

User Manual

MPA 60 Media player amplifier



Safety instructions

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 amplifier has a stable base and it is fixed securely.
- 4 This product, in combination with 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.
- 5 The product should be located away from heat sources such as radiators, heat vents, or other devices 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.
- 7 The power supply should be undamaged and never share an outlet or extension cord with other devices. Never leave device plugged into the outlet when it is not being used for a long period of time.
- 8 Care should be taken that objects do not fall into liquids and liquids would not be spilled on the device.
- 9 The product should be serviced by qualified service personnel if:
 - The power supply 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 microphone receiver or power supply. The cover should be removed by the qualified personnel only.

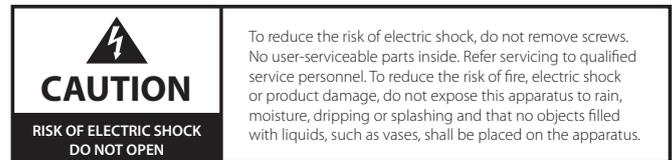


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Before you start

MPA 60 user-friendly mixing amplifier with integrated media player. Supports compressed audio files and is an excellent device for small size applications where amplification with music source or audio signal mixing is required.

FEATURES

- D-class amplifier
- Switching power supply
- Built-in USB/SD player and recorder
- Bluetooth interface
- FM tuner
- IR remote control for media player
- 3.5 mm Jack AUX input
- XLR and 6.3 Jack microphone inputs
- RCA inputs for line level audio
- Phantom power and microphone priority
- Smooth input gain control
- Tone control

Operation

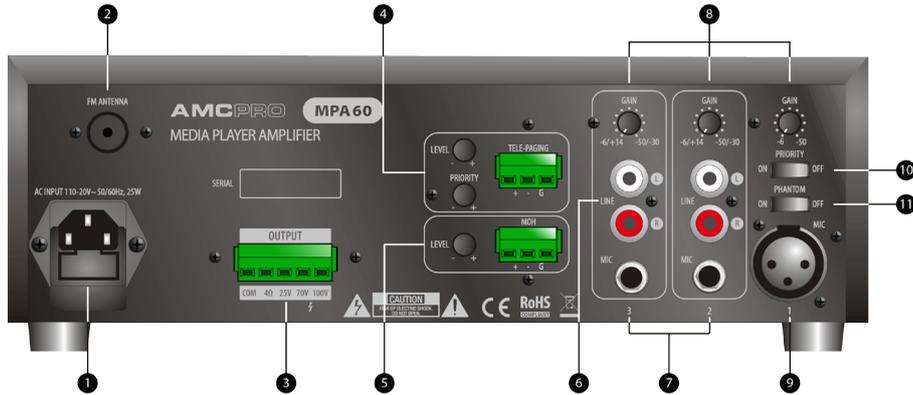
Front Panel



1. Input level control | 2. Media player | 3. Aux input | 4. Tone control
5. Master level control | 6. Led indicators | 7. Power switch

Operation

Rear Panel



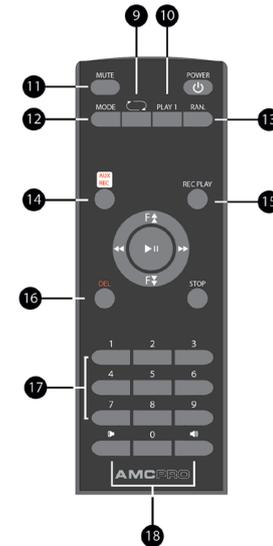
1. Main power connector and fuse | 2. Antenna connector | 3. Outputs | 4. Telephone-paging input | 5. Music on hold output | 6. Line level audio input 7. Microphone input | 8. Gain control | 9. Priority microphone input | 10. Priority switch | 11. Phantom power switch

Operation

Media Player



- 1. LED screen | 2. USB connector | 3. SD card | 4. Preset | 5. Backward | 6. Play/Pause
- 7. Forward | 8. Power | 9. Repeat | 10. Play 1 | 11. Mute | 12. Mode | 13. Random
- 14. Record | 15. Record play | 16. Delete | 17. Number keyboard | 18. Volume control



Operation

Front panel operation

INPUT LEVEL CONTROL

These rotary knobs are designed for adjusting volume level of the Input 1, input 2 and input 3. First three inputs can be used for microphone or line level audio. The gain of this inputs can be adjusted in rear panel.

AUX INPUT

This is 3,5mm stereo Jack input for connecting audio from mobile device, laptop or PC. Audio level of this input can be controlled by using input 3 level control. Gain of this input is fixed and can not be adjusted.

TONE CONTROL

The separate tone controls provide attenuation of bass and treble response. The flat position is obtained when the knobs are set to middle position. Turn bass control knob (BASS) and treble tone control knob (TREBLE) clockwise to raise tone level approximately +10 dB; turn counterclockwise to lower tone level by approximately -10 dB.

MASTER LEVEL CONTROL

This potentiometer is designed to adjust audio level in the main output.

LED

SIGNAL LED. Signal LED indicates audio signal in the amplifier output. There are two signal indicators, first indicates audio signal level when it reach -30dBu, second -20dBu.

CLIP INDICATORS. Yellow LED indicates when amplifier starts distort audio signal. If the indicator starts lighting continuously the output signal is distorted. In this case, decrease the audio level by master volume control.

PROTECT INDICATOR. This LED lights up for a few seconds after the amplifier is powered on and then turns off if the amplifier is not damaged. It is normal for the protection LED to fade slowly or blink when the amplifier is powered off. If this indicator starts lighting continuously, turn off amplifier for 10 second and then turn on again. If LED still indicates after power reset it means amplifier is damaged and need to send to service for repairing.

Operation

Front panel operation

MAIN POWER CONNECTOR AND FUSE

Power connector is designed for main powers connecting to amplifier. This connector is combined with fuse holder and 1.6 A 250V fuse.

ANTENNA CONNECTORS

MPA 60 amplifier is supplied with the music source module and FM tuner. We are highly recommended to use outdoor FM antenna in order to ensure reliable FM radio receiving.

OUTPUTS

LOW IMPEDANCE OUTPUT. Output design for 4 and 8 Ω loudspeakers. Operating amplifier with 8 Ω and 100V at the same time is forbidden. It may damage the amplifier or connected speakers.

HIGH IMPEDANCE OUTPUT. Output terminal is designed to connect speaker line to amplifier. There are available two types, 70V and 100 V outputs for constant voltage audio lines. Amplifier can run only one output configuration at the same time. Operating amplifier using 8/4 Ω and 100/70 volt concurrently may cause damage the amplifier or connected speakers.

TELEPHONE-PAGING INPUT

This is balanced input for line level audio source, PBX station or messages player. **TELE PAGING LEVEL.** Volume control for tele paging input. **TELE PAGING PRIORITY CONTROL.** Designed to adjust tele paging input priority. The MIN position disables priority function meanwhile MAX totally mute audio from music player and all other inputs when audio signal is detected in tele paging input.

MUSIC ON HOLD OUTPUT

Music on hold audio output supply balanced line level signal from Input 2, Input 3 and music player. Signal level can be adjusted by using potentiometer located on rear panel near the phoenix connector. Music on hold signal is irrespective from tone control and master volume.

Operation

Front panel operation

LINE LEVEL AUDIO INPUT

RCA input for line level audio. Stereo RCA connectors. Input gain can be adjusted by using gain potentiometer, minimum is -14dBu, maximum -30dBu.

MICROPHONE INPUT

This is balanced microphone input for dynamic microphone only. TRS jack connector size 6.3mm. Input gain can be adjusted by using potentiometer from -6dBu to -50dBu.

GAIN CONTROL

This control allows precisely adjust inputs gain. Microphone inputs can be adjusted from -6dBu to -50dBu, line level from +14dBu to -30dBu.

PRIORITY MICROPHONE INPUT

Balanced XLR microphone input, can be set as priority input, in this case it can mute signals from input 2, input 3, AUX and music player. Input 1 is suitable for dynamic and condenser microphones as well. For condenser microphones phantom power must be enabled.

PRIORITY SWITCH

Microphone input 1 can be set as priority input. To activate the priority, please set priority switch to „on“ position. To deactivate, set to position „off“.

PHANTOM POWER SWITCH

Set phantom power switch to „ON“ position to activate phantom power to Input 1 XLR. Maximum phantom power voltage is +14V. To disable phantom power set switch to „off“ position.

Operation

Media player

LCD SCREEN

LCD screen displays main information about media player status: track number and time, media player volume level, music source, FM frequency.

PRESET

This buttons saves current radio frequency to preset. Press PSET button in order to save FM radio station which is showing on LCD screen, select preset number by using play/pause button. Press PSET one more time to finish preset saving.

BACKWARD

Single press of this button will change currently playing soundtrack to previously track. If button is held for a few seconds in FM tuner mode it starts radio station auto searching. Single short press will add 0.05 MHz step to the radios station frequency. In USB and SD card mode holding this button reduce volume level of media player.

FORWARD

Single press of this button will change currently playing soundtrack to next. If button is held for a few seconds in FM tuner mode it starts radio station auto searching. Single short press will add 0.05 MHz step to the radios station frequency. In USB and SD card mode holding this button increase volume level of media player.

PLAY/PAUSE

Start play by pressing this key when device is stopped. When this key is pressed during playing from USB or SD card the mode of the media player will be changed into pause. When this key is pressed during pause, it switch back to play mode.

Operation

Media player

MODE

Single short press will change the playing mode between FM, SD, USB, Bluetooth and AUX. Hold this button for 3 second in order to turn off media player.



POWER

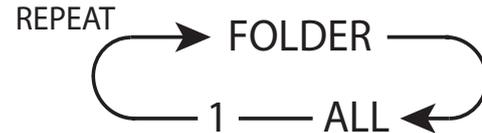
Use this switch to power on/off media player. Power button must be held by 3 second.

MUTE

Press "Mute" button to mute audio output, to disable mute press "Mute" again.

REPEAT

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



RANDOM

This button enables random playing of the sound tracks.

PLAY 1

This key activates one track repeat mode.

RECORD

Record function allows to record audio signal which is playing in the main output. Function can be activated by pressing REC button if AUX mode is selected in media player.

Operation

Media player

DELETE

This function allows delete audio files. Press DEL button on selected audio file and it will be deleted from USB or SD card.

BLUETOOTH PAIRING

All the time when Bluetooth mode is selected, media player automatically starts searching Bluetooth devices. In order to play audio, select and pair device named "Audio Bluetooth" at your smart phone or tablet screen. Next time your device will be paired automatically. At the Bluetooth searching moment media player screen displays blinking lines - - - -. Lines stops blinking if media player and smart device connection is successful.

VOLUME CONTROL

These buttons allow to adjust music player volume.

NUMBER KEYBOARD

It allows you to select a radio station from the FM preset or select the audio track from USB or SD.

General Specifications

MPA 60

Output power	60W
Power supply	110~230 V 50/60 Hz
Outputs	Low impedance output- 4 Ω , 8 Ω Hi impedance outputs 70V, 100V
MIC	Sensitivity -6 dB ~ -50 dB Priority Input CH1 Connectors XLR for CH1, Balanced TRS 6.3 jack for CH2 and CH3
LINE	Sensitivity +14 ~ 30 dBu Connector RCA, 3,5mm TRS jack
TELE PAGING	Sensitivity: 0 ~ 30 dBu Connector: Phoenix

Frequency response	80 Hz ~ 18 kHz
Tone control	Bass 100 Hz \pm 12 dB Treble 10 kHz \pm 12 dB
THD	0,5 %
Controls	MIC and AUX/PHONO input level controls, tone control, USB SD card player volume control, master volume control.
Indicators	Power, audio signal, clip, protect
Dimensions	260 mm x 27 mm x 90 mm
Weight	3,5 kg

The specifications are correct at the time of printing this manual.
For improvement purposes, all specifications for this unit, including
design and appearance, are subject to change without prior notice.