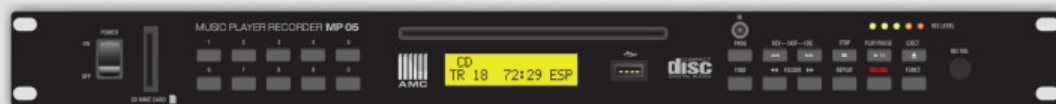




**MP05**

Music player recorder



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.



**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 in to 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.

**No user serviceable parts inside.**

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## What's in the box

The accessories which are included in the MP 05 music player recorder box are:

- Remote control
- Instruction manual
- Power cable

## Hints on installation

Do...

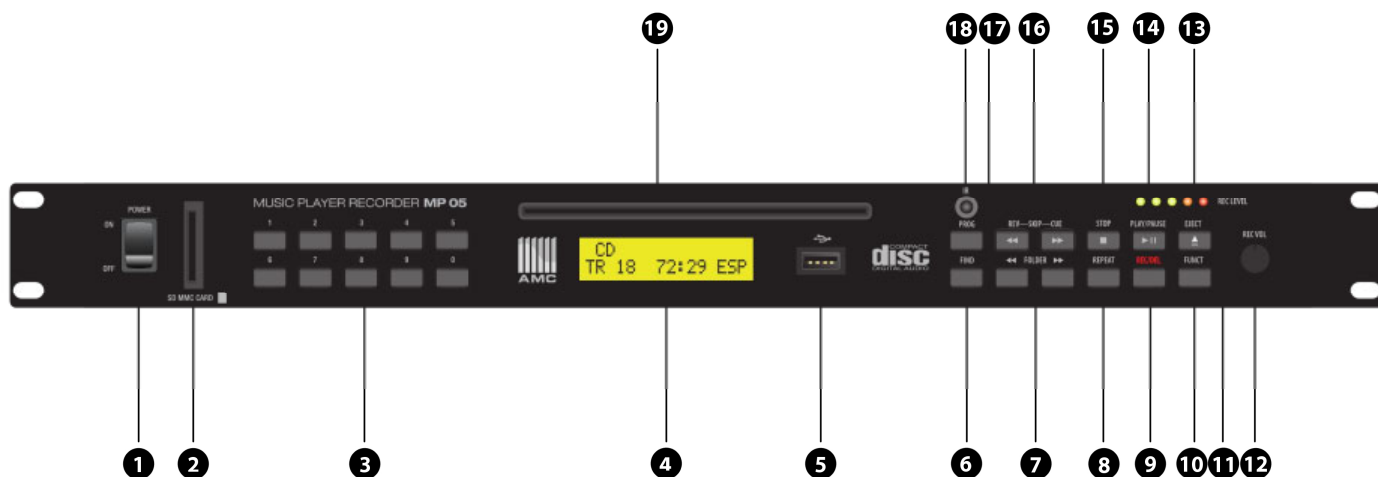
- Use in a well-ventilated room.
- Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

- Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- Place on a window sill or a place where the player will be exposed to direct sunlight.
- Use in an excessively dusty or damp environment.
- Place directly on top of an amplifier, or other component that becomes hot in use.
- Use near television or monitor as you may experience interference-especially if the television uses an indoor antenna.
- Use in a kitchen or other room where the player may be exposed to smoke or steam.
- Use on a thick rug or carpet, or cover with cloth-this may prevent proper cooling of the unit.
- Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.
- Do not use or store batteries in direct sunlight or other hot place, such as inside car or near heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries.

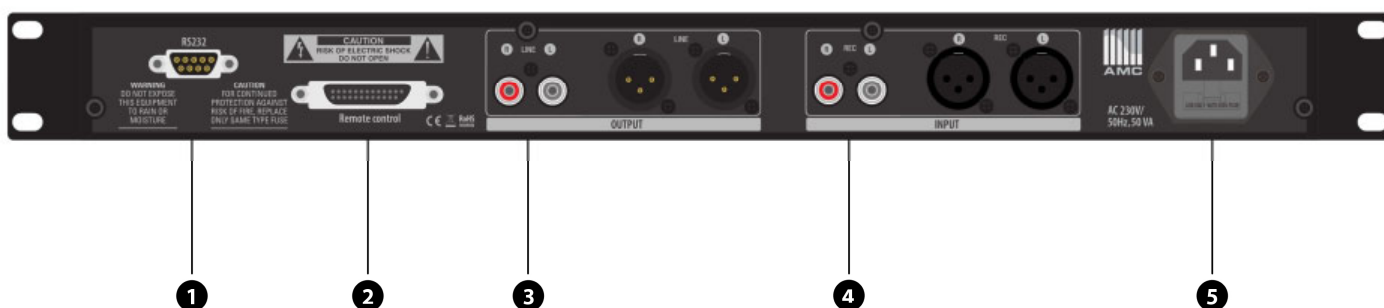
## 5 Controls and connections

### Front Panel



- |                            |                               |
|----------------------------|-------------------------------|
| 1. ON/OFF switch           | 12. Input level potentiometer |
| 2. SD MMC card's slot      | 13. Eject                     |
| 3. Track selection buttons | 14. Play/Pause                |
| 4. Display                 | 15. Stop                      |
| 5. USB flash's slot        | 16. Down/Rev                  |
| 6. Find                    | 17. Prog                      |
| 7. Folder up/down          | 18. IR detector               |
| 8. Repeat                  | 19. CD slot                   |
| 9. Record/delete           |                               |
| 10. Function               |                               |
| 11. Input level indicator  |                               |

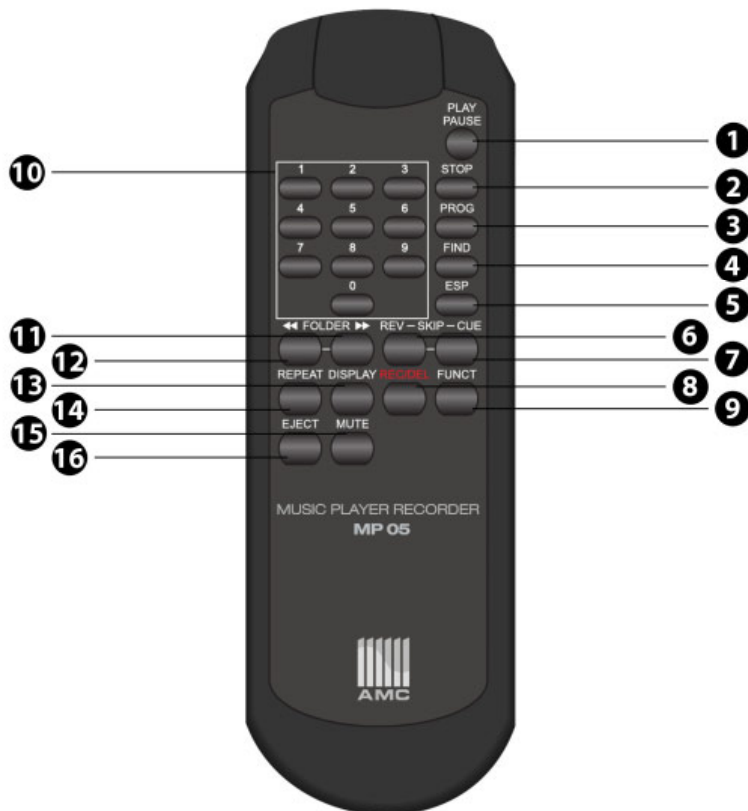
### Rear Panel



- |                            |                                |
|----------------------------|--------------------------------|
| 1. Serial interface RS 232 | 4. Stereo inputs for recording |
| 2. Remote control trigger  | 5. Mains power socket          |
| 3. Stereo outputs          |                                |

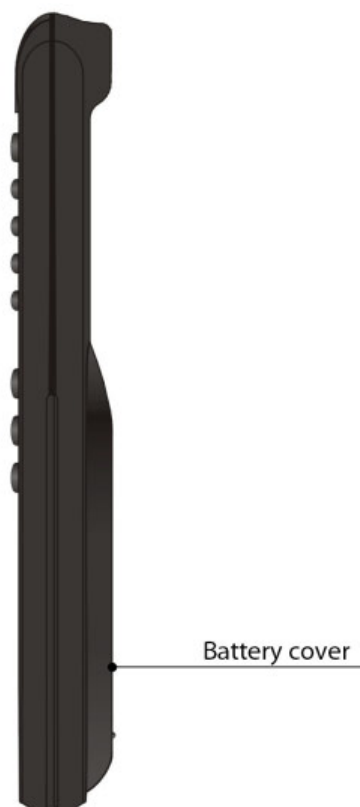
## 6 Controls and connections

### IR remote control



1. Play/Pause
2. Stop
3. Prog
4. Find
5. ESP
6. Rev
7. Cue
8. Rec/del
9. Function
10. Track selection buttons
11. Folder up
12. Folder down
13. Display
14. Repeat
15. Mute
16. Eject

### Batteries changing



1. Open the battery cover.
2. Insert two AAA batteries in accordance with marks in the remote control battery compartment.
3. Close the battery cover

## Functions description

### ON/OFF switch.

Turns on and off the device.

### SD MMC card's slot

This slot is designed for SD and MMC cards. Please note that maximum supported capacity of card is up to 32GB.

### Track selection buttons

Allows select the sound tracks directly.

### Display

Displays the status of the device and main information about the files and folders.

### USB flash's slot

This slot is designed for USB flash disc and it can support up to 32GB capacity.

### Find

By pressing this key once search mode is changed into FILE search. By pressing this key twice search mode is changed into FOLDER search.

### Folder up

In stop mode this key skips the starting play folder to next folder, and automatically switches to first folder if current folder is last.

In the program entry mode this key switches to next folder's first file, if the folder is last it switches to first folder.

In normal play mode this key skips the playing file and switches to next folder's first file.

### Folder down

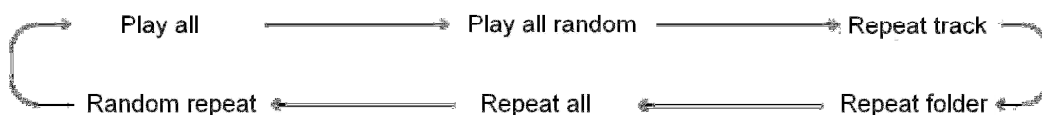
In stop mode this key skips the starting play folder to next previous, and automatically switches to last folder if current folder is first.

In the program entry mode this key switches to previous folder's first file, if the folder is first it switches to last folder.

In normal play mode this key skips the playing file and switches to previous folder's first file.

### Repeat

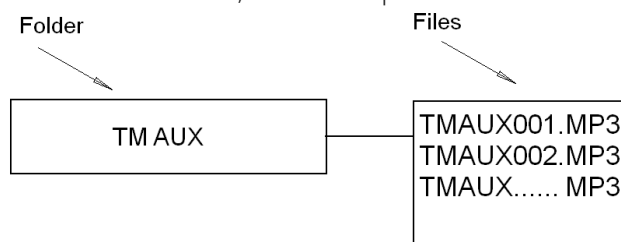
Pressing this key allows to change sound tracks playing mode like in picture below.



## Record/delete

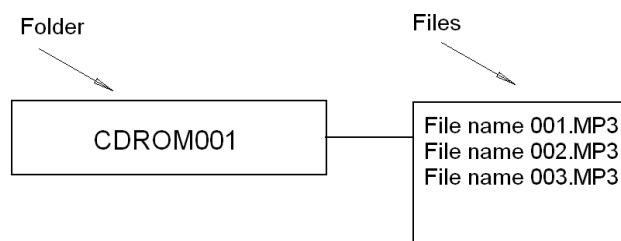
### Recording from AUX input

When AUX is selected on the display, press the REC button to start recording audio signal from the REC input. AUX input must be selected by the "FUNC" button before the start of the recording. The AUX input level can be adjusted by using input level potentiometer according to level indicator located in the front panel. To stop the recording, press the REC button again. For confirmation of successful ending "REC OK" appears on the screen. All records will be named automatically and placed in TM AUX folder, like in the picture below.

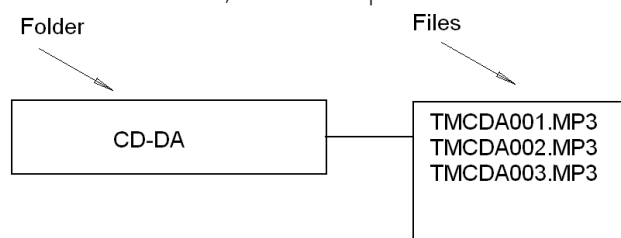


### Recording from CD

If CD player is selected, and CD with compressed audio files is inserted, after pressing REC button CD audio signal will be recorded to SD MMC or USB flash. Press REC button again to stop the recording and the confirmation of successful ending "REC OK" appears on the screen. All records will be named automatically and placed in CDROM folder, like in the picture below.



If CD player is selected and audio CD is inserted, after pressing REC button CD audio signal will be recorded to SD MMC or USB flash. Press REC button again to stop the recording and the confirmation of successful ending "REC OK" appears on the screen. All records will be named automatically and placed in CD-DA folder, like in the picture below.



### Copying

If USB or SD/MMC source are selected you can copy files from one source to another (from USB to SD/MMC and contrary). Press REC button and by using REV and CUE keys find the desired folder. After this you must select the file from this folder by pressing REV or CUE for the long time. Now you can press REC button one more time and copying will be started. During the copy procedure display will show "COPY". If copy is successful "COPY OK" appears on the screen.

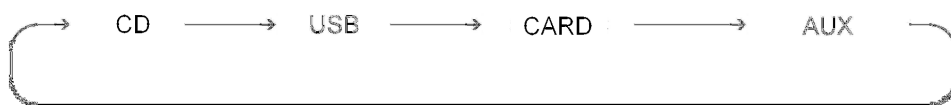


### Delete

If USB or SD/MMC source are selected you can delete files from memory card or flash. First of all you must press DEL button to turn on delete function. By pressing REV or CUE keys find the folder. After this you must select the file from this folder by pressing REV or CUE for the long time. After file selection press DEL button one more time to delete file.

### **FUNC**

This key allows change music source and select AUX input. When this key is pressed device mode are changed cyclically as in picture below.



### **Input level indicator**

These LED's indicates level of the recording signal from the REC input.

### **Input level potentiometer**

This potentiometer is for adjusting the recording audio level from the REC input.

### **EJECT**

By pushing this key CD is ejected.

### **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 in to pause. When this key is pressed during pause, it switches back to play mode.

### **STOP**

When device is playing or is in pause mode, by pressing this you will stop it.

### **Down/Rev**

In stop mode this key changes starting track (file) in descending order, and automatically goes to the last track if it is in first track.

Single pressed in play mode or program mode changes to previous track (file).

By pressing longer than 0,7 sec switches to fast reverse mode.

### **Up/Cue**

In stop mode this key changes starting track (file) in ascending order, and automatically goes to first track if it is in the last track.

Single pressed in play mode or program mode changes to next track, in random mode skips to random track.

By pressing longer than 0,7 sec. switches to fast forward mode..

### **PROG**

This key is used for programming.

All programs are cleared when STOP key is pushed in the programming mode.

### IR detector

Receive controls commands from remote control.

### CD slot

This slot is designed for CD and it can support compressed audio files.

### Serial interface RS 232

D-Sub 9-pin connection for serial interface (RS232). This connector is designed to control device functions by using external control unit, like Creston or PC etc.

### Remote control trigger

Because of this input the device can be controlled by using external push buttons or relays. The maximum distance between the device and push buttons should be up to 10m. if shielded cable are used.

### Stereo output

This is line level output with balanced stereo XLR and stereo RCA connectors.

### Stereo input for recording

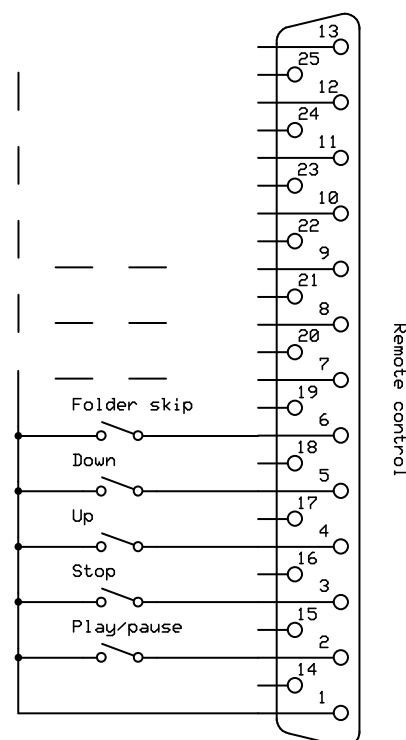
This is line level input with balanced stereo XLR and stereo RCA connectors for the audio recording. Recording audio level can be adjusted by using potentiometer located in the front panel. To prevent signal clipping please give attentions to signal level indicator located in the front panel too.

## Remote control pinout

D-SUB 25 connector

Pin number	Description
1	GND
2	Play/pause
3	Stop
4	Up
5	Down
6	Folder skip >>
7	Folder skip <<
8	Repeat
9	Eject
10	PROG
11	Find
12	Mute
13	Function
14	Record
15	Delete
16	0
17	1
18	2
19	3
20	4
21	5
22	6
23	7
24	8
25	9

Remote control connector. Pin's description.



Remote control wiring diagram

## RS 232 commands

Baud rate 9600,  
8 data bits,  
no parity,  
1 stop bit,  
no flow control.

	Byte	1	2	3	4	5
Functions		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	
PROG	E	A	H	0d	0a	
ESP	E	A	I	0d	0a	
Find	E	A	J	0d	0a	
Mute	E	A	K	0d	0a	
Play mode	E	A	L	0d	0a	
FUNC	E	A	M	0d	0a	
Display	E	A	N	0d	0a	
REC	E	A	O	0d	0a	
Delete	E	A	P	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 from device if OK	+	O	K	0d	0a	
Answer from device if ERROR	+	E	R	0d	0a	

Please note: The partition between two orders must exceed 300ms.

### General specifications

1. Available sources	USB flash, SD/MMC card and CD
2. Maximum compatible USB SD/MMC size	up to 32GB
3. Input	Stereo RCA and balanced Stereo XLR (REC input)
4. Output	Stereo RCA and balanced Stereo XLR
5. Max REC input level	+6 dBu
6. Output level	0 dBu
7. THD	0,1 % @ 1 kHz
8. Frequency response	20 Hz – 20 kHz
9. Signal to noise ratio	80 dB
10. Stereo separation	60 dB
11. Recording bit rate	128 kbps
12. Supported audio formats	Compressed audio
13. Power supply	~230 V 50 Hz
14. Power consumption	50 VA
15. Weight	3,8 kg
16. Dimension	482 mm*44 mm*250 mm