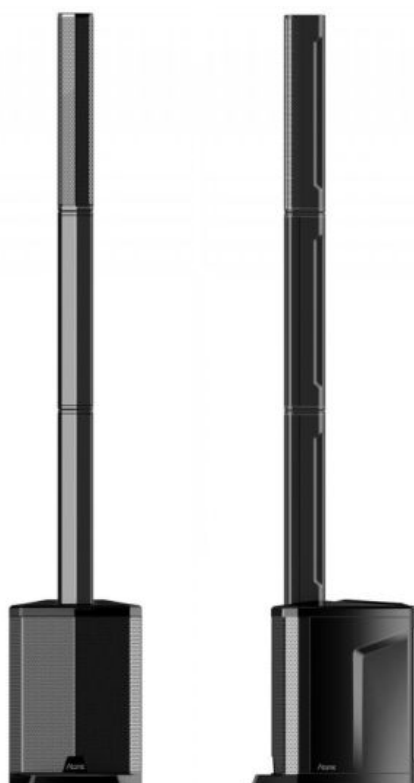


# PPA300 350W Modular Line Array System



## PPA300 Instruction Manual



### CAUTION - ATTENTION - VORSICHT

RISK OF ELECTRIC SHOCK- DO NOT OPEN  
RISQUE D'ELECTROCUTION- NE PAS OUVRIR  
STROMSCHLAGGEFAHR- NICHT OFFNEN



In Compliance with the following directives: RoHS Directive  
(2002/95/EU) and WEEE Directive (2002/96/EU)  
If this product is no longer functional or reaches the end of its  
usable life, please take it to an approved recycling plant.



Version 1.0

[www.terralec.co.uk](http://www.terralec.co.uk)

Dear Customer,

Thank you for purchasing the PERFORM PA Modular Line Array System. This unit has been designed and manufactured to the highest standards so you can be assured you have made a good investment.

For your safety and to ensure you make full use of the Modular Line Array System features, please make sure you read this manual in full.

**Safety Advice:**

- Read this manual in full before operating this product.
- Keep this manual in a safe place for future reference.
- Heed all warnings and instructions, both in this manual and on the product.
- Carry and transport this product with care. Dropping this product may result in serious mechanical failure.
- The manufacturer accepts no responsibility for injury or damage caused as a result of not following the manual provided.
- Turn off and unplug this machine from mains supply when not in use.
- This machine is not waterproof and should not be used outside.
- In the event of any liquid entering the housing, unplug immediately and contact a qualified engineer.

**Protection from Electric Shock:**

- Only connect this unit to a mains socket with suitable trip and RCD protection.
- To disconnect from the mains socket, always remove by the mains plug. Do not attempt to remove by pulling the mains cable.
- Disconnect the unit from the mains supply before cleaning. Cleaning should be carried out with a soft, dry cloth.
- Do not expose this unit to any liquids.
- Do not operate near exposed water or in high humidity.
- Choose a suitable route for mains cables, ensuring trip hazards are avoided and the mains cable is not at risk of being crushed.
- Do not open this unit to service. There are no user serviceable parts inside. Any servicing or repairs should be carried out by a qualified engineer only. Any attempt to service or adapt this unit will leave your warranty void and could result in serious malfunction or injury.

**Protection from Fire:**

- Do not place near sources of heat or ignition.
- Do not cover or block any ventilation holes.
- Check your AC wall socket will take the power you are applying to avoid overloading the mains supply.

**Protection from Injury and Damage:**

- Do not attempt to modify this unit.
- Always install the unit in a suitable location where vibrations to the unit are avoided.
- Check this unit matches the mains voltage and frequency before plugging it in to your mains socket.
- In the event that any object or liquid enters the machine, switch off immediately, remove from the mains and consult a qualified engineer.
- Should you experience any malfunction or damage to the mains cable, disconnect from the mains supply immediately and consult a qualified engineer.
- All parts should be replaced with genuine spare parts and carried out by a qualified engineer.

**Contents & Unpacking:**

Before beginning your initial setup, check the unit has not been damaged in transit. In the event there is damage to the housing, cable or internal components, contact your dealer immediately.

**Introduction:**

The PPA300 delivers an immersive audio experience through six 2.75” neodymium high-frequency drivers and a compact 8” subwoofer that packs a punch with its 350 watts of power. Its Class D digital amplifier ensures exceptional sound quality, while the rear panel offers a versatile range of audio inputs and outputs options, including a 3 channel mixer, USB and Bluetooth audio streaming, and TWS (true wireless stereo) linking for wireless pairing of two PPA300 series speakers. With easy transport in mind, the PPA300 weighs in at just 14kg and features convenient carry handles on the sub unit.

**Specifications:**

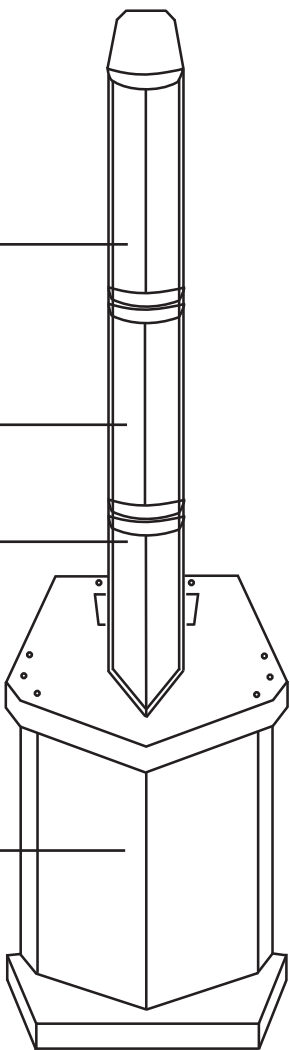
Product	PPA300
Active/ Passive	Active
Amplifier Type	Class D
LF Driver Size	8” Subwoofer
HF Driver Size	6 x 2.75” neodymium drivers
Total Power	700 Watts Peak (350 RMS)
Inputs	2 x dual 1/4” XLR Switchable Line/ MIC Inputs
Outputs	XLR Mix Output
Media Player	Bluetooth and USB
Bluetooth	Bluetooth <sup>®</sup> Streaming with TWS Link
Lighting	N/A
Frequency Response	20Hz - 20kHz
Max Peak SPL at 1 metre	116db
Signal Processing	Reverb Effect and Master EQ (Bass and Treble)

Product Overview:

The Array Speaker Column features  
the 6 High Frequency Drivers

The Array Spacers may go between the Array  
Speaker Column and the Subwoofer Base Station,  
according to the desired height

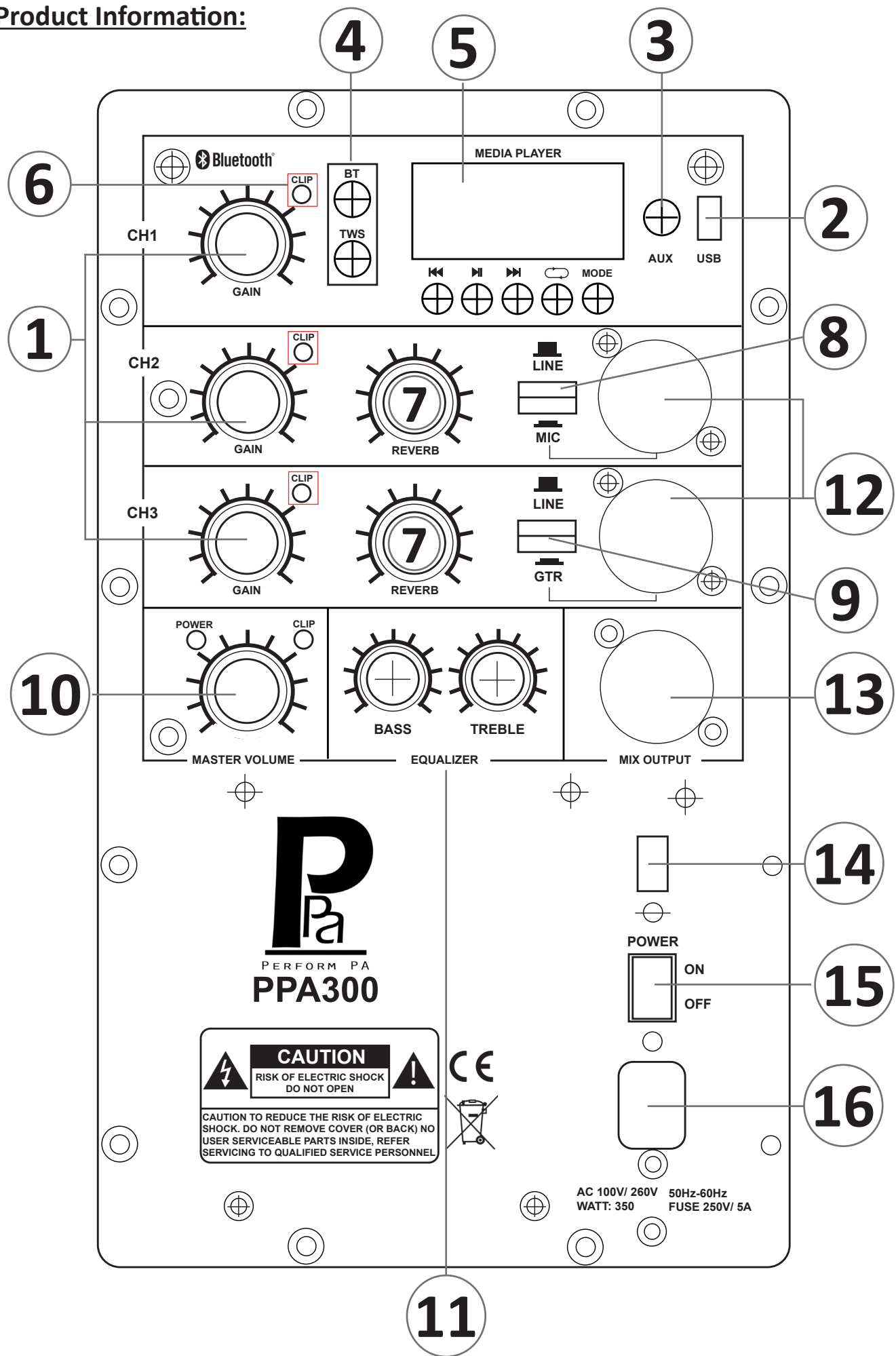
The 8” Bass Driver is in the  
bottom Subwoofer Base Station



Product Information:

	Name	Use
1	Gain Knobs	Adjust Channel Volume.
2	USB Port	Insert USB Stick for Audio Playback
3	AUX IN	Connect to device via 3.5mm Jack
4	Bluetooth and TWS Buttons	Wireless Connections
5	Media Player	Audio Playback Control
6	Clip LED	Lights to show signal overload
7	Reverb	Add reverb effect to Ch2/3
8	Line/ Mic Switch	Select line or mic level signal
9	Line/ GTR Switch	Select line or guitar level signal
10	Master Volume	With Power and limited LED indicators
11	Equalization	Master Bass and Treble +/- 8db
12	XLR 1/4” Combo Jacks	Connect XLR or 1/4” Cable
13	XLR Mix Output	Connect to additional speaker or recording device
14	Voltage Switch	
15	Power Switch	Turns Speaker On/ Off
16	Power Port	Connect IEC Power Cable

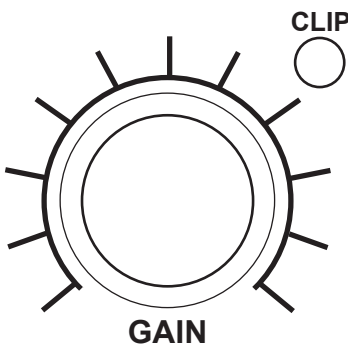
Product Information:



**LED Indicators:**

**CLIP (Yellow Light):**

The Yellow ‘CLIP’ lights located on input channels 1, 2 and 3, represent clipping due to excessive gain. When any of these yellow lights are illuminated, it signals that the incoming signal on the respective channel is too strong. Adjust the input levels for channels 1, 2 or 3 accordingly to prevent distortion and maintain clear audio quality.

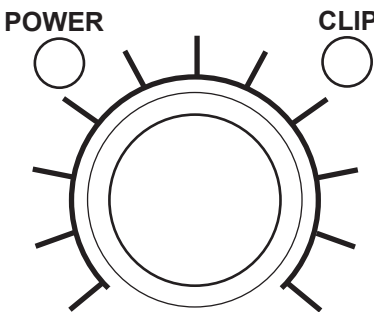


**POWER (Green Light):**

The ‘POWER’ indicator is the green light located in the master section of the mixer. When the speaker is turned on, the light emits a green glow, confirming that the speaker is powered up and ready for operation.

**LIMIT (Red Light):**

The red ‘LIMIT’ light is also located in the master section of the mixer. If this light is illuminated, it indicates that the master volume is too high, triggering the speaker’s limiter. This excessive signal can impact the overall dynamic range and sound quality. To rectify this, adjust the master volume appropriately by turning it down until the red light is no longer illuminated. This ensures optimal audio quality and prevents potential distortion.



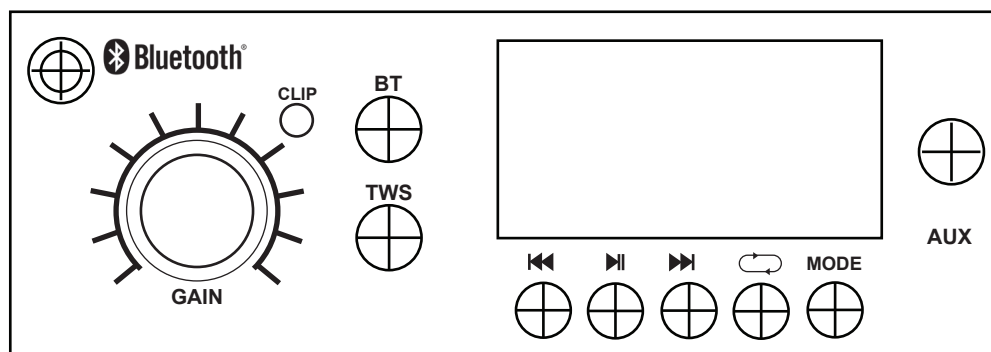
**Bluetooth and USB Function:**

**Button Functions:**

Button	Use
Previous/ Rewind	Short press during USB/ Bluetooth use to play the previous song Long press to rewind the currently playing music.
Next/ Fast Forward	Short press during USB/ Bluetooth use to play the next song Long press to fast forward the currently playing music.
Pause/ Play	During USB/ Bluetooth play, a single press pauses and displays. Press again to resume playback.
Mode Switch	Short press cycles through USB/ AUX/ BT modes In the absence of USD/ SD input, the order is BT/ AUX.
Looping Button (USB Mode Only)	“ONE” - Single loop, continuously looping the current music “ALL” - All songs loop, playing each song after the first and last have been played.
Bluetooth Button	During USB or AUX use, long press to directly switch to BT mode in search mode. “BLUE” flashes, and when Bluetooth is connected, “BLUE” stops flashing. If Bluetooth is already connected, long press to cancel the current connection. Reconnecting requires manual Bluetooth connection.

### **Bluetooth Mode Activation:**

Upon turning on, the default mode is Bluetooth. The LED screen displays a small “BT” icon, and the screen flashes “BLUE” as the device searches for connections. Once connected, “BLUE” stops flashing and the Bluetooth connection name appears as: PPA300.



### **TWS Functionality:**

Pressing the TWS button enables two identical speakers to share data, allowing the secondary speaker and the host speaker to play in stereo sync.

### **TWS Connection:**

- When two PPA devices are switched to Bluetooth mode together, extended press the “TWS” button. The display flashes with “PAIR”.
- The other speaker display flashes with “BLUE” and once connected, the master device’s display shows from “PAIR” to “BLUE”.
- The display of the receiving secondary speaker shows from “BLUE” to “PAIR”.
- After TWS is connected, Bluetooth can only be connected to the master device’s speaker.
- After the TWS connection is completed, extended press the master device’s “TWS” button to cancel the TWS connection.
- Press the secondary speaker’s “TWS” to cancel the TWS connection. The secondary speaker flashes, and the display flashes with “BLUE” and is in retrieval mode.
- To reconnect, extended press the master device’s TWS button for 3 seconds, wait for 7 seconds, and then connect again.

### **TWS Mode Playback Control:**

In TWS mode, the fast forward, fast reverse and pause button of the secondary speaker can also control the playback of the phone.

### **USB Playback:**

Inserting a USB activates MP3 playback automatically. The screen displays a small USB icon, indicating USB playback mode. Supported formats include: MP3, WAV, MP2 and WMA.

### **AUX Mode Activation:**

When an AUX signal is inputted, pressing the “MODE” key switches to AUX mode, and the screen displays the AUX icon.

### **Factory Reset:**

An extended press of the “MODE” and “PREVIOUS/REWIND” button for more than 6 seconds initiates a factory reset. This is useful when button programming is scrambled or confusion arises in memory due to prolonged playback.

**Thank you for taking the time to read this information.**  
**For further information, please contact [sales@terralec.com](mailto:sales@terralec.com) or visit**  
**[www.terralec.co.uk](http://www.terralec.co.uk)**