

User Manual

MP 02B Music Player



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 microphone receiver has a stable base and it is fixed securely.
- 4 This product, in combination with loudspeakers and amplifier 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 otorhinolaryngologist.
- 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.


 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	To reduce the risk of electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel. 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.
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Before you start

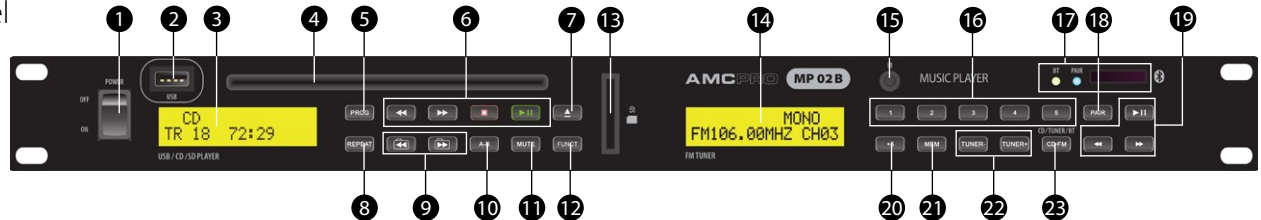
MP 02B music player with integrated SD card and USB flash drive readers, CD player, FM radio tuner and Bluetooth audio player.

FEATURES

- Compressed audio playback
- Supports up to 32GB USB flash and SD cards
- ID3 information support
- FM radio tuner
- Bluetooth audio player
- IR remote control
- Stereo RCA output

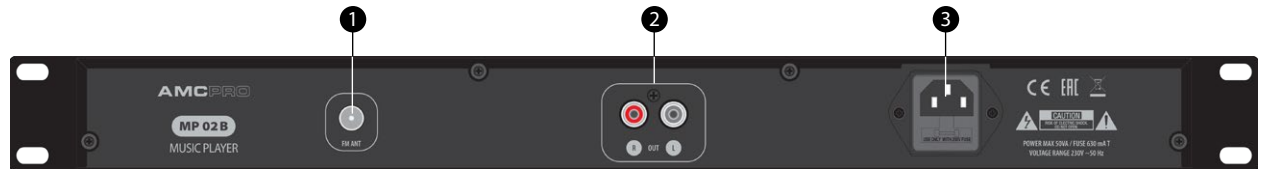
Operation

Front Panel



1. Power switch | 2. USB slot | 3. CD/USB/SD player display | 4. CD slot | 5. Program | 6. Player controls | 7. CD eject | 8. Repeat | 9. Folder skip
10. A-B repeat | 11. Mute | 12. Function | 13. SD/MMC card slot | 14. Radio tuner display | 15. IR receiver | 16. Station presets
17. Bluetooth antenna and indicators | 18. Bluetooth pair | 19. Bluetooth player controls | 20. Jump through 5 radio station presets | 21. Memory
22. Station search | 23. Music source select: CD/TUNER/BLUETOOTH

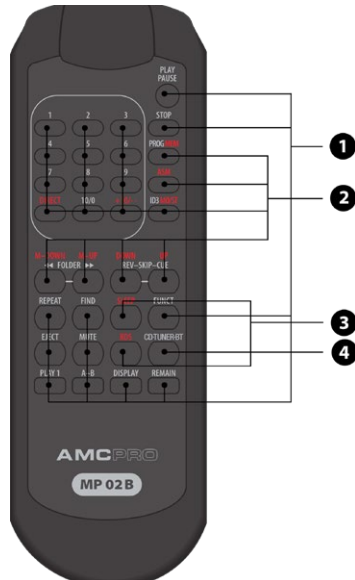
Rear Panel



1. FM antenna connector | 2. Stereo RCA output | 3. Mains power input and fuse holder

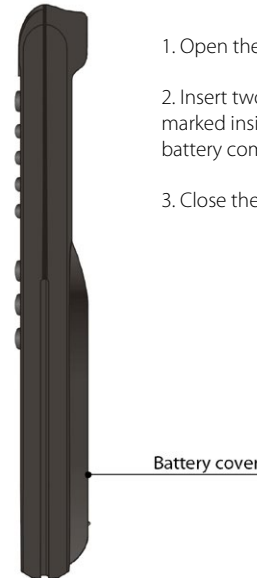
Operation

Remote control



Changing batteries

1. Open the battery cover
2. Insert two AAA batteries as marked inside the remote control battery compartment
3. Close the battery cover



1. IR remote buttons which are assigned to control CD/USB/SD player only. | 2. IR remote buttons which are assigned to control both CD/USB/SD player and radio tuner. In white color are marked functions for the CD/USB/SD player, in red – functions for the radio tuner. | 3. IR remote buttons which are assigned to control radio tuner player only. | 4. Select CD/USB/SD or Radio tuner for IR remote control. Selected player is indicated by green color LED on the front panel.

Operation

CD/USB/SD Functions

FUNCT

Select audio source (CD/USB/CARD) .

PLAYER CONTROLS

Play/Pause, Stop and skip files.

FOLDER SKIP

Select previous or the next folder.

A - B

Repeat selected place in the file. When file is playing pressing this button one time sets start point and pressing the second time sets end point. Press "A-B" button one more time to stop repeating playback.

EJECT

Ejected CD from the player.

PROG

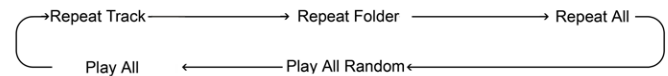
Key is used for programming. All programming is cleared when STOP key is pushed in the programming mode.

MUTE

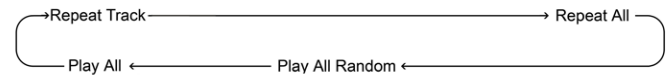
Mute and unmute sound from the output.

REPEAT

In USB/SD mode, when pushing the key PLAY mode switches like shown below:



While pushing the key in CD mode, PLAY mode is changed in this order:



Operation

FM Radio Tuner Functions

MEMORY

When radio tuner is on pressing "MEM" button starts flashing preset number. Set the preset number using number keys and press "Memory" to save the preset. The displayed frequency will be stored in the selected preset (1-30). After 5 seconds of inactivity player exits memory mode automatically.

+5 AND +10/--

These keys allow to select presets 1-5, 6-10 ... 26-30 from the front panel or 1-10, 2-20, 3-30 from the remote. Long press of +10/-- key will allow entering preset number using number keys.

ASM

This a function to auto search and store radio stations. Long press of "ASM" button will search for all available radio stations and store them in memory presets.

MANUAL TUNING

Long press of "UP" or "DOWN" on the remote or "TUNE - / +" on the front panel will start auto tuning. Short press adjusts frequency manually in 50kHz steps.

SLEEP

In sleep mode radio tuner automatically turns off after set time. Maximum time for sleep function is 90 minutes.

DIRECT

Set radio frequency using the number keys. Press this button once, input station frequency, press "DIRECT" key again to confirm the frequency and the tuner will jump to this station.

If the input frequency is beyond the range, the tuner will display ERR.

SLEEP

In sleep mode radio tuner automatically turns off after set time. Maximum time for sleep function is 90 minutes.

MO/ST

Press "MO/ST" button to set mono or stereo mode for the radio tuner.

RDS

Change RDS functions* cyclically: PS → PTY → RT → CT

PS – program service (call letters or station identity name will displayed)

PTY - program type

RT - radio text (textual information, usually title and artist of the currently playing song)

CT - clock time

RDS functions* - the RDS information and functions depend from radio station broadcasting.

Operation

Bluetooth Audio Player Functions

CD/TUNER/BT

Select audio source: CD player, FM TUNER or Bluetooth player

PAIR LED INDICATOR

LED is ON with short blinks – searching for the paired device (not connected).

LED is constantly blinking – the Bluetooth module is in pairing mode.

LED is OFF – device is successfully paired and connected.

PAIRING

Pressing this key for 3 seconds will enter Bluetooth pairing mode (PAIR LED indicator starts blinking). Connect to the player using your Bluetooth audio device.

BLUETOOTH AUDIO PLAYER CONTROLS

Start or pause connected Bluetooth device audio playback, skip tracks.

MANUAL TUNING

Long press of “UP” or “DOWN” button will start auto tuning.

Short press of “UP” or “DOWN” button adjusts frequency manually in 50kHz steps.

General Specifications

MP 02B

Power supply :	230V AC 50Hz
Power consumption:	50 VA
Weight:	3,8kg
Dimension:	482mm x 44mm x 250mm
Output	Unbalanced stereo RCA
CD/USB/SD section	
Output level:	+4dBu (± 2 dBu)
Output level difference between channels	2dB
Frequency response	20 Hz 20 KHz
Audio channel separation @ 1 KHz	60 dB
THD	0,1 %
S/N ration	70 dB

FM radio tuner section	
Output level:	-5 dBu
Tuning Frequency range	87,5 – 108 MHz
Sensitivity	10 μ V
S/N ratio	55 dB
Image rejection	45 dB
THD	0,1 %
Audio channel separation	35 dB
Antenna input	FM 75 ohm unbalanced
Memory	30 presets

