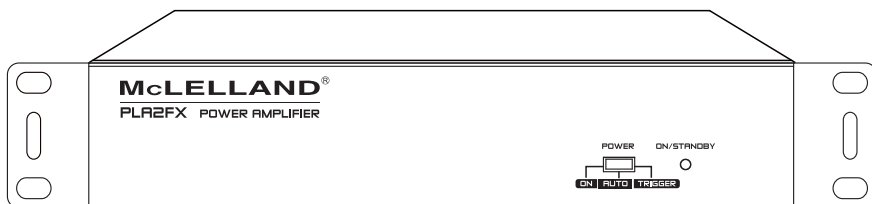


McLELLAND®

PLA2FX | 120W X 2 CLASS D
Power Amplifier w/DSP



OWNERS MANUAL

DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

WARNING

1. Do not expose this unit to water, moisture, or excessive humidity.
2. Do not install or place this unit in a built-in cabinet, or other confined space without adequate ventilation.
3. To prevent risk of electrical shock or fire hazard, due to overheating do not obstruct unit's ventilation openings.
4. Do not install near any source of heat, including other units that may produce heat.
5. Do not place unit near flames.
6. Only clean unit with a dry cloth.
7. Unplug unit during lightening storms or when not used for an extended period of time. A surge protector is strongly recommended.
8. Protect the power cord from being walked on or pinched, particularly at the plugs.
9. Use unit only with accessories specified by the manufacturer.
10. Refer all servicing to qualified personnel.

CAUTION

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



INTRODUCTION

The PLA2FX power amplifier is designed for providing powerful output to speakers used in stereo sound system, 2.1 home theaters, gaming media system and other listening applications. With Class-D output circuitry, a switching mode power supply offers high efficiency and excellent performance. PLA2FX can be used as a two channels, 2.1 channels, bridged as a 1 channel amplifier.

With LPF switch, it also could be used as a subwoofer amplifier. Built-in DSP (Digital Signal processing) microprocessor to adjust the audio input signal digitally for any kind of speakers and music. Therefore, with the compact size and extremely flexible of amplifier, PLA2FX can be used in many different applications.

FEATURE

- * Output power: 120W x 2 (@4 / 8 Ohm)
240W(Bridged)
- * Class D circuit design in compact size
- * Built-in DSP with Ethernet interface
- * RCA analog audio inputs.
- * Audio RCA PRE-OUT connector to additional amplifier
- * Low Pass Filter (LPF) switch sets the amplifier as a subwoofer amplifier.
- * Speaker output binding post connectors
- * Selection for Power-Up mode (ON/AUTO/TRIGGER)
- * TRIGGER IN/OUT could be external remote ON/OFF
- * Natural cooling without Fan.
- * Activated standby mode active after 15 minutes of no signal detected.
- * Red LED (Front Panel) to indicated Standby mode is active.
- * Protection: Short circuit, Overheating, Overvoltage, Overcurrent.

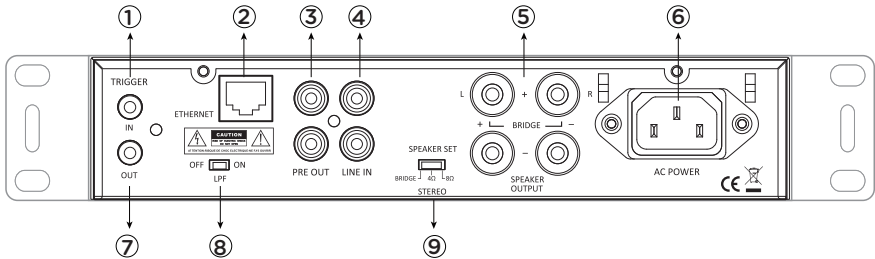
FRONT PANEL FEATURES



Power On Selection

1. **ON** : The unit always Power ON, and will not go to Standby mode.
2. **AUTO** : The unit goes to Standby mode after 15 minutes of no signal sensing.
3. **TRIGGER** : The unit only power on by providing 12VDC at Trigger In(Rear Panel).
4. **LED** : GREEN indicates Power On.
RED indicates Standby mode.

REAR PANEL FEATURES



1. **TRIGGER IN** : Apply 12VDC to this connector to active the unit.
2. **ETHERNET**: Connect to the local router via this RJ-45 port.
3. **PRE OUT**: A buffered Line out is available to extend the audio signal to another PLA2FX or other amplifier as needed.
4. **LINE IN**: RCA Analogue Line input.
5. **SPEAKER OUTPUT**: Connect the loudspeakers here. Please connect the speaker cables correctly between the positive (+) terminal of the unit and positive terminal of the speaker, and also between the negative (-) terminal of the unit and the negative terminal of the speaker.
6. **AC INPUT**: Please plug the AC power cord properly before turn on the amplifier.
7. **TRIGGER OUT**: Provide 12VDC to trigger another device.
8. **LOW PASS FILTER (LFP)**: Set to OFF position, the amplifier works as a stereo amplifier. Set to ON position, the amplifier works as a subwoofer amplifier.
9. **SPEAKER SET**: There are three positions, Bridge(Mono), 8Ω (Stereo), 4Ω (Stereo). The defaultSetting is 8Ω. Please set to the properly impedance corresponding to the connected speakers.

TECHNICAL SPECIFICATIONS

Stereo Output : 120W x 2, 8 Ω
120W x 2, 4 Ω

Bridged Output : 240W, 8 Ω

Frequency Response :
20 Hz ~ 20 kHz, +/- 2 dB @ 4 Ω Load

Low Pass Filter: 150 Hz

Signal to Noise : >90dB A WTD

THD: < 0.05%

Input Sensitivity : 500m V (-4 dBu)

Gain Value : 36 dB @ 8 Ω

Input Impedance : >10k, unbalanced

Maximum Input Level : 2.5V (+10 dBu)

Trigger In/Out : DC 12V

Input Connectors : RCA jacks

Trigger Connectors : 3.5 mm Jacks

Output Connectors : Binding Posts, RCA (PRE-OUT)

Power Requirements : 100 - 240 VAC, 50 - 60 Hz, 350W

Standby Power Consumption : <3.0W

Dimensions : 214mm(W) x 249.8mm(D) x 44mm(H)

Net Weight : 1.9 Kg

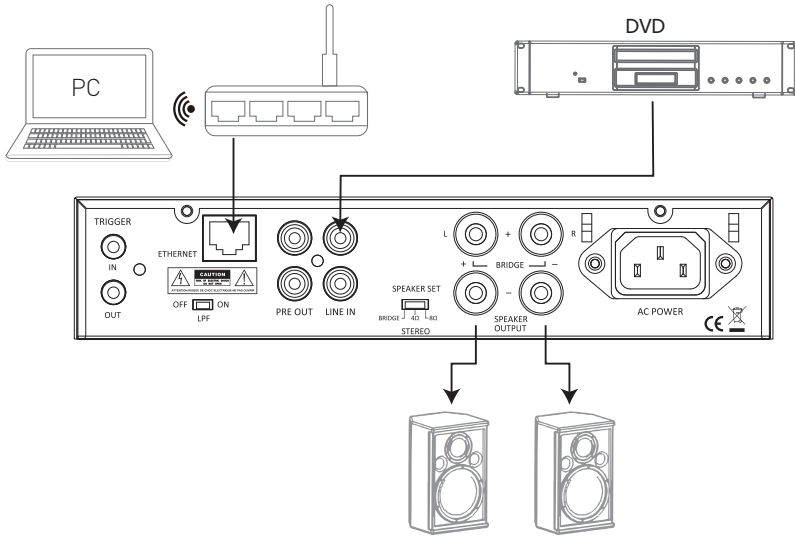
DSP GRAPHIC USER INTERFACE



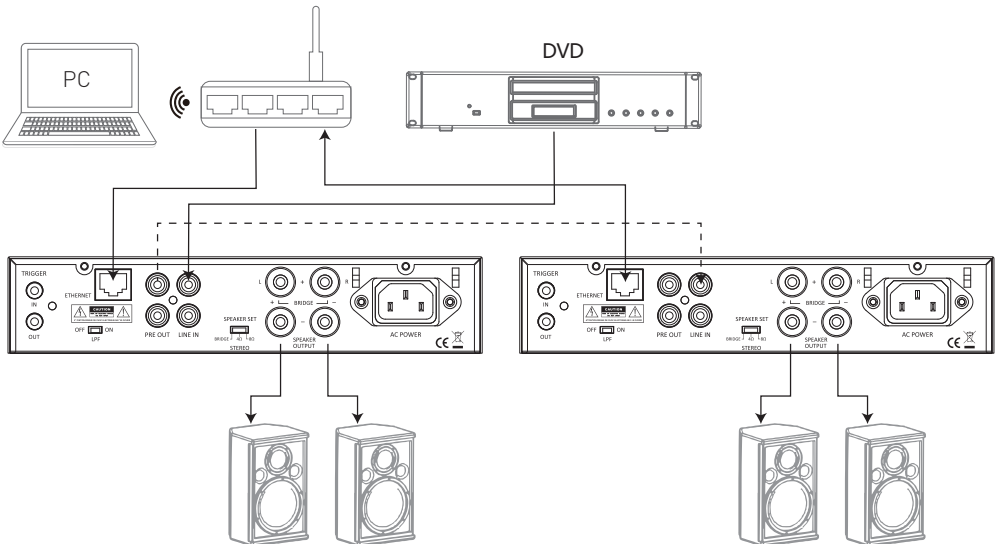
- * Connect the Ethernet port of PLA2FX to the local network of router via standard Cat5 cable.
- * Save the DSP software to the PC properly, and run the software.
- * PLA2FX and control PC need to be at the same network.
- * PLA2FX obtain the IP address automatically and show on DSP interface.
- * DSP software detects and display multiple same units on the same network.
- * Press "LINK" allows multiple units as a group and synchronous operation.

TYPICAL CONNECTION

* Using single PLA2FX amplifier in stereo system shown as below:



* Rack amount two linked PLA2FX amplifiers and work as 4 channels shown as below:



TYPICAL CONNECTION

* Rack amount two linked PLA2FX amplifiers and work as 2.1 channels shown as below:

