



AFP-16

**Professional instant messaging audio player
Owner's manual**

English



WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

Power supply/Power cord

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the specified AC power adaptor.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.

Do not open

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified AudioResolution service personnel.

Water warning

- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into any openings.
- Never insert or remove an electric plug with wet hands.

If you notice any abnormality

- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the device, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified AudioResolution service personnel.
- If this device or the AC power adaptor should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified AudioResolution service personnel.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Power supply/Power cord

- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- To avoid generating unwanted noise, make sure there is 50cm or more between the AC power adaptor and the device.
- Do not cover or wrap the AC power adaptor with a cloth or blanket.

Location

- Before moving the device, remove all connected cables.
- When setting up the device, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet.
- Avoid setting all controls to their maximum. Depending on the condition of the connected devices, doing so may cause feedback and may damage the speakers.

- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.

Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

Handling caution

- When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason.

- Do not insert your fingers or hands in any gaps or openings on the device.
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device. If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified AudioResolution service personnel.
- Do not use the device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

XLR-type connectors are wired as follows (IEC60268 standard): pin 1: ground, pin 2: hot (+), and pin 3: cold (-).

AudioResolution cannot be held responsible for damage caused by improper use or modifications to the device, or data that is lost or destroyed.

Always turn the power off when the device is not in use.

The performance of components with moving contacts, such as switches, volume controls, and connectors, deteriorates over time. Consult qualified AudioResolution service personnel about replacing defective components.

Illustrations herein are for explanatory purposes only, and may not match actual appearance during operation.

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Specifications and descriptions in this owner’s manual are for information purposes only. AudioResolution reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your AudioResolution dealer.



Use only the adaptor included with this AudioResolution. Use of a different adaptor may result in equipment damage, overheating, or fire.

Be sure to unplug the adaptor from the outlet when not using AudioResolution, or when there are lightning storms in the area.

To avoid generating unwanted noise, make sure there is 50 cm or more between the power adaptor and AudioResolution.



AFP-16

Dear customer,

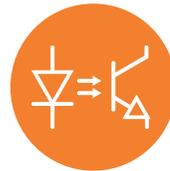
Thank you for purchasing **AudioResolution AFP-16**. Professional SD card audio announcement player with 16 instant play buttons with LED indication of playback. It features GPI (General Purpose Interface) digital signal pin, configured as input or as a output. GPI - Input is for blocking announcement playback with visible signalization of playback blocking, built in speaker for playback monitoring with separate volume control, announcement master volume control. GPI - output is active during playback announcement. The unit is suitable for theaters, sports arenas, shopping malls, etc.

Features:

- 16 playback buttons with LED playback indication
- Transformer balanced audio output
- Isolated GPI inputs and output
- Announcement master volume control
- Announcement playback blocking signalization
- Built in control speaker with volume control



transformer isolated output



optoisolated GPI input



isolated GPI output

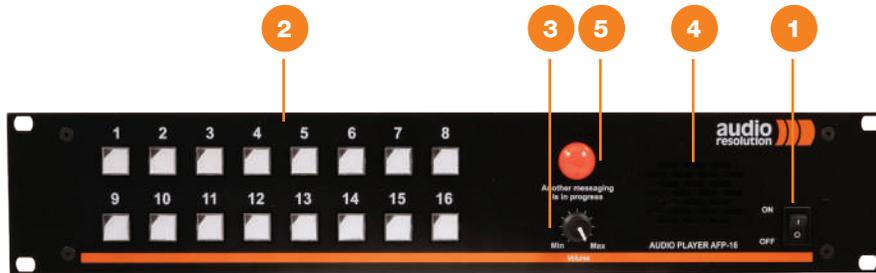


playback monitoring

The package contains

1. AudioResolution unit
2. Power supply
3. Manual
4. Test report

AFP-16 - Front panel (Input section)



1) Power switch

For turning ON or OFF the unit.

2) Playback buttons

16 playback buttons for direct playback of selected message with LED signalization.

3) Monitor Volume

Volume of built in monitoring speaker for listening to the playback.

4) Speaker

5) RED LED

For signaling that another messaging is in progress. It is blinking if one of GP inputs is activated. If activated, messaging from this unit is disabled.

6) Power jack

For connecting Power supply of 12V/1A.

7) Mini USB

For future use.

8) SD Card slot

For SD card with recorded messages. Each button has its own directory for the message. Unit comes with SD card with recorded directory structure. Please do not erase any of the directories or setup files.

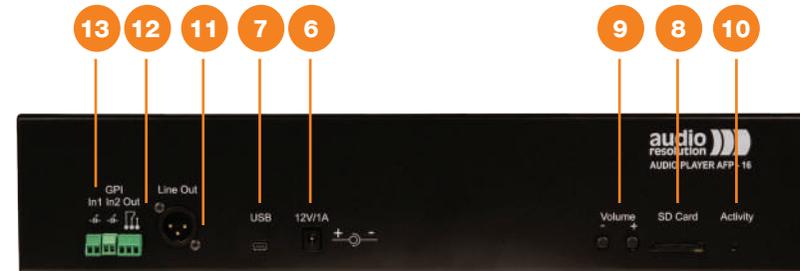
9) Master Volume

For setting up the volume of playback.

10) Activity LED

It blinks when playback is active.

AFP-16 - Rear panel (Output section)



11) Line Out

Playback output on 3-pin XLR connector. It is transformer balanced and isolated.

12) GPI Output

Relay output with normally closed and normally open contacts. When playback is in progress, the normally open contact is closed.

13) GPI Inputs

General purpose inputs with optocoupler, used for signaling that another messaging is in progress. When active, playback from this unit is disabled and front RED LED is blinking.

Operation

- For the right operation it is necessary to have connected the supplied power adaptor (12V /1A), inserted SD card with recorded messages with the right format and unit powered ON.
- While the SD card is formatted and with the correct directory structure and settings file, the operation of unit is very simple. Every button on the front panel has its own directory on the SD card. Save the desired message to this folder and each press of the button will play that message.
- While one message is playing, other buttons are disabled. So only one message can be playing at a time.
- You can't re-play the same message with repeated button press while the message is still playing
- Playback of the message is signaled by LED on the corresponding button
- While the message is playing, you can listen to it on a built-in speaker with volume control
- While playback is active, the GPI Output is active
- If one of the GPI Inputs is active (via external voltage) the playback from unit is disabled and Red LED on the front panel is blinking.
- Length of the message is limited only by the capacity of the SD card.

Supported SD-Cards

- SD/ SDHC cards with FAT16 or FAT32 file system

Directory structure

The right directory structure on SD-card is necessary for the right function. AFP-16 is supplied with an SD-card with created directory structure and setup files. If you need to use SD-card with higher capacity please copy all files from supplied SD-card to your SD-card. If the supplied SD-card is damaged or malfunction please download necessary files from our website and copy them your SD-card. If this device or the AC power adaptor should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified AudioResolution service personnel.

Supported audio formats

- Audio player AFP-16 supports audio files in MP3 or WAV file format.
- For MP3 files are supported with bitrate from 32kb/s to 320kb/s at 44,1kHz sampling frequency, CBR (Constant Bit Rate) and also VBR (Variable Bit Rate) are supported. MP3 files can be MONO or STEREO.
- WAV files are supported with 44,1kHz sampling frequency and 16-bit depth. Broadcast WAV files are not supported.

Audio output

- Audio player AFP-16 has standard 3-pin XLR connector for audio output. Output is transformer balanced and isolated. Ground pin is connected via safety condenser to device ground.
- Maximum output level is + 4dBu.
- XLR connection: 1 – Ground, 2 – Hot, 3 - Cold

GPI Output

General purpose output is on a Relay output. All three contacts are on the connector – common, normally open and normally closed so you can fit it to your needs. GPI Output is active when message is playing. Contact rating: 50V /0,5A

GPI Input

General purpose inputs are with optocoupler and needs external voltage of 12 – 24V. When activated, all buttons on the front panel and messages are disabled. It can be used for blocking message playback when needed. Front big Red LED is blinking when GPI Input is activated. If GPI Input is activated during message playback, this playback is stopped, but corresponding LED on the button will remain blinking for 1 minute after GPI Input is deactivated to signalize that the message was interrupted and can be triggered again.

Specifications

AudioResolution AFP-16	
Playback	
Number of direct play buttons	16
Built in monitor speaker	Yes
Max. output power	8W
Monitor volume control	Yes - potentiometer
Playback blocking signalization	JUMBO RED LED
Playback storage	SD/SDHC card
Supported audio formats	MP3 mono/ stereo, 44,1kHz, 32kbit/s - 320kbit/s WAV mono/ stereo, 16-bit, 44,1kHz
Supported SD card format	FAT16, FAT32
Analog	
Output connector	3-pin XLR
Output type	Analog, transformer balanced and isolated
Max. output level	+4 dBu
GPIO	
Number of GPI inputs	2
GPI input type	optocoupler
GPI Input voltage	12-24V
Number of GPI outputs	1
GPI output type	relay
GPI Out contact rating	50V /0,5A
Power	
Power supply	12V DC /1A
Dimensions and weight	
Dimensions HxWxL	88x480x140 mm
Height in RU	2 RU
Weight	3,1 kg

Block diagram

Professional Instant Messaging Audio Player AFP-16





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