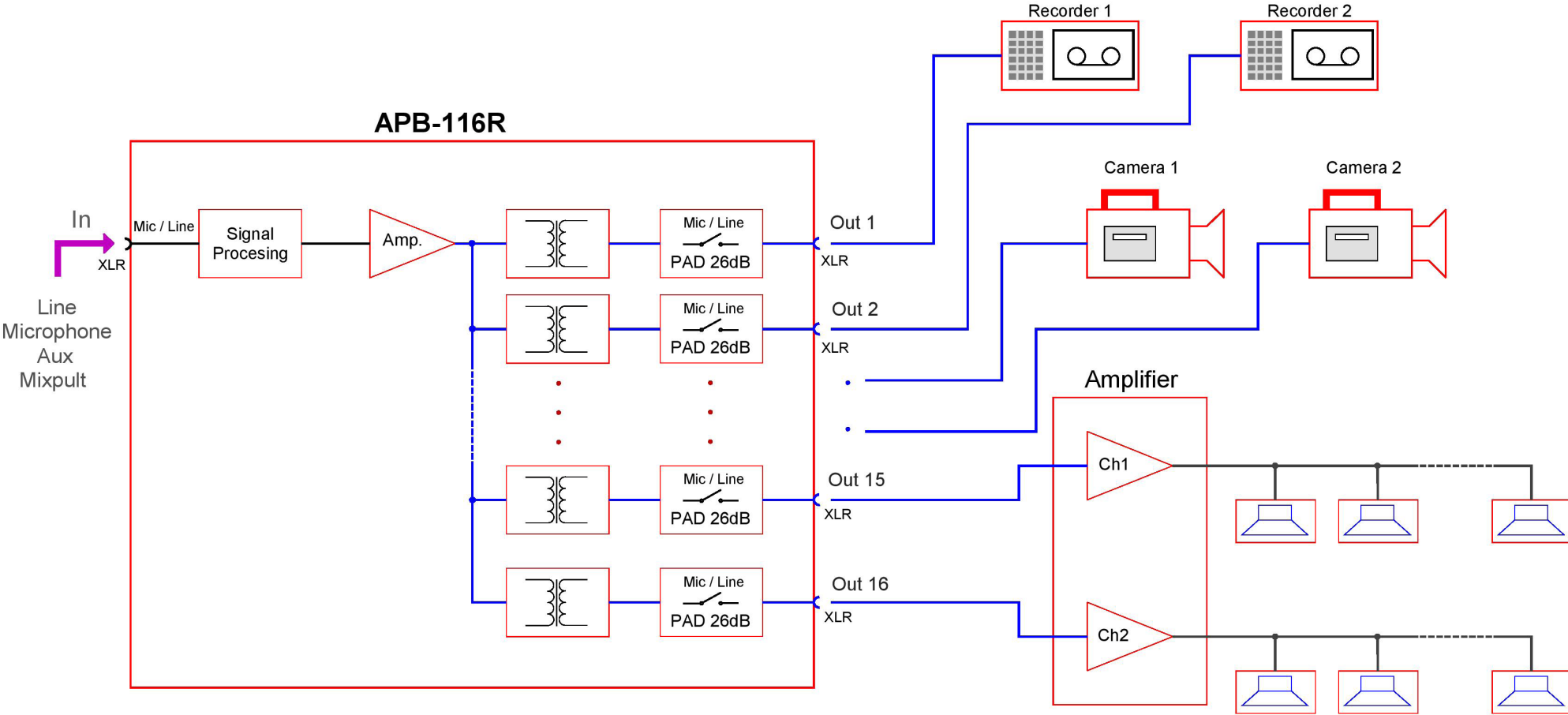
Get your Audio Press Box® operational:

1. In case you are not running on rechargeable batteries, plug your power supply to the AudioPressBox® and plug it to mains.

2. Turn AudioPressBox® on (by switching Power switch (16) ON).

3. Plug your microphone into input XLR connector (11).

4. If you are using condenser microphone, switch Phantom power switch (4) ON.

5. Switch Comp (13) ON

6. Speak to the microphone and adjust the Input gain (6) level to get visual confirmation on output signal level indicator (8) as you speak, this indicator will light up continuously.

7. If you want to hear your output signal, plug your headphones (with 6.3mm TRS connector) to headphone connector (15) and adjust monitoring level (10) to listen to the output.

8. Recipients can plug their recording devices to outputs.

9. You are ready to go!

Specifications

Audio Press Box APB-116 R		
Type	1 in 16	
Groups	1	
Input section		
Inputs	1	
Input connectors	Balanced, XLR	
Max. input level	Limiter ON	Limiter OFF
	Mic: -10/-30dBu	Mic: -2/-42dBu
	Line: +36/-4dBu	Line: +24/-16dBu
Phantom Voltage	24V	
Input Impedance	Mic: 2,4 kOhm	Line: 3,5 kOhm
Output section		
Outputs	16	
Output connectors	Balanced, XLR	
Nominal Output Level	+6dBu	
Maximum Output Level	+20dBu (no load)	
	+14dBu (600kOhm)	
Output impedance	Mic: 220 Ohm	Line: 600 Ohm
Transformer isolated outputs:	Yes **(each output)**	
SNR	86dB	
Frequency Response	30/160Hz (filter) to 30kHz/-1dB	
Controls	Mic/Line PAD, Input gain, Phantom, High-pass filter, Compressor, Oscillator, Phones level, Power, Output PAD	
Indicators	Input clip, Phantom power, Output level, Gain reduction, Power, Battery status (with battery option)	
Power Supply	24V DC, 300mA external adaptor	
Dimensions (WxHxD)	2U	
	480x88x100mm	
Weight	3,5kg	

Block diagram

APB-116R

Signal Procesing

Amp.

Mic / Line
PAD 26dB

Mic / Line

In

XLR

Line
Microphone
Aux
Mixpult

Out 1
XLR

Out 2
XLR

Out 15
XLR

Out 16
XLR

Recorder 1

Recorder 2

Camera 1

Camera 2

Amplifier

Ch1

Ch2

AudioPressBox®