ePLAYER1

AUDIO PLAYER

Local and Streaming Audio Player

USER MANUAL

CONTENTS

1. IMPORTANT WARNING

WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (if applicable): terminals marked with the "  " symbol may be of sufficient magnitude to constitute a risk of electric shock. The external cables connected to the terminals require installation by qualified personnel or the use of pre-assembled cables.

WARNING: to prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: apparatus with Class I construction shall be connected to a mains socket outlet with a protective earthing connection.

2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, stoves or other apparatus that produce heat, including amplifiers.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Mains disconnection: turning off the POWER switch stops all the device functions and indicators from operating, but complete disconnection is achieved by disconnecting the mains power cable from its connector. For this reason, it shall remain readily operable.
15. The unit is connected to a protective earthing plug via the power cord.
16. Part of the product labelling is located at the base of the product.
17. This apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.

WARNING: this product must not be disposed of as unsorted household waste under any circumstances. Go to the nearest electrical and electronic waste recycling facility.

NEEC AUDIO BARCELONA, S.L declines any responsibility for damages caused to people, animals or objects due to failure to comply with the above warnings.

3. IMPORTANT NOTE

Thank you for choosing our ePLAYER1 multimedia player. It is VERY IMPORTANT to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised Technical Services.

The ePLAYER1 comes with a 3-year warranty.

4. INTRODUCTION

The ePLAYER1 is a compact stereo audio player able to play music content from local storage devices (USB/SD), Internet streaming services (online radios, etc.) and digital media exchange (DLNA, AirPlay) with the following main features:

Main features:

- 1 unbalanced stereo audio output, RCA connector and mini-jack (with stereo/mono selection).
- Compatible with mp3, ogg, AAC, WAV, AIFF and FLAC audio formats.
- One USB port and one SD card slot for access to local media content.
- Ethernet interface with RJ45 connector for communication with web setup application as well as Internet streaming reception.
- Wi-Fi interface (client or master mode) for communication with web application configuration as well as Internet streaming reception.
- Fully configurable through web application (point-to-point or through the same LAN)
- 2 GPI (General Purpose Inputs) ports, to trigger the 2 available events.
- Silence detection event.
- Internal clock with up to 240h autonomy (without AC adapter) and automatic synchronization with NTP services.
- Front panel controls and indicators:
    - LCD display.
    - Digital encoder to navigate in the menus and set the parameters.
    - 6 backlit keys with pre-assigned function: ENTER, ESC, STOP, PLAY/PAUSE, NEXT and PREV.

- **Modular firmware**: the ePLAYER1 has a firmware with modular services that allow each user to personalize its operation and adapt it to the size of his project or to his business model. The firmware includes, among other functions and services:
    - Calendar event triggering
    - Synchronization of cloud content (Cloud Disk Sync): compatible with Google Drive service
    - Execution of scripts (user-written instruction files in lua language - www.lua.org).
    - Local file encryption (USB/SD)
    - Activity Log

Note: ePLAYER1 programming is done through the web application embedded in the unit. Refer to the ePLAYER1 web application manual for more information.

5. INSTALLATION AND CONNECTIONS

5.1. Location, set up and ventilation

The ePLAYER1 has been specially designed to be used both as a desktop player and a 19" rackmount unit, occupying half a rack space (with 1UHRMKIT, optional mounting kit for standard rack cabinets).

In professional installations, it should preferably be placed in the same rack as the audio sources.

Since its power consumption is very low, forced ventilation is not necessary. However, avoid exposing the device to extreme temperature and the environment in which it is placed should be as dry and clean (no dust) as possible.

5.2. AC connection and powering on

The ePLAYER1 is powered by alternating current (AC) through its external power supply: 100-240 VAC, 50-60 Hz. This external power supply has several interchangeable connectors: American, European, British and Chinese.

The operating environment should be dry and be totally free of dust. Do not expose the unit to dripping or splashing. Do not place incandescent objects like candles on top of it.

If the unit requires any intervention and/or connection/disconnection, it must be powered off first. There are no user-serviceable parts within the unit. To avoid buzzing, do not allow the power cable to intertwine with audio shielded cables.

5.3. Audio output connections

The ePLAYER1 has 1 unbalanced stereo output on its rear panel.
The signal output connectors are 2 x RCA and 1 x stereo mini-jack.

5.4. Ethernet port for configuration and Internet connection

An RJ45 connector allows the unit to be connected to an Ethernet network or even directly (point-to-point) to a computer.

This connection provides access to Internet contents, and to the configuration of the unit using a web browser on the computer, which points to the IP address of the ePLAYER1, showing the web application embedded in the unit. Refer to the ePLAYER1 web application manual for more information.

5.5. Wi-Fi interface for configuration and Internet connection

A Wi-Fi interface allows the unit to be connected to a Wi-Fi network or even directly (point-to-point) to a computer by Wi-Fi.

This connection provides access to Internet contents, and to the configuration of the unit using a web browser on the computer, which points to the IP address of the ePLAYER1, showing the web application embedded in the unit. Refer to the ePLAYER1 web application manual for more information.

5.6. GPI remote control ports

The ePLAYER1 has 2 GPI control inputs on its rear panel. These inputs can be connected to an external physical device (e.g. a contact closure) and associated with an ePLAYER1 function:

- Load and play previously configured audio content
- Preset recall
- Audio playback with priority over the music program
- Transport bar control (PLAY/PAUSE, STOP, etc.)
- Internal triggering, to interact with other player services (scripts for example)

GPI connectors use 3-position screw terminal blocks (Euroblocks). The wiring is as follows:

GPI terminal > – 1, 2 terminals

Ground > ⊥ terminal

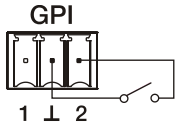


Figure 1: Connection example of GPI 2

Connecting cables can be up to 500 meters long with a minimum section of 0,5 mm^2.

6. FRONT PANEL

The ePLAYER1 front panel provides the following elements:

- **SD/SDHC slot**: for local audio content playback. Up to 2TB. FAT16/32 format.
- **USB 2.0 port**: for local audio content playback. Up to 2TB. FAT16/32 and NTFS format.
- **SP LED**: *signal presence* indicator.
- **NET LED**: network (Internet) data reception indicator.
- **LCD display**: displays menus, player information, etc.
- **CONTROL & SELECT digital encoder**: allows menu navigation, parameter selection, etc.
- **ESC key**: allows you to exit the menu (return to the main screen). It also provides access to the lock menu.
- **MENU key**: provides access to the main menu and device configuration.
- **PREV (⏮) key**: skips to the previous song in the player playlist. Within the main or configuration menu, allows you to navigate through the different (previous) settings.
- **STOP key (■)**: stops the current playback.
- **PLAY/PAUSE (⏵⏸) key**: starts/pauses playback of the loaded item.
- **NEXT key (⏭)**: skips to the next song in the player playlist. Within the main or configuration menu, allows you to navigate through the different (next) settings.

7. STARTUP

The ePLAYER1 has been designed to be used as a local media player, without prior configuration. However, Ecler recommends configuring ePLAYER1 with your web application to enjoy its full functionality. Please refer to the ePLAYER1 web application manual to know all the functionality it offers.

Plug the power cord into the back of the device to turn it on. A message will be displayed on the screen indicating that ePLAYER1 is starting.

Note: please check the firmware version of your device. It should be updated to the latest version to ensure that all features described in this manual are available. Visit www.ecler.com to download it.

7.1. Main menu

The ePLAYER1 main menu allows you to make playback adjustments, such as selecting the audio source, loading presets, etc.

The main menu is accessed by pressing the MENU key. Navigation through the various menu items is performed using the NEXT (⏭) and PREV (⏮) keys, to respectively move to the next or previous one. Once you have chosen the item to be set, rotating the CONTROL & SELECT encoder allows you to select the different parameters. The selected parameter will start flashing until its selection is confirmed by pressing the CONTROL & SELECT encoder. If you change items (with the NEXT (⏭) and PREV (⏮) keys) or exit the menu by pressing ESC without confirming, the changes will not be applied, except for the volume whose changes are executed in real time.

To exit the main menu, press the ESC key.

The main menu consists of the following items:

- **SOURCE**: audio source. To select USB media (USB), SD/SDHC card (MMC), DLNA device (DLNA), AirPlay device (AIRPLAY) or any of the items previously configured as the source of a preset. Refer to the ePLAYER1 web application manual to learn how to create audio sources. If the selected device is not found, cannot be read or if there is no connection available (DLNA/AirPlay), the display indicates that the device is not available (UNAVAILABLE).
- **PRESET**: preset (configuration memory) recall. Allows you to select from 20 user presets. Refer to the ePLAYER1 web application manual for information on how to configure presets.

- **VOLUME**: volume control. Allows real-time adjustment of the player volume. 0dB corresponds to the maximum value of the player. Press the CONTROL & SELECT encoder to mute the player output (MUTE). Press it again to deactivate MUTE.
- **REPEAT**: track repeat modes within a playlist.
    - PLAY ALL: plays the playlist only once.
    - PLAY ONE: plays the track only once.
    - REPEAT ALL: when the playlist ends, the same list starts playing again.
    - REPEAT ONE: when the track ends, the same track starts playing again.
- **PLAY MODE**: playback mode.
    - SEQUENTIAL: sequential playback (same alphanumeric order as the storage device).
    - RANDOM: random playback.
- **FADE**: transition mode between audio tracks inside the playlist.
    - OFF: transition without fades. Once a track ends, the next track in the playlist starts playing.
    - XFADE: crossfade. the transition between tracks progressively reduces the volume level of the ending track as the next track volume level gradually increases, merging both tracks for a short time until the starting track reaches its nominal volume level.
    - FADE: the ending track fades out. After this, the next track fades in until it reaches its nominal volume level. There's no crossfade between tracks.
- **BOOT MODE**: reset mode. Allows you to adjust the startup parameters of the player.
    - KEEP STATUS: at start-up, the last settings made just before shutdown are retained: player status (PLAY/STOP), volume, repeat mode, *fade*, play mode and playlist.
    - LOAD PRESET1: at start-up, preset 1 is always loaded. The settings of this preset can be configured using the web application of the device.

7.2. Local media playback

7.2.1. Playing files stored on USB storage devices

Insert USB media containing audio files in the USB port. Then press the MENU key to access the main menu. In the SOURCE submenu, select the USB source using the CONTROL & SELECT digital encoder to navigate through the different parameters and press the encoder to confirm (SELECT). The selected parameter will flash until your selection is confirmed. Press ▶ in the transport bar to start playing content.

If no media is found or the media cannot be read, the display will show the message: USB UNAVAILABLE (flashing). If this occurs, please check that the media is properly inserted and that it meets the specifications. If there are no files with one of the accepted audio formats, the message "NOT FOUND" will be displayed. If this happens, please check that the files meet the specifications.

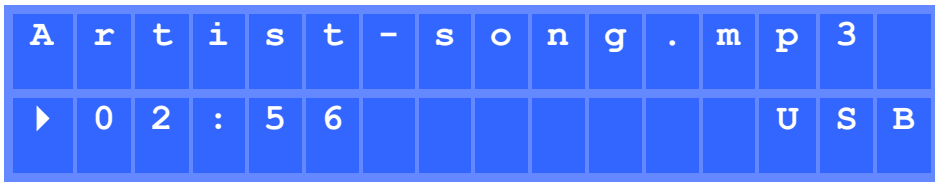


Figure 2: ePLAYER1 playing a file from USB media

The CONTROL & SELECT digital encoder allows you to access additional information about the playback track and the playlist. Press it once to access playback track information, displaying: track name, audio format (mp3, wav, etc.), bitrate (kbps), track duration (mm:ss), and sample rate (kHz).

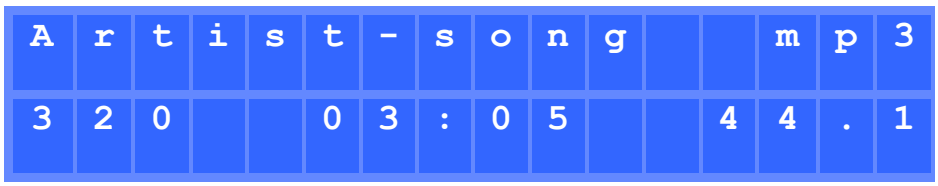


Figure 3: playback track information

Press the CONTROL & SELECT encoder a second time to access playlist information. The display shows the position of the playing track and the total number of tracks in the playlist.

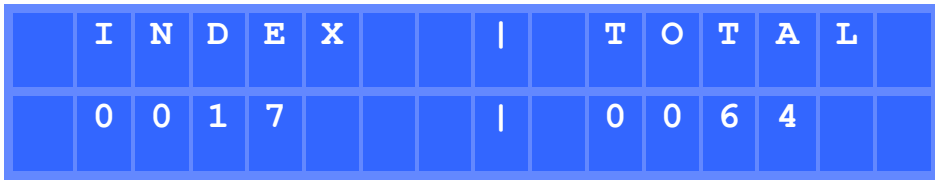


Figure 4: playlist information

7.2.2. Playing files stored on SD/SDHC memory cards

Insert a SD/SDHC card containing audio files in the slot. Then press the MENU key to access the main menu. In the SOURCE submenu, select the MMC source using the CONTROL & SELECT digital encoder to navigate through the different parameters and press the encoder to confirm (SELECT). The selected parameter will flash until your selection is confirmed. Press ▶ in the transport bar to start playing content.

If no media is found or the media cannot be read, the display will show the message: MMC UNAVAILABLE (flashing). If this occurs, please check that the media is properly inserted and that it meets the specifications.

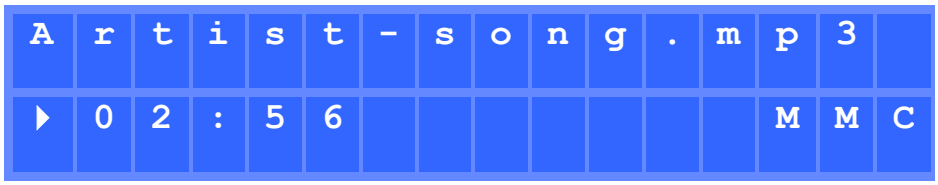


Figure 5: ePLAYER1 playing a file from SD/SDHC card

7.3. Audio streaming playback

The ePLAYER1 allows audio streaming playback, from its Ethernet or Wi-Fi interface.

It supports DLNA and AirPlay, so you can play files sent from your smartphone, tablet or PC via a wireless connection. It also plays Internet streaming services such as online radios or files from a server. A stable Internet connection is required.

7.3.1. Audio streaming playback via AirPlay

Point-to-point audio content can be sent via AirPlay by connecting your device to the ePLAYER1 Wi-Fi interface or via a home Wi-Fi network. AirPlay also works with a wired Ethernet connection. Refer to the web application manual for information on the different ways to connect to a LAN.

First, make sure that your device and ePLAYER1 are on the same local network or are point-to-point connected. Then press the MENU key to access the main menu. In the SOURCE submenu, select the AIRPLAY source using the CONTROL & SELECT digital encoder to navigate through the different parameters and press the encoder to confirm (SELECT). The selected parameter will flash until your selection is confirmed. The AIRPLAY MODE message flashes on the display. The ePLAYER1 is now ready to receive AirPlay streams.

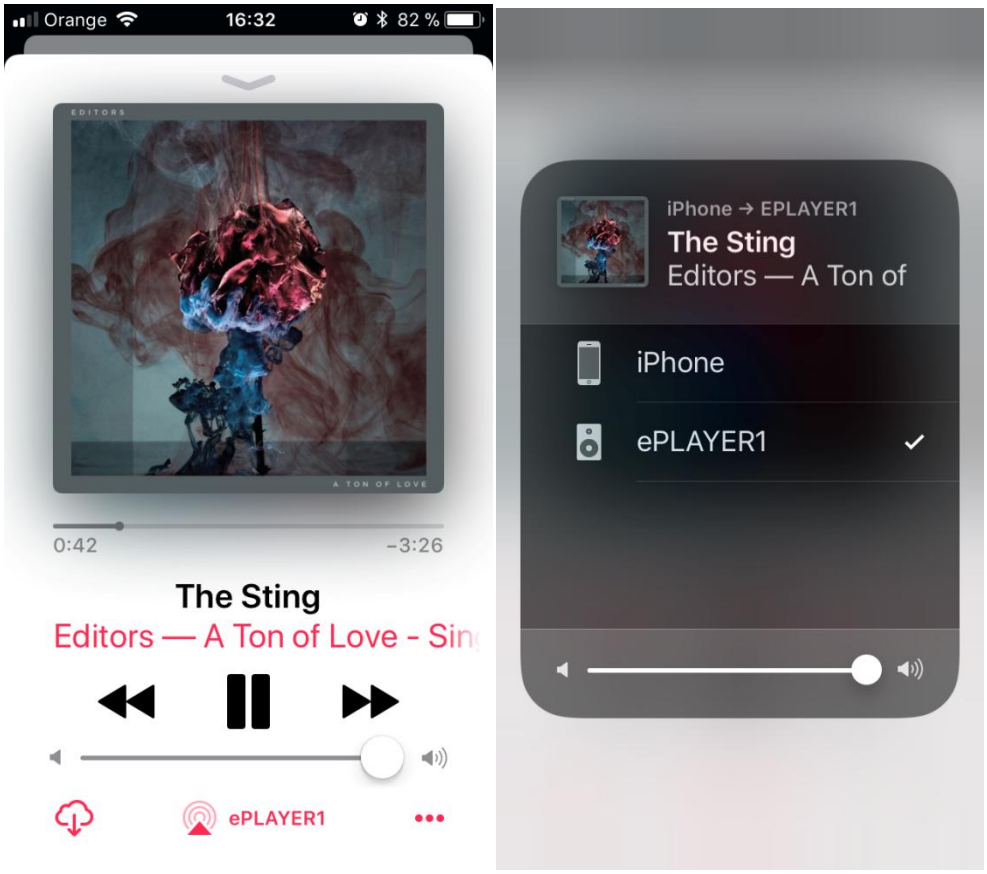


Figure 6: AirPlay streaming from iOS© device

7.3.2. Audio streaming playback via DLNA

Point-to-point audio content can be sent via DLNA, connecting your device to the ePLAYER1 Wi-Fi interface or via a home Wi-Fi network. **DLNA is not available via wired Ethernet connection.** Refer to the web application manual for information on the different ways to connect to a LAN.

First, make sure that your device and ePLAYER1 are on the same local network. Then press the MENU key to access the main menu. In the SOURCE submenu, select the DLNA source using the CONTROL & SELECT digital encoder to navigate through the different parameters and press the encoder to confirm (SELECT). The selected parameter will flash until your selection is confirmed. The DLNA MODE message flashes on the display. The ePLAYER1 is now ready to receive DLNA streams.

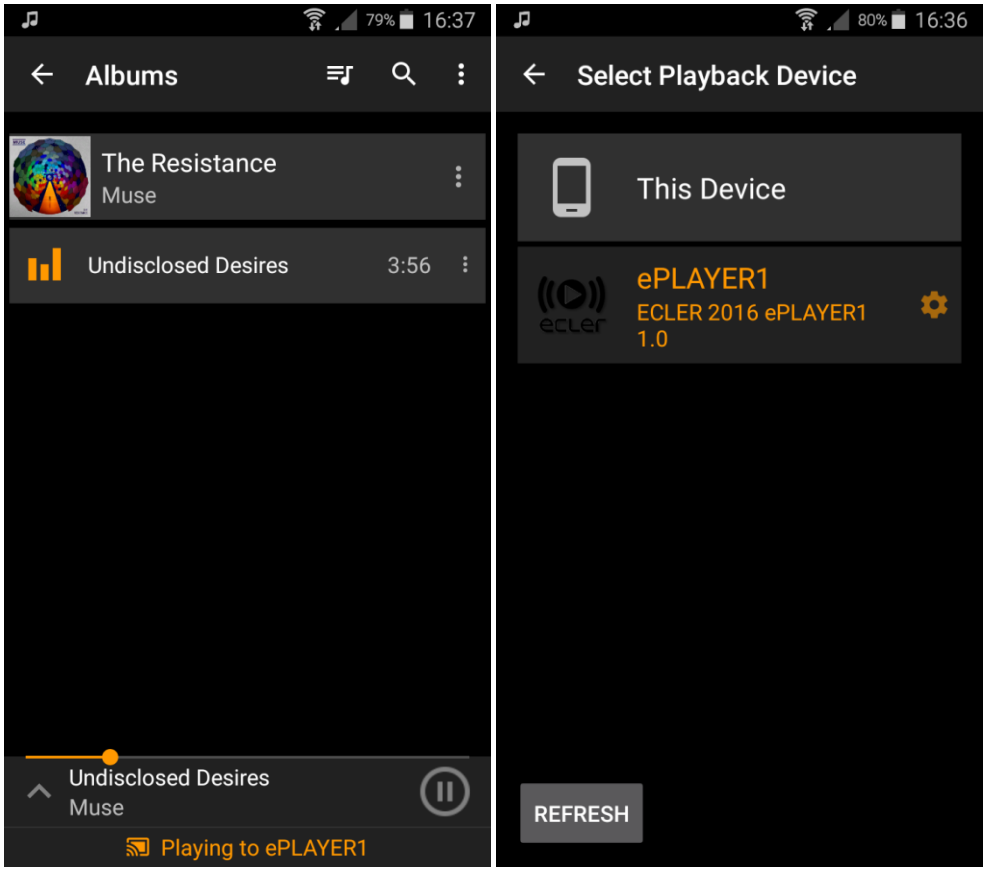


Figure 7: Android© device connected to an ePLAYER1 for streaming via DLNA

7.3.3. Listening to an Internet radio station

Connect your ePLAYER1 to the Internet. You can use the Ethernet port or the Wi-Fi interface**.** Refer to the web application manual for information about connecting to the Internet.

From firmware version v3.01r00, ePLAYER1 includes an Internet radio service that allows you to discover, listen and store in a very simple way different audio content such as music, news, sports, podcasts and Internet radios, among more than 120,000 radio stations worldwide.

NOTE: in version v3.01r00, this service is only accessible from the front panel of the player.

Press the MENU key to access the main menu. In the SOURCE submenu, select the INTERNET RADIO source using the CONTROL & SELECT digital encoder to navigate through the different parameters and press the encoder to confirm (SELECT).

NOTE: INTERNET RADIO is at the top of the list, so turn the encoder counter-clockwise.

Turn the rotary encoder to navigate through the different menus, press the encoder to select a menu, and press the ESC key to return to the previous menu.

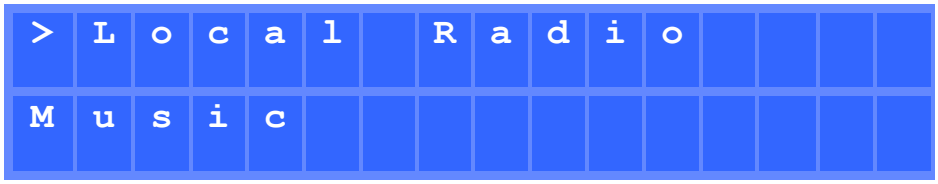


Figure 8: Internet radio service navigation menu

If you have already selected an Internet radio, press the MENU button again to recall the last selection. Press the MENU key again to return to the beginning.

Press and hold the rotary encoder on an Internet radio for 2 seconds to preset this radio station. Turn the encoder to navigate between the different presets available and press it to store the radio station.

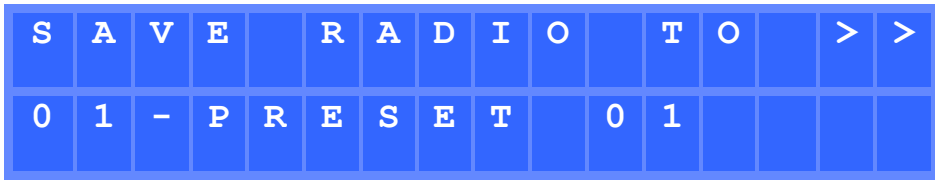


Figure 9: saving a preset

If the preset is empty, you must confirm by pressing the encoder. If you do not want to store in the selected preset, you can return to the previous menu and select another preset by pressing the ESC key.

If you want to overwrite a preset, you must confirm by pressing the encoder. If you do not want to store in the selected preset, you can return to the previous menu and select another preset by pressing the ESC key.

You can store an Internet radio in a preset without listening it.

Once an Internet radio has been stored in a preset, it is available in the SOURCE submenu as an audio source, at the position corresponding to the preset number.

7.3.4. Audio streaming playback over the Internet

Connect your ePLAYER1 to the Internet. You can use the Ethernet port or the Wi-Fi interface. Refer to the web application manual for information about connecting to the Internet.

Press the MENU key to access the main menu. In the SOURCE submenu, select your playlist as the source, whether it is a preset Internet radio or a previously created playlist pointing to streaming content (see the web application manual to learn how to set up a playlist), by turning the CONTROL & SELECT digital encoder to navigate through the different parameters and pressing the encoder to confirm (SELECT). The selected parameter will flash until your selection is confirmed. Press ▶ in the transport bar to start playing content.

If playlist playback does not start, please check your Internet connection and/or the network settings of your device.

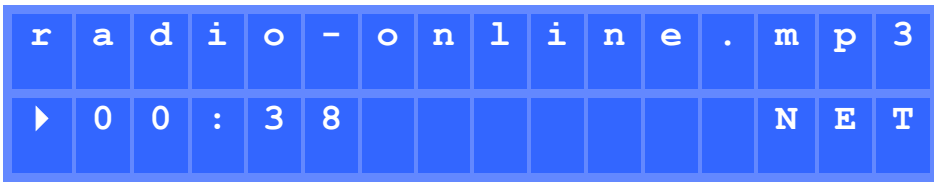


Figure 10: ePLAYER1 playing an Internet stream

7.4. Configuration Menu

The configuration menu allows you to set network parameters, date and time, the audio output mode (mono/stereo) and view relevant device information.

The configuration menu is accessed by holding down the MENU key for a few seconds. Menu navigation and parameter setting are the same as in the main menu (see chapter 7.2).

The configuration menu consists of the following items:

- **CHANNELS**: to set the output to stereo or mono.
- **WIFI**: to configure the Wi-Fi interface.
    - **OFF**: disables the Wi-Fi interface.
    - **ON**: enables the Wi-Fi interface. Press the CONTROL & SELECT encoder to display the IP address assigned to the device. In MASTER mode this IP will be 192.168.189.1 (refer to the web application manual for details).
    - **RESTORE DEFAULTS**: resets the default Wi-Fi configuration parameters.
- **ETHERNET**: to set the Ethernet interface to DHCP or static (dynamic or static addressing). Turn the CONTROL & SELECT encoder to select one of the two options:
    - **DHCP**: press the CONTROL & SELECT encoder to display the IP address assigned to the device (DHCP).
    - **STATIC**: if you have selected static addressing, you can edit the network parameters from the front panel by pressing the CONTROL & SELECT encoder to access the IP submenu. If you want to change the IP address, turn the encoder. To select the next parameter (byte), press the NEXT key.
    - Each time you press the encoder, you can navigate through the different network parameters: IP, MASK, GATEWAY, DNS1, DNS2 and APPLY+REBOOT. The latter option is available only if you have made changes to any of the network parameters.
    - To **confirm changes** to network parameters, select YES in the APPLY+REBOOT submenu. The device will restart with the new network settings.
- **DATE**: displays date in YEAR/MONTH/DAY format
- **TIME**: displays time in HH:MM format
- **GALLERY**: under construction.
- **VERSION**: displays the current firmware version of the device.

7.5. Lock Menu

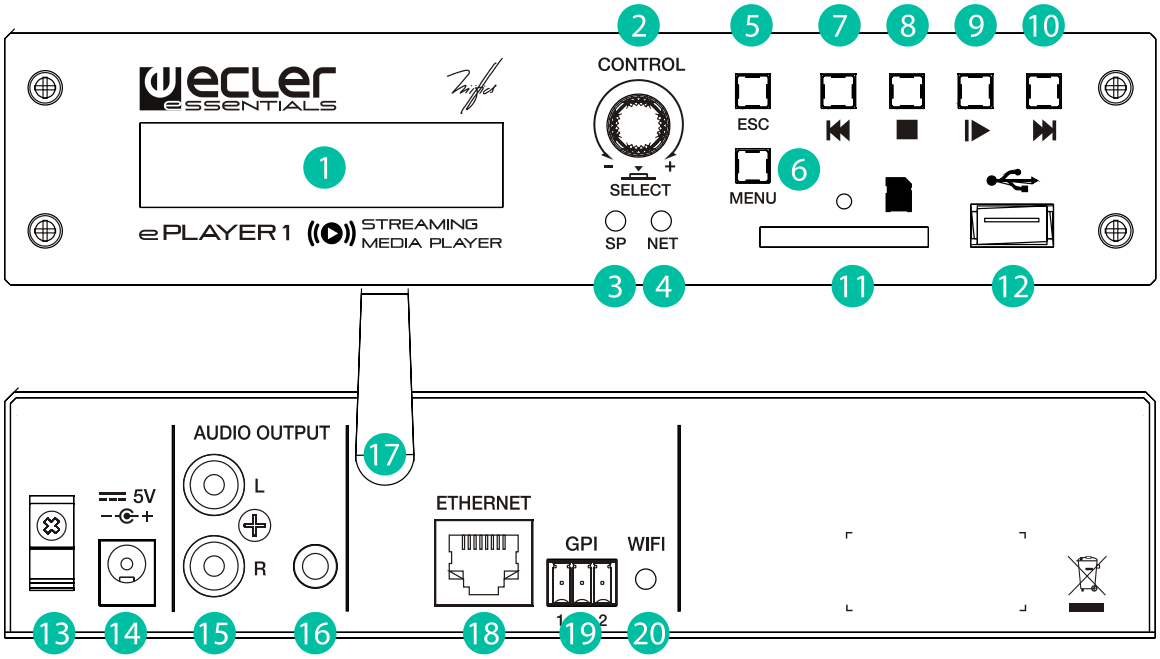
To access the lock menu, press and hold the ESC key for approximately 10 seconds. In the LOCK MODE menu, the following options appear (same navigation as in all other menus):

- **UNLOCK ALL**: unlocks all front panel keys.
- **UNLOCK USER**: locks access to the device configuration menu (administrator functions) but allows you to use all other features. A submenu appears in which you must enter the password that protects access to the device's configuration functions. Turn the CONTROL & SELECT digital encoder to select the desired digit. Press the NEXT key to advance to the next digit. To confirm the password, press the CONTROL & SELECT digital encoder.
- The next time you try to access the lock menu, you will be prompted for the password to unlock the administrator functions. After a while without pressing any key, and as a precaution, the configuration menu will be locked again. It will be necessary to return to the lock menu and select UNLOCK ALL to prevent the unit from locking the configuration menu after a few seconds of user inactivity.
- **LOCK ALL**: locks all front panel keys. To unlock them, proceed in the same way as to unlock the configuration menu (UNLOCK ALL).

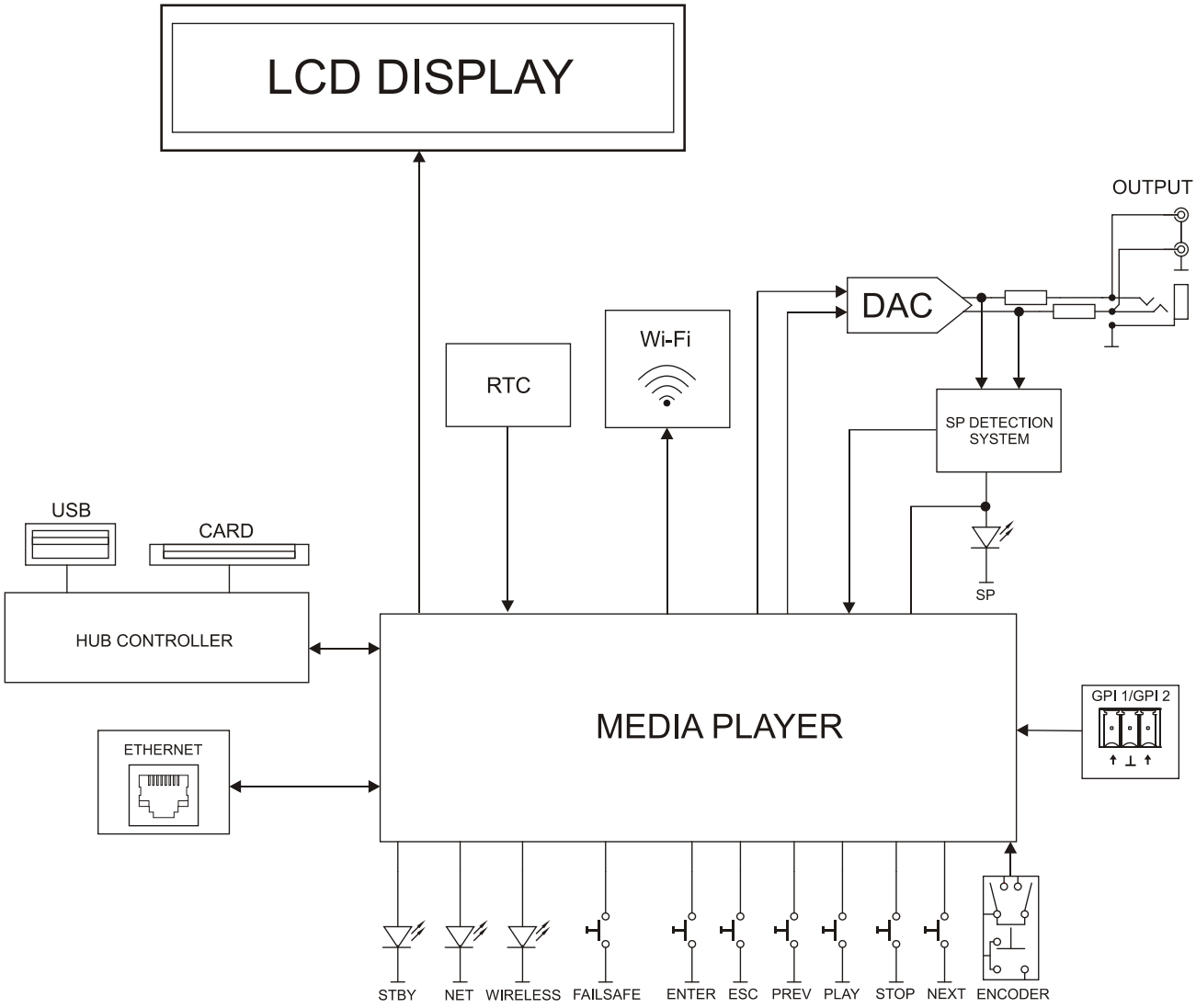
8. PART NAMES

1. LCD display
2. Digital encoder CONTROL & SELECT
3. SP LED (signal presence indicator)
4. NET LED (network traffic indicator)
5. ESC key
6. MENU key
7. PREV key
8. STOP key
9. PLAY/PAUSE key
10. NEXT key
11. SD/SDHC Slot
12. USB port
13. PSU cable security clamp
14. External power supply connector
15. Stereo output (2 x RCA)
16. Stereo output (mini-jack)
17. Wi-Fi antenna
18. RJ45 connector
19. GPI port
20. Wi-Fi indicator light

9. HARDWARE FEATURES



10. BLOCK DIAGRAM



11. TECHNICAL SPECIFICATIONS

ETHERNET	
Connector	RJ45
Speed	10/100Mbps
Wi-Fi Frequency	2.4GHz Wi-Fi, 802.11 b/g/n
Distance	Indoor: 60m (max); Outdoor: 150m
AUDIO OUTPUT	
Nominal output level	0dB
Max Output Level/Minimum Load	6dBV / 5kΩ
Frequency Response	5Hz - 24kHz (-3dB)
Connector	jack 3.5mm, RCA stereo
Output impedance	460Ω
MEDIA PLAYER	
Audio DAC	24bit / 48kHz
Output Noise Floor (FFT)	-100dB (from 20Hz to 20kHz)
THD + Noise	< 0.008% (1kHz, 1Vrms)
Compatible file formats	mp3, ogg, WAV, FLAC, AIFF
Compatible playlist formats	m3u, m3u8, pls
SOURCES	
USB, SD/SDHC content	
Internet Radio Streams	
AirPlay, DLNA	
GPI	
Number	2 ports
Type	Dry contact to ground
Output socket	3 pin Terminal block
RTC	
Time and date retention (battery)	Approx. 240 hours
RTC accuracy	±1 minute / month
LCD DISPLAY	Alphanumeric 2x16
LED indicators	NETWORK, SP, WIFI
Direct buttons	ENCODER, ENTER, ESC, PREV, NEXT, PLAY, STOP
DC supply	5V DC
Main voltage (using supplied DC adapter)	90-264VAC 50-60Hz
Power consumption	7.5VA
Dimensions WxHxD	200x44x120mm
Weight	800g
USB and SD card interfaces	
USB host interface	USB 2.0 High Speed (480 Mbps) Supports mass storage class devices (externally powered above 500mA current draw) Up to 2TB
Micro-SD card interface	Supports SD ver1.0, SDXC Up to 2TB
FAT and files analysis	Supports FAT16, FAT 32, VFAT and NTFS Multi-partition up to 1 65354 playable folders 65354 playable folders within each folder 65354 playable files within each folder
Folder hierarchy	Up to 8 including the root directory
Playable file formats	mp3, ogg, WAV, AAC, FLAC, AIFF
Sorting in alphabetical order	UNICODE Up to 100 folders Up to 100 files by folder (Folders/files over 100 sorted in the FAT order)
AC adapter	
Wi-Fi antenna	

Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 information@ecler.es www.ecler.com