



USB/SD Player



User Manual

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.

**CAUTION**

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Important

Do not install this equipment in a confined space such as a book case or similar unit.

The apparatus should not be dripped or splashed and no objects filled with liquids, such as vases, should not be placed on the apparatus.

This unit should not be used near water (e.g. near bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.) Care should be taken so that objects do not fall and liquids are not spilled into enclosure through openings.

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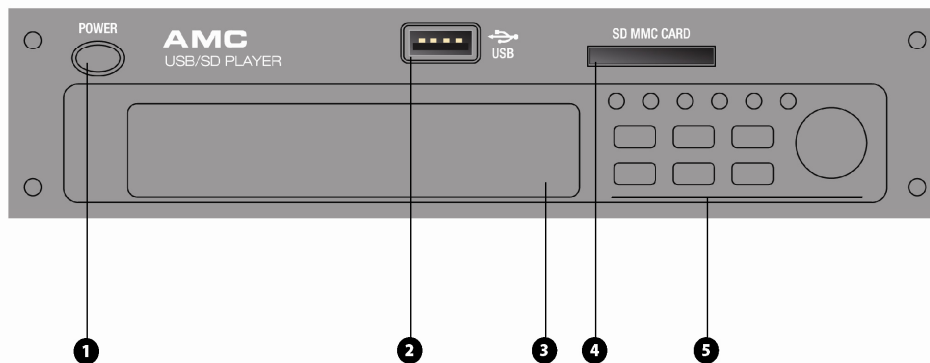
Introductions

This USB/SD Player is fully designed for compressed audio files supporting, including MP3/WMA decoding function and USB/SD/MMC card interface.

Features

- MPEG 1/2/2.5 Layer2/3(MP3), WMA9 L1/L2 decoder with USB host and SD/MMC controller.
- Built in 64K NOR flash memory for program code storage.
- Built in 32 steps electronic volume control.
- Preset EQ (Classic / Pop / Rock) with LOUD function.
- Recognition file and folder up to 2,000 files and 200 folders.
- Available ID3 tag up to 32 characters (File name and title).

Front Panel



1. Power ON/OFF switch
2. USB Slot
3. LCD display
4. SD/MMC Card Slot
5. Function Buttons

Key function description

POWER

The module's power on or off

FUNCTION

Change function mode cyclically: USB->SD/MMC Card.

PLAY / PAUSE

Start playing, and change mode between play and pause.

STOP

Stop playing track in USB or SD mode. Exit mode during program / repeat / random/intro or search.

NEXT/ FF

Skip current file to next file.

BACK/ FB

Skip current file to previous file.

FOLDER UP

Go to next folder (mp3/wma only). In the folder search mode, used to select next folder.

FOLDER DOWN

Go to previous folder (mp3/wma only). In the folder search mode, used to select previous folder.

VOLUME UP

Volume control: the volume is increased.

VOLUME DOWN

Volume control: the volume is decreased.

RANDOM

Set or release RANDOM play mode.

INTRO

Set or release the intro scan mode.

REPEAT

Cyclically select the repeat play mode:
Repeat 1 track → 1 folder → all tracks → Repeat Off.

MUTE

Set or release the mute mode.

EQ

Press key to change EQ mode cyclically.
Flat → Classic → Rock → Pop

DBBS

Set or release the DBBS mode.

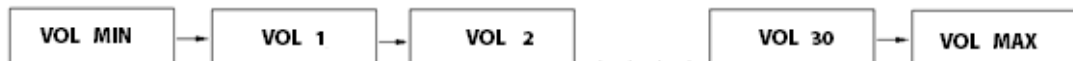
DISPLAY

IN MP3/WMA mode, if key is pressed, display mode is toggled between time display and File information scrolling as follows: File name -> Title -> Time

System operation

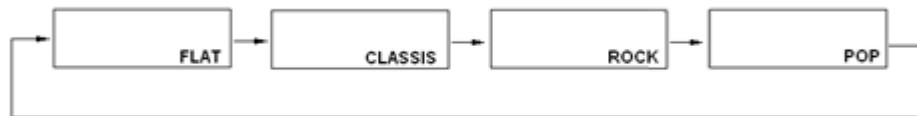
1. Volume control

Turning the volume jog allows adjusting output signal level with 32 steps from MIN to MAX. Volume display mode is continues 2 second after key off.



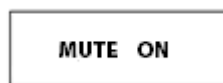
2. EQ control

After EQ key is pressed, LCD panel show current EQ status for 2 second. By pressing EQ button you can change EQ mode cyclically: FLAT->CLASSIS-> ROCK -> POP



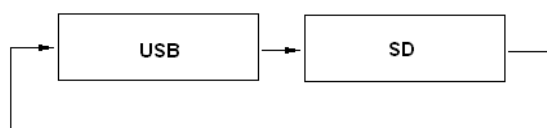
3. MUTE control

The MUTE key allows music sources muting or releasing. LCD shows blinking 'MUTE' on mute status.



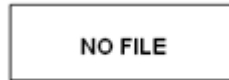
4. Input source (USB/SD Card) selection

You can choice input source between USB and SD Card by FUNCTION key (by pressing volume knob). After selection LCD shows available input for 2 sec.

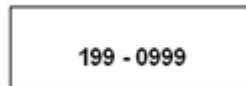


5. Memory checking

If this unit can't find MP3/WMA file from memory 'NO FILE' is displayed on the LCD.

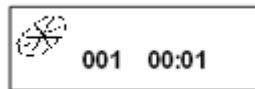


If this unit find out any available file from memory LCD shows total number of folder and total number of files. And then, this unit ready for playing. Example shows that the memory has 199 folders And 999 files.



6. Play, Pause and Stop

Please, press PLAY key to start play MP3/WMA file. LCD show file, folder number and playback time. During playback, press PLAY key to pause. Press STOP key to stop playing MP3/WMA file.



7. Forward

Press NEXT key, then next file will be played.

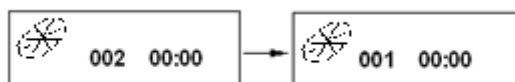


8. Backward

Press BACK key, current file will be played again from beginning.



Press again BACK key within 1 second from beginning, previous file will be played.



9. File name / ID3 display

Press DISPLAY key at the play mode, then file name is scroll displayed. Press again DISPLAY key, go into ID3 tag information mode and scrolled as follow. FILE -> TITLE-> TIME. This ID3 tag information supports up to 32 characters for each display unit.

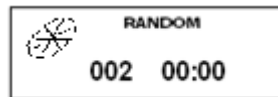


10. Repeat and Random play

Press REPEAT key to select repeat type. The sequence is same as follow. Repeat one file -> repeat folder -> repeat all -> Intro



In the stop or play mode, press RANDOM to activate or deactivate the random mode.



11. Folder up and down

These keys allow you easy to search folder in the USB/SD card memory.

SPECIFICATIONS

GENERAL

1. Signal to Noise Ratio	Less than -70dB
2. Frequency Response	20Hz ~ 20kHz
3. Total Harmonic Distortion(THD)	Less than 0.1%
4. Supply Voltage	DC 12 Volts
5. Maximum Current Consumption	500mA