User Manual

MP03
Music Player

AMC®

MUSIC PLAYER MP 03

NO DISC

USB / CD / MC PLAYER

FM TUNER

FM 107.5 s MHZ

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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Specifications

Before you start

MP 03 music player with integrated SD/MMC card, USB flash drive readers, CD player and FM radio tuner. MP 03 can be controlled with front panel buttons, IR remote or RS-232 interface.

FEATURES

- Compressed audio playback

- Supports up to 32GB USB flash and SD cards

- ID3 information support

- FM radio tuner

- RS-232 remote control interface

- IR remote control

- Stereo RCA and balanced mono Phoenix outputs

- Separate outputs for CD player and radio

Operation

Front Panel
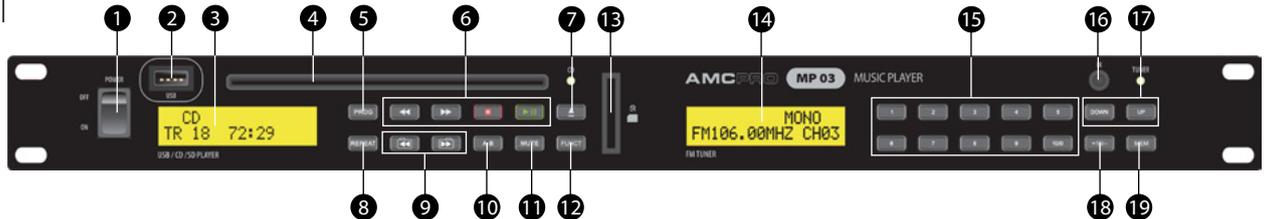
1. Power switch | 2. USB slot | 3. CD/USB/SD player display | 4. CD slot | 5. Program | 6. Player controls | 7. CD eject | 8. Repeat | 9. Folder skip
10. A-B repeat | 11. Mute | 12. CD/USB/SD select | 13. SD/MMC card slot | 14. Radio tuner display | 15. Station presets | 16. IR receiver | 17. Station search
18. Jump through 10 station presets | 19. Memory

Rear Panel
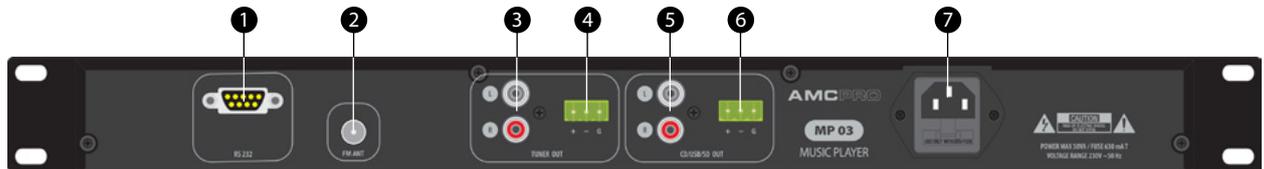
1. RS-232 port | 2. FM antenna connector | 3. CD/USB/SD player stereo RCA output | 4. CD/USB/SD player balanced mono Phoenix output
5. FM radio tuner stereo RCA output | 4. FM radio tuner balanced mono Phoenix output | 7. Mains power input and fuse holder

Operation

Remote control
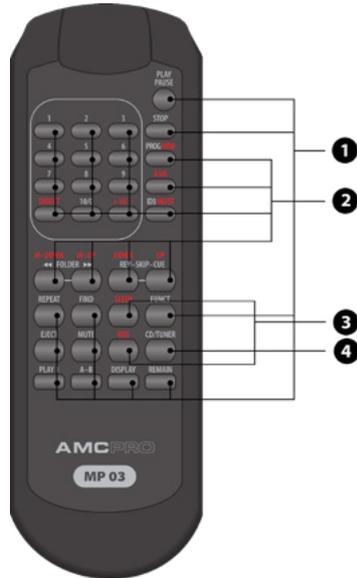
Changing batteries

1. Open the battery cover

2. Insert two AAA batteries as marked inside the remote control battery compartment

3. Close the battery cover

Battery cover
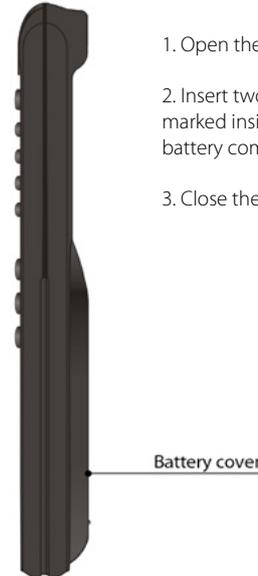
1. IR remote buttons assigned to control CD/USB/SD player only. | 2. IR remote buttons assigned to control both CD/USB/SD player and radio tuner. Functions for the CD/USB/SD player marked white, functions for the radio tuner marked red. | 3. IR remote buttons assigned to control radio tuner player only
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
This button is designed for audio source selection. (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:

Repeat Track → Repeat Folder → Repeat All → Play All → Play All Random →

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

Repeat Track → Repeat All → Play All → Play All Random →

Operation

FM Radio Tuner Functions

MEMORY
When radio tuner is on pressing "Memory" 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.

SETTING THE CLOCK
When radio tuner is turned off pressing "Memory" button will display the time.
Use UP/DOWN keys to adjust minutes. Press "Memory" again to adjust hours.
To confirm setting, press "Memory" again.

+10/--
This key allows to select presets 1-10, 2-20, 3-30 from the front panel.
Long press of this key will allow enering 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" button will start auto tuning.
Short press of "UP" or "DOWN" button adjusts frequency manually in 50kHz steps.

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.

RS-232 commands

CD/USB/SD player

Functions	Byte	1	2	3	4	5
		ASCII	ASCII	ASCII	HEX	HEX
Folder skip -		E	A	A	0d	0a
Folder skip +		E	A	B	0d	0a
Down		E	A	C	0d	0a
Up		E	A	D	0d	0a
Stop		E	A	E	0d	0a
Play / pause		E	A	F	0d	0a
Eject		E	A	G	0d	0a
Mute		E	A	K	0d	0a
Repeat		E	A	L	0d	0a
Func		E	A	M	0d	0a
0		E	A	0	0d	0a
1		E	A	1	0d	0a
2		E	A	2	0d	0a
3		E	A	3	0d	0a
4		E	A	4	0d	0a
5		E	A	5	0d	0a
6		E	A	6	0d	0a
7		E	A	7	0d	0a
8		E	A	8	0d	0a
9		E	A	9	0d	0a
Answer form device if OK		+	O	K	0d	0a
Answer form device if ERROR		+	E	R	0d	0a

FM Radio Tuner

Functions	Byte	1	2	3	4	5
		ASCII	ASCII	ASCII	HEX	HEX
1		E	C	A	0d	0a
2		E	C	B	0d	0a
3		E	C	C	0d	0a
4		E	C	D	0d	0a
5		E	C	E	0d	0a
6		E	C	F	0d	0a
7		E	C	G	0d	0a
8		E	C	H	0d	0a
9		E	C	I	0d	0a
10/0		E	C	J	0d	0a
+10		E	C	K	0d	0a
DIRECT		E	C	L	0d	0a
DOWN		E	C	M	0d	0a
UP		E	C	N	0d	0a
ME-UP		E	C	0	0d	0a
ME-DOWN		E	C	1	0d	0a
MEMORY		E	C	2	0d	0a
ASM		E	C	3	0d	0a
MO/ST		E	C	4	0d	0a
SLEEP		E	C	5	0d	0a
Auto search DOWN		E	C	7	0d	0a
Auto search UP		E	C	8	0d	0a
Answer form device if OK		+	O	K	0d	0a
Answer form device if ERROR		+	E	R	0d	0a

Baud rate 9600, 8 data bits, no parity, 1 stop bit, no flow control.
Please note: The partition between two orders must exceed 300ms.
The partition between "Auto search DOWN "and "Auto search UP" must exceed 800ms.

General Specifications

MP 03

Power supply :	230V AC 50Hz
Power consumption:	50 VA
Weight:	3,5kg
Dimension:	482mm x 44mm x 250mm

CD/USB/SD section	
Output level:	+4dBu (± 2dBu)
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
Output	Unbalanced stereo RCA, balanced mono Phoenix

FM radio tuner section	
Output level:	-5 dBu
Tuning Frequency range	87,5 – 108 MHz
Sensitivity	10 µV
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
Output	Unbalanced stereo RCA, balanced mono Phoenix

Notes