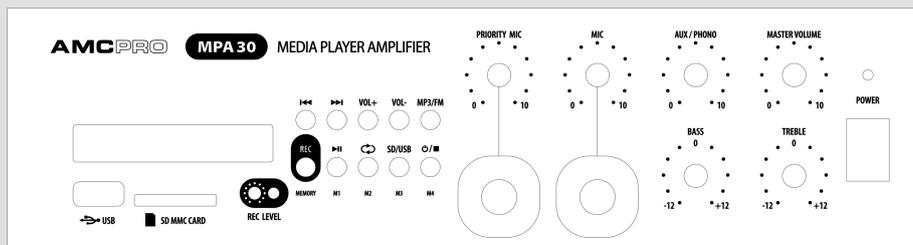




MPA 30

Media player amplifier



User Manual

## IMPORTANT SAFETY INSTRUCTIONS

### CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

### WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.



### No user serviceable parts inside!

**When using this electronic device, basic precautions should always be taken, including the following:**

1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool etc).
3. Use this device when you are sure that player has a stable base and it is fixed securely.
4. This product, in combination with amplifier and loudspeakers may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult with otorhinolaryngologists. The product should be positioned so that proper ventilation is maintained.
5. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
6. The product should be connected to a power supply that is described in the operating instructions or are marked on the product. Replace the fuse only with one of the specified type, size and correct rating.
7. The power supply cord should be undamaged and never share an outlet or extension cord with other devices so that the outlet or extension cord's power rating is exceeded. Never leave device plugged into the outlet when it is not being used for a long period of time.
8. Care should be taken so that objects do not fall into, and liquids would not be spilled through, the enclosure's openings.
9. The product should be serviced by qualified service personnel if:
  - The power supply cord or the plug has been damaged.
  - Objects have fallen into or liquid has been spilled on the product.
  - The product has been exposed to rain.
  - The product has been dropped or the enclosure damaged.
10. There are some areas with high voltage inside, to reduce the risk of electric shock do not remove cover of the player. The cover should be removed by the qualified personnel only.

## CONTENTS:

Before you start

Introductions	4
Features	4

Operation

Front panel	5
Rear panel	5
Media player	5
Function description (amplifier)	6
Function description (media player)	7
Output terminal	9

Controls and connectors

Connectors	9
Cable wiring examples	10

<u>Specifications</u>	13
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## Introductions

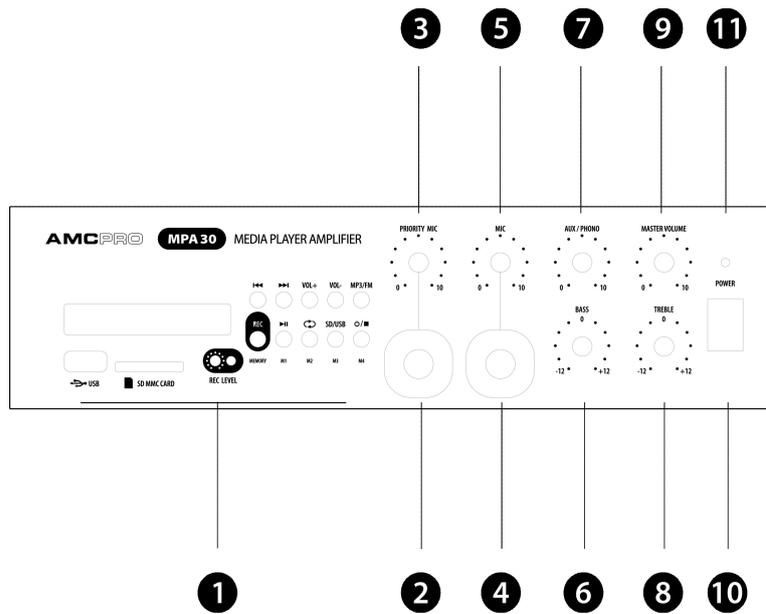
This MPA 30 media player amplifier are designed for public address systems such as: paging, announcements and background music broadcasting in industrial plants, offices, schools, shopping centers, night clubs, dinning rooms, conference hall, auditoriums and recreations areas.

## Features

- Built-in USB/SD/MMC player recorder.
- FM tuner.
- Preamplifier output and direct power amplifier input.
- 6.3mm TS jack priority microphone input.
- 6.3mm TS jack microphone input.
- AUX/PHONO input.
- Tone control.
- Screw terminal for external 12V DC power supply.

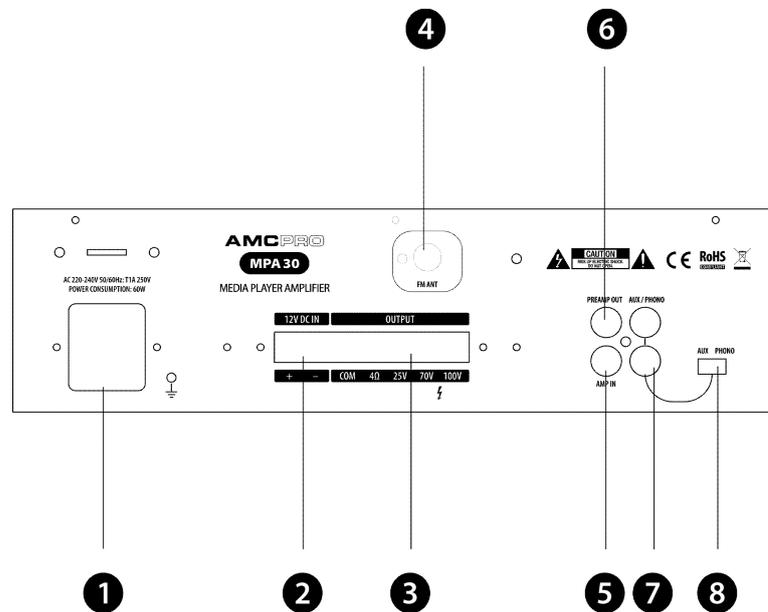
## 5 Operation

### Front Panel



- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. USB/SD/MMC player</li> <li>2. Priority microphone input</li> <li>3. Priority microphone level control</li> <li>4. Microphone input</li> <li>5. Microphone level control</li> </ol> | <ol style="list-style-type: none"> <li>6. Tone control BASS</li> <li>7. AUX/PHONO level control</li> <li>8. Tone control TREBLE</li> <li>9. Master volume control</li> <li>10. Power switch</li> <li>11. Power indicator</li> </ol> |
|--|---|

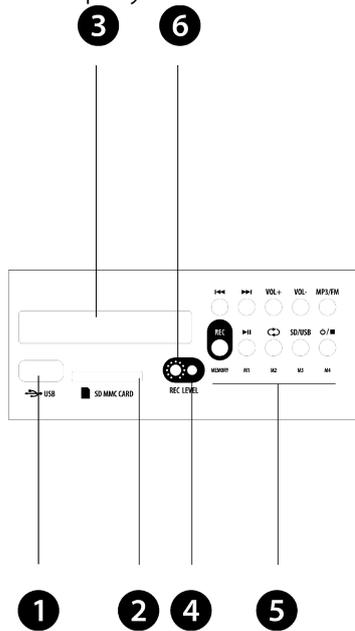
### Rear Panel



- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Power connector and AC fuse (T1AL 250V)</li> <li>2. Screw terminal for 12V DC power supply</li> <li>3. Screw terminal output</li> <li>4. FM antenna connector</li> </ol> | <ol style="list-style-type: none"> <li>5. Direct power amplifier input</li> <li>6. Preamplifier output</li> <li>7. AUX/PHONO input</li> <li>8. AUX/PHONO gain selector</li> </ol> |
|--|---|

## 6 Operation

Media player



1. USB slot
2. SD/MMC card slot
3. LCD display
4. Record clip indicator
5. Control keyboard
6. Record level control

### Function description

#### *Amplifier*

##### **PRIORITY MICROPHONE INPUT**

This is unbalanced microphone input which has a priority over the microphones, AUX/PHONO inputs and media player.

##### **PRIORITY MICROPHONE LEVEL CONTROL**

This knob is designed for the priority microphone volume level controlling.

##### **MICROPHONE INPUT**

This is unbalanced microphone input.

##### **MICROPHONE LEVEL CONTROL**

This knob is designed for the microphone volume level controlling.

##### **BASS TONE CONTROL**

This knob is used to attenuate low frequency tones of the sound. Low frequency can be adjusted in  $\pm 10$  dB range at 100 Hz point.

##### **AUX/PHONO LEVEL CONTROL**

This knob is designed for the AUX/PHONO input volume level controlling.

##### **TREBLE TONE CONTROL**

This knob is used to attenuate high frequency tones of the sound. High frequency can be adjusted in  $\pm 10$  dB range at 100 kHz point.

##### **MASTER VOLUME CONTROL**

This knob is designed to adjust main volume of the amplifier.

##### **POWER SWITCH**

By using this switch amplifier can be turned on/off.

**POWER INDICATOR**

This LED lights up after amplifier's turning on.

**POWER CONECTOR AND FUSE**

Power connector is designed for main powers connecting to amplifier. This connector is combined with fuse holder and 1A, 250V fuse.

**SCREW TERMINAL FOR 12V DC POWER SUPPLY**

This terminal is designed to power up the amplifier when the main power is unavailable. Use only DC 12V power supply or batteries and take attention to polarity during the wiring.

**SCREW TERMINAL OUTPUT**

This terminal is designed to connect audio line to amplifier. There are available 4 types of output: low impedance 4  $\Omega$  output, 25  $\Omega$ , 70 V and 100 V outputs for audio line. Please find same connection examples in page 8.

**PREAMPLIFIER OUTPUT**

This is line level output directly from device preamplifier. Preamplifier output and amplifier input are designed to insert signal processor such as equalizer or limiter.

**DIRECT AMPLIFIER INPUT**

This is line level input directly to device power amplifier. Preamplifier output and amplifier input are designed to insert signal processor such as equalizer or limiter.

**AUX/PHONO INPUT**

Stereo RCA input with selectable sensitivity. There is a possibility to connect the line level audio as well as phonograph.

**AUX/PHONO SELECTOR**

This selector is designed to adjust the gain for the AUX/PHONO INPUT.

Media player

**USB SLOT**

USB slot for the USB flash drive inserting.

**SD MMC SLOT**

SD MMC slot for the SD MMC card inserting.

**NEXT**

Single press will change the playing track to next track. Single press in random playing mode skips to random track. In FM tuner mode this button starts radio station searching if hold it few seconds. Short press add 100 kHz step to the radios station frequency.

**FORWARD**

Single press will change the playing track to forward track. Single press in random playing mode skips to random track. In radio tuner mode this buttons stars radio station searching. In FM tuner mode this button starts radio station searching if hold it few seconds. Short press add 100 kHz step to the radios station frequency.

## 8 Operation

### **VOL+**

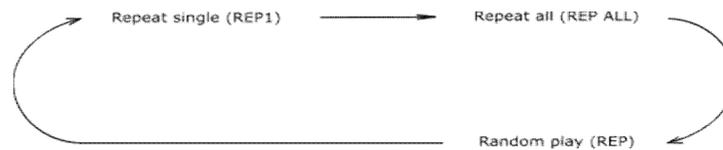
Increase the music player volume.

### **VOL-**

Decrease the music player volume.

### **REPEAT**

Pressing this key allows to change sound tracks playing mode like in picture below.



### **PLAY/PAUSE**

By pressing this key when device is stopped, play starts after track search. When this key is pressed during playing the mode of the device is changed into pause. When this key is pressed during pause, it switch back to play mode.

### **ON/OFF**

Turns on/off the music player.

### **LCD DISPLAY**

Displays the status of the device and information about the playing track (time and tack number).

### **PRESETS (M1, M2, M3, M4)**

In order to save the FM radio station to the presets, set radio station frequency, push "MEMORY" button and hold one of these presets buttons for second. To recall radio station push presets button shortly.

### **RECORD**

Record function can be activated by pressing REC button. After pressing "REC", select record storage by using USB/SD key and press "REC" one more time to start recording. REC message on the screen indicates successfully recording. If "ERR" message appears on the screen, press "STOP" button, check storage and try again.

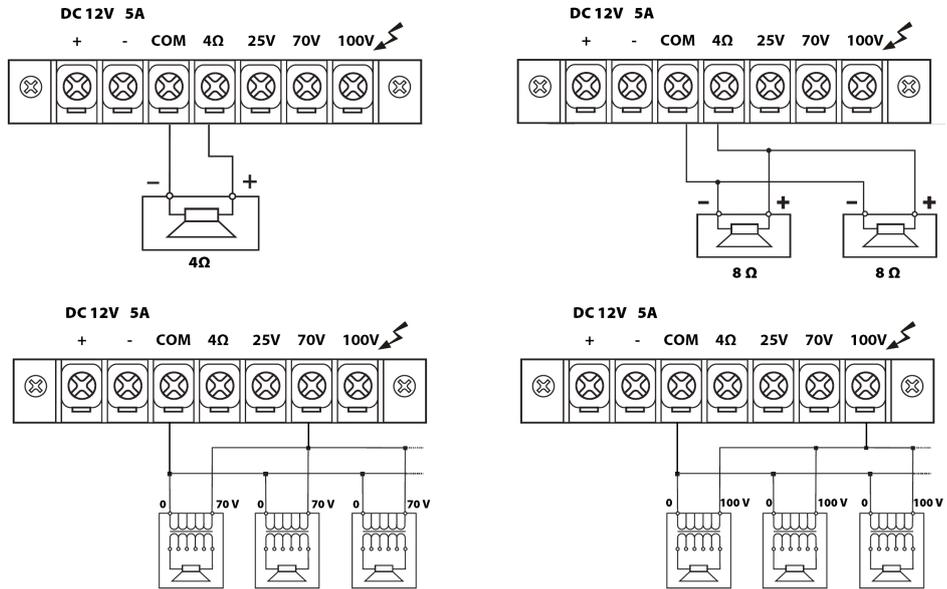
### **RECORD LEVEL CONTROL**

This is potentiometer for record level adjusting. Adjust record level in order to prevent signal distortion in the recorded track. Pay attention to the clipping LED located near the potentiometer. If LED blinks it means that recording audio level is too high and recorded track can be distorted. To prevent distortion reduce audio level by using mentioned potentiometer.

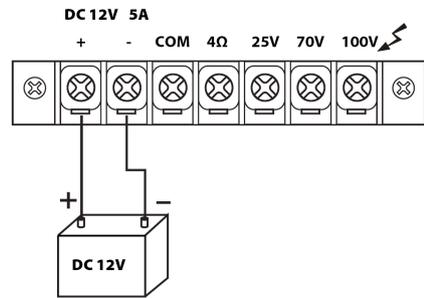
### **RECORD CLIP INDICATOR**

If LED blinks it means that recording level is too high and record can be distorted. In order to guarantee quality record, adjust record level potentiometer till clipping LED stops blinking.

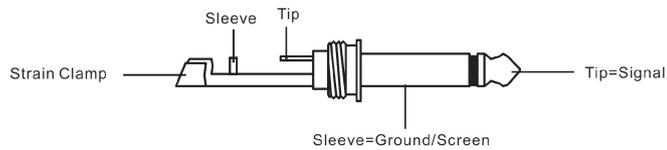
Output terminal



There is a possibility to connect external power supply, external battery etc. Please find the connection example.

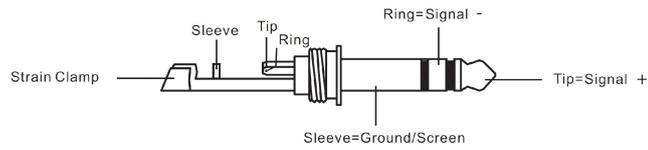


Connectors

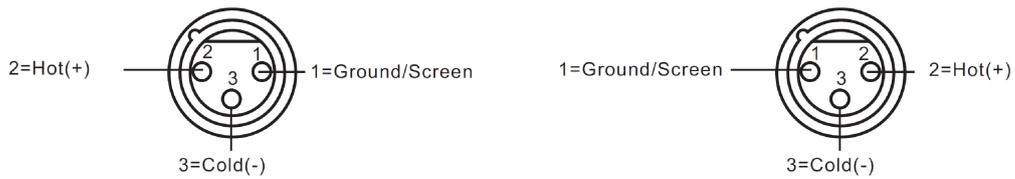


TS connector

# 10 Controls and connections

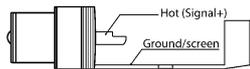


TRS connector



XLR male connector

XLR female connector



RCA connector

Cable wiring examples



Cable to balanced input from balanced output. TRS connectors.



Cable to unbalanced input from balanced output. TRS and TS connectors.

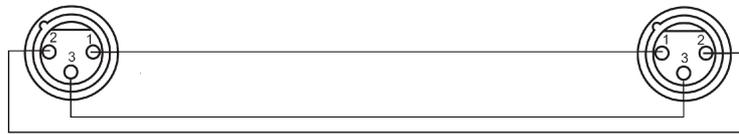
# 11 Controls and connections



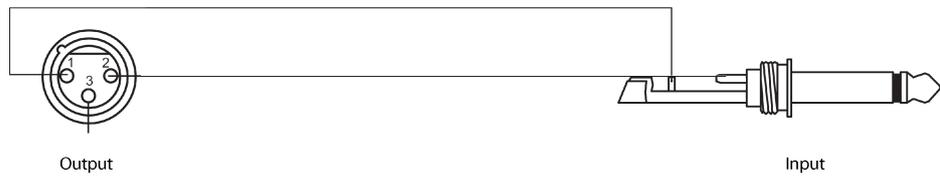
Cable to balanced input from unbalanced output. TS and TRS connectors.



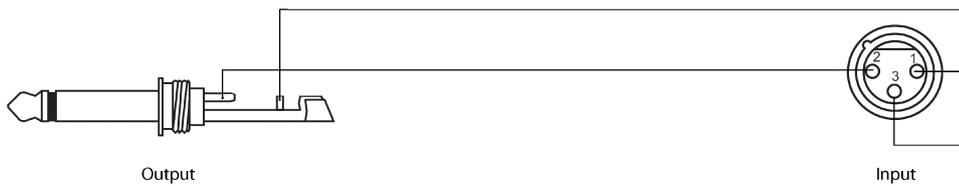
Cable to unbalanced input from unbalanced output. TS connectors.



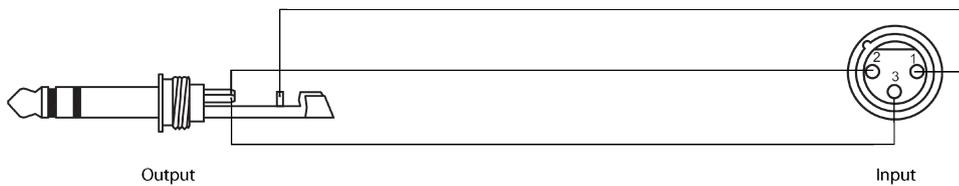
Cable to balanced input from balanced output. XLR connectors.



Cable to unbalanced input from balanced output. XLR and TS connectors.



Cable to balanced input from unbalanced output. TS and XLR connectors.



Cable to balanced input from balanced output. TRS and XLR connectors.



Output

Input

RCA cable.



Output

Input

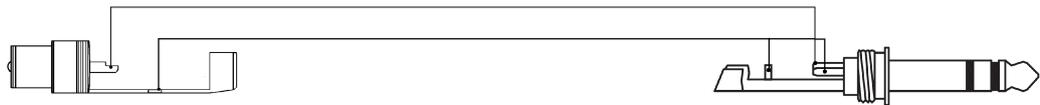
Cable to unbalanced input from RCA output. RCA and TS connectors.



Output

Input

Cable to balanced input from RCA output. RCA and XLR connectors.



Output

Input

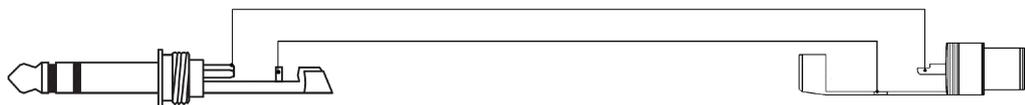
Cable to balanced input from RCA output. RCA and TRS connectors.



Output

Input

Cable to RCA input from balanced output. RCA and XLR connectors.



Output

Input

Cable to RCA input from balanced output. RCA and TRS connectors.

## General specifications

<b>Power supply</b>	AC 230 V, 50 Hz or 12 V DC
<b>Output power</b>	30 W RMS
<b>AC power consumption (Standby)</b>	16 W
<b>AC power consumption</b>	86 W @ RATED POWER
<b>Total harmonic distortions</b>	0,5 %
<b>MIC sensitivity</b>	-47 dBu
<b>PHONO sensitivity</b>	-47 dBu
<b>AUX sensitivity</b>	-17 dBu
<b>Frequency response</b>	80 Hz – 18 kHz +/- 3 dB
<b>Recording bitrate</b>	128 kbps
<b>Output</b>	100 V, 70 V, 25 V, 4 Ω
<b>Bass control</b>	100 Hz +/-10 dB
<b>Treble control</b>	10 kHz +/-10 dB
<b>Dimensions</b>	75 mm (H) x 190 mm (W) x 280 mm (D)
<b>Weight</b>	4,5 kg