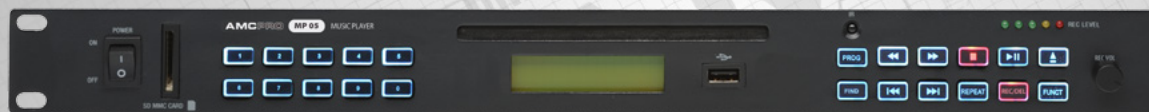


# User Manual

## MP 05 Music player recorder

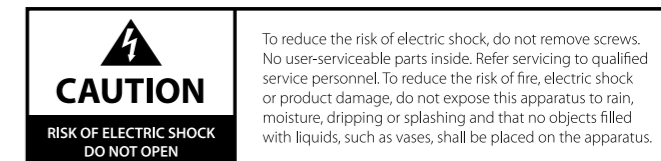


Minimum Usage  
Maximum Usage 65mm

# 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 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.
- 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

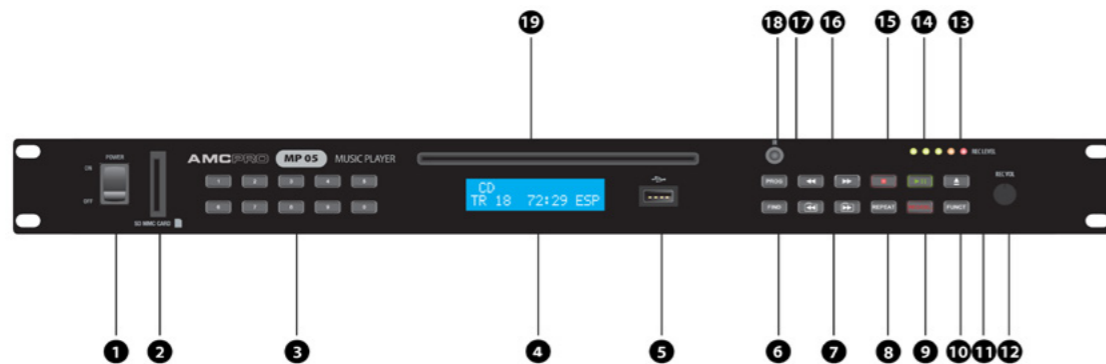
MP05 music player/recorder with integrated SD/MMC and USB flash drive readers and CD player. CD, USB flash drive or SD/MMC card selectable for play back. Recording function is performed on memory cards or USB Flash drive. MP 05 can be controlled by IR remote control, RS232 interface or by trigger inputs in remote control connector.

## FEATURES

- Compressed audio playback
- Audio recording
- Supports up to 32GB USB flash and SD cards
- ID3 information support
- Serial interface
- GPIO inputs
- IR remote control
- Balanced audio inputs and outputs

# Operation

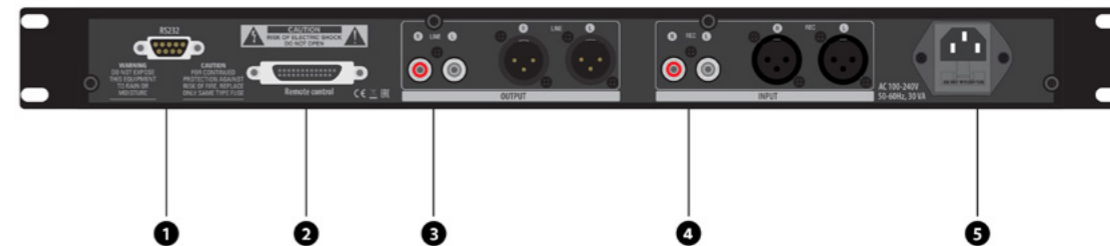
## Front Panel



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

# Operation

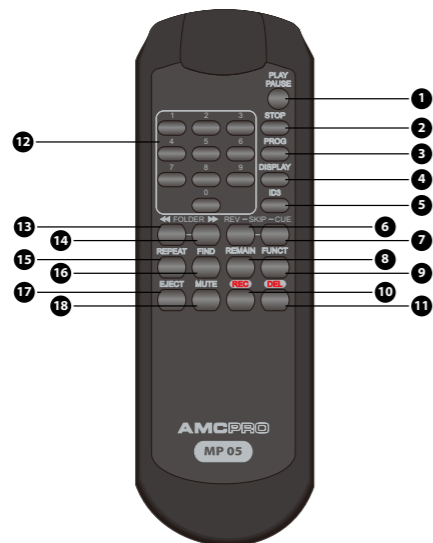
## Rear Panel



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

# Operation

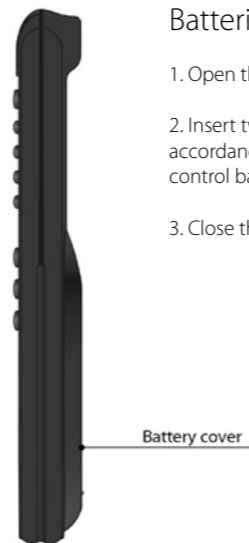
## IR remote control



1. Play/Pause | 2. Stop | 3. Prog | 4. Display | 5. ID3 | 6. Rev | 7. Cue | 8. Remain | 9. Function | 10. Rec | 11. Del | 12. Track selection buttons  
13. Folder up | 14. Folder down | 15. Repeat | 16. Find | 17. Eject | 18. Mute

## 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



# Operation

## Front panel operation

### 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 support 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.

### MUTE

enables or disables audio from CD/USB/SD.

### FOLDER UP

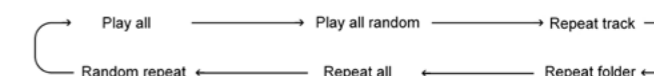
In stop mode this key skips the starting play folder to next folder, and automatically switches to first folder if current folder is last. In the program entry mode this key switches to next folder's first file, if the folder is last it switches to first folder. In normal play mode this key skips the 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.

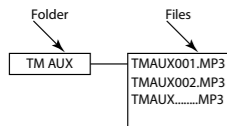


# Operation

## RECORD/DELETE

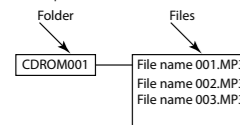
### Recording from AUX input

REC button starts recording audio signal from REC input to USB or SD card, depending with one is inserted. MP05 player will ask you to choose storage, if both USB and SD card will be detected on player. Please use tracks selection button to set storage you wish. AUX input must be selected by using "FUNC" button before the start of recording. The REC input level can be adjusted by using input level potentiometer according to level indicator located in the front panel. To stop recording, press REC button again. Successful recording will be indicated by "REC OK" message on the screen. Records will be named automatically and placed in TM AUX folder, like in the picture below:

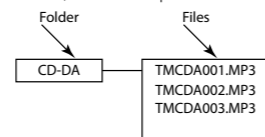


### Recording from CD

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.

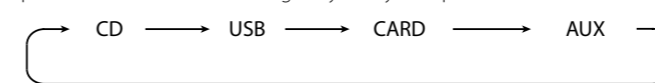
### Delete

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.

# Operation

## 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.

## 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.

## STOP

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

## 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.

## REMAIN (function available only for CD)

allows to change time counter mode. Three options available, remaining time until the end of audio track, remaining time until the end of CD tracks and time from the beginning of track.

## ID3

Allow to show different audio track ID3 information on display.

# Operation

## Rear panel operation

### 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.

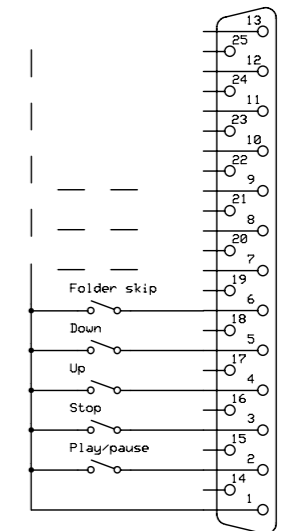
# Settings and functions

## 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 (MP05 rear panel view)

# Settings and functions

## RS 232 commands

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

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
Prog	E	A	H	0d	0a
ID3	E	A	I	0d	0a
Find	E	A	J	0d	0a
Mute	E	A	K	0d	0a
Repeat	E	A	L	0d	0a
Func	E	A	M	0d	0a
Display	E	A	N	0d	0a
A-B	E	A	O	0d	0a
Rec	E	A	P	0d	0a
Del	E	A	Q	0d	0a
Play 1	E	A	U	0d	0a
Remain	E	A	V	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

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

# General Specifications

## MP 05

Available sources	USB flash, SD/MMC card and CD
Maximum compatible USB SD/MMC size	up to 32GB
Input	Stereo RCA and balanced Stereo XLR (REC input)
Output	Stereo RCA and balanced Stereo XLR
Max REC input level	+6 dBu
Output level	0 dBu
THD	0,1 % @ 1 kHz
Frequency response	20 Hz – 20 kHz

Signal to noise ratio	80 dB
Stereo separation	60 dB
Recording bit rate	128 kbps
Supported audio formats	Compressed audio
Power supply	~230 V 50 Hz
Power consumption	50 VA
Weight	3,8 kg
Dimensions	482 mm x 44 mm x 250 mm

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.



