

User
Manual

LIVE RADIO

Internet Radio And FM Radio Player



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). Care should be taken that objects do not fall into liquids and liquids would not be spilled on the device.
- 3 Use this device when you are sure that it has a stable base and it is fixed securely.
- 4 This product, in combination with 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 otorhinolaryngologist.
- 5 The product should be located away from heat sources such as radiators, heat vents, or other devices that produce heat.
- 6 Note for power connections: for pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- 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 Power disconnection: when the power cord connected to the power grid is connected to the machine, the standby power is turned ON. When the power switch is turned ON, the main power is turned ON. The only operation to disconnect the power supply from the grid, unplug the power cord.
- 9 Protective Grounding - An apparatus with class I construction shall be connected to a power outlet socket with a protective grounding connection.
Protective Earthing - An apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.
- 10 The lightning flash with an arrowhead symbol, with an equilateral triangle, is intended to alert the user to the presence of uninsulated dangerous voltage¹ within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. 
- 11 The exclamation mark 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. 
- 12 There are some areas with high voltage inside, to reduce the risk of electric shock do not remove cover of the device or power supply. The cover should be removed by the qualified personnel only.
- 13 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.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	<p>To reduce the risk of electric shock, do not remove screws. No user-serviceable parts inside. Refer servicing to qualified service personnel. 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.</p>
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Table of contents

Before you start

Introduction.....	2
Features.....	2
Before you start using LIVE RADIO.....	2

Operation

Front panel.....	4
Rear panel.....	4
Remote control.....	5
Front panel functions.....	6
Rear panel functions.....	6
Remote control functions.....	7
Display functions.....	8

First time setup.....	8
Main menu.....	9
System settings.....	12

Specifications

General specifications.....	14
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Before you start

LIVE RADIO is an internet radio streaming device with media player and FM tuner. It features a catalogue of available internet radio stations, FM radio with RDS, WAV, FLAC and compressed files playback. Wi-Fi and ethernet connections, remote control via iOS and Android app Undok. Comes with IR remote control.

FEATURES

- Media player with USB reader
- Compressed, WAV and FLAC files playback
- RDS and ID3 support
- S/PDIF optical and stereo RCA outputs
- Wi-Fi and ethernet connections
- IR remote control.
- Control app for iOS or Android smart devices.

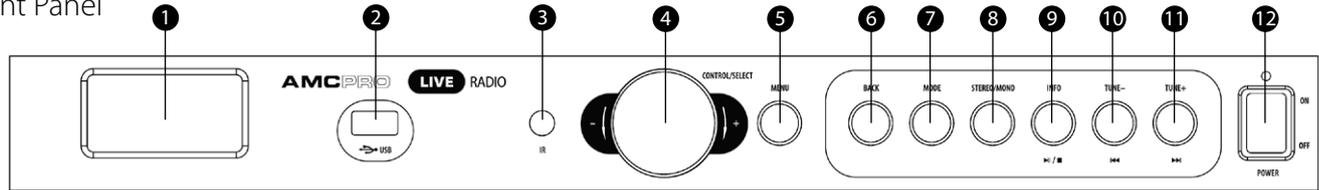
Before you start

Before you start using LIVE RADIO player you need the following:

- A broadband Internet connection
- A wireless access point (Wi-Fi) connected to your broadband Internet, preferably via a router. If you don't have wireless network, you can use network cable connected to your broadband internet. You can select to use wireless or LAN wire in the setting menu.
- WEP, WPA or WPA2 code. If your wireless network is configured to use Wired Equivalent Privacy (WEP) or Wi-Fi Protected Access (WPA) data encryption then you need to know the WEP, WPA or WPA2 code in order to get the Internet radio communication with the network. If your network is unsecured, the LIVE RADIO can connect to the Internet without a network key.
- Before you continue, make sure that your wireless access point is powered up and connected to your broadband Internet. To get this part of the system working you must read the instructions supplied with the wireless access point.

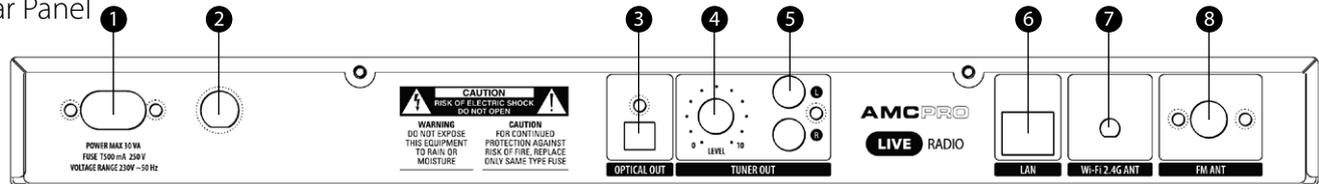
Operation

Front Panel



1. LCD display | 2. USB slot | 3. IR detector | 4. Navigation knob | 5. Menu button | 6. Back button | 7. Mode button | 8. Stereo/mono button
 9. Info (play/pause) button | 10. Tune - (backward track) button | 11. Tune + (forward track) button | 12. Power switch and stand-by indicator

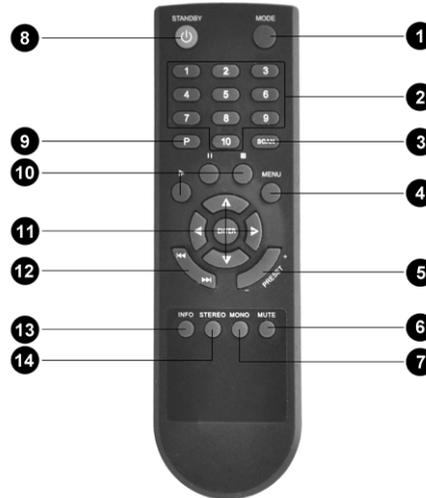
Rear Panel



1. Power connector | 2. AC fuse | 3. Optical output (S/PDIF) | 4. Output level control | 5. Stereo RCA outputs
 6. LAN cable socket (RJ45) | 7. Wi-Fi antenna socket | 8. FM antenna socket

Operation

Remote Control



1. MODE | 2. Numeric keyboard | 3. Scan | 4. Menu | 5. Preset | 6. Mute | 7. Mono | 8. Stand by
9. Preset menu | 10. Play / pause and stop | 11. Navigation | 12. Forward / backward | 13. Info | 14. Stereo

Operation

Front panel functions

LCD DISPLAY

Displays menu, status of the device and main information about the playing radio station or track.

USB SLOT

For USB flash drive.

NAVIGATION KNOB

Turn this knob to scroll through the menu and push it to enter the submenu.

MENU

Press this button to go to the menu of the playing music source. The menu screen depends on which music source FM radio, internet radio or music player is selected.

BACK

Goes back to the previous menu page.

MODE

Select one of three music source: FM radio, internet radio or music player.

STEREO/MONO

Set playing mode (stereo or mono) for FM radio only.

INFO (play/pause)

After pressing info button in the FM radio or internet radio LCD screen shows information about the currently playing station and additional information about the artist and the title of the track. Press INFO button multiple times to display different information.

In the music player mode INFO button acts as play/pause button.

TUNE - (backward)

This button is active in media player and FM radio modes only. Press this button to select the next track or forward FM radio station scanning.

TUNE + (forward)

This button is active in media player and FM radio modes only. Press this button to select the previous track or backward FM radio station scanning.

STANDBY INDICATOR

This LED lights up when LIVE RADIO is in standby mode.

POWER SWITCH

Switch LIVE RADIO on / off.

Operation

Rear panel functions

POWER CONNECTOR

Power connector is designed for main power connecting to the LIVE RADIO.

FUSE HOLDER

Fuse holder for T500mA, 250V fuse.

OPTICAL OUTPUT

S/PDIF optical output for the fiber optic cable with TOSLINK connectors.

TUNER OUTPUT

Line level tuner output, stereo RCA connector.

OUTPUT LEVEL CONTROL

This knob is designed for the radio audio output's level adjusting.

LAN CABLE SOCKET (RJ45)

For wired network operation use this RJ45 socket.

Wi-Fi ANTENNA SOCKET

For Wi-Fi network operation connect the Wi-Fi antenna to this socket.

FM ANTENNA SOCKET

For FM radio station's receiving connect FM antenna to this socket.

Remote control functions

NUMBER KEYBOARD

Allows selecting radio station from preset menu.

To save radio station in the preset press and hold one of the number key.

SCAN

Press to activate auto scan function. Function stops, once the station is found.

PRESET

To jump preset forward or backward, use this button at the moment when station is selected from preset and preset logo is displayed.

MUTE

Mute output volume.

NAVIGATION BUTTONS

Up and down buttons for menu scrolling, left and right for the entering submenu and back to previously menu page.

PRESET MENU

View all presets saved in the memory.

STAND BY

Enter device stand by mode (indicated with LED in the front panel).

Operation

Display functions

 Connection type: WLAN with signal strength scale.

 Connection type: Ethernet.

 Station selected from preset.

 UPNP mode.

 Repeat all.

 Shuffle.

 USB mode

 Mute

First time setup

When device is switched on for the first time, you need to connect it to the network. The best way to do this is to activate "Setup wizard" in the system settings menu.

If needed, change device language before starting setup wizard:

Main menu > System settings > Language

If device is switched on for the first time and setup wizard doesn't start automatically, you can start it from menumenu:

Main menu > System settings > Setup wizard

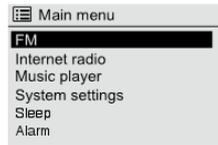


Operation

Main menu

FM RADIO

Use the navigation knob to scroll through the menu and confirm your selection with the push button

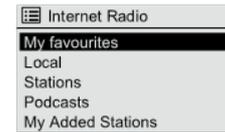


From the main menu or by using “mode” button in the front panel you can activate FM radio. Press “tune-” or “tune+” buttons to activate auto scan or turn the navigation knob to search station manually. The auto scan function stops, once a station is found.

By pressing “Info” key in the front panel different information about radio station can be displayed. This information depends from radio stations RDS feed, different stations provide different or no information.

Tap access and use additional settings in the radio. Press the „MENU” button in FM radio mode.

INTERNET RADIO



When you access the Internet radio menu, the LIVE RADIO automatically retrieves the list of Internet radio stations. The service ensures that you always have a fresh, reliable selection of stations. Use the usual controls to navigate through the pre-sorted station list. Press one of the station keys for approx. 2 seconds during the playback to store currently playing station and press the same number button to bring it up again later as desired.

- My Favourites

LIVE RADIO has its own favourite list, which you will find on the Internet Radio menu. To create favourites, press and hold the navigation knob or the “Enter” button on the remote control for a few seconds. When a favourite is stored, the LIVE RADIO will display the message “Favourite added”.

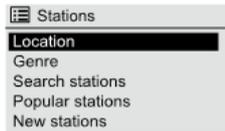
Please note that contents of UPnP servers cannot be saved as a favourites.

Operation

- Local

This is a list of the radio stations located in your country. It allows easily finding your national radio stations.

- Stations



All internet radio stations in this menu are sorted by location and genre. Also there is a possibility to find popular or totally new radio stations and find a station by adding the stations name directly to search window.

Location - enables you to choose the radio stations sorted by country.

Genre - enables you to choose radio stations according to their content, for example Classic Rock, Sport, News, etc.

Station's selecting by location: turn the rotating knob in "Location" menu until the display shows the region you want to select. Press the navigations knob to enter in to your selected countries sub menu. Turn the knob until the display shows the station you want. One more time press navigation knob and wait until the radio connects to that station.

Station's selecting by genre: turn the navigations knob in "Genre" menu until the display shows the genre you want to listening. Press the navigations knob to enter in to your selected genre sub menu. Turn the knob until the display shows the region you want to select. Turn the knob until the display shows the station you want. One more time press navigations knob and wait until the radio connects to that station. If you want return to menu when Internet radio station's playing, at any time by press the "back" button.

Search stations - enter radio station name manually using the navigation knob and search.

Popular stations - the most popular stations in one place. Use the navigation's knob to select the radio station.

New stations - list of new stations added every day.

- Podcast

With your LIVE RADIO you have easy, free access to the podcast collection.

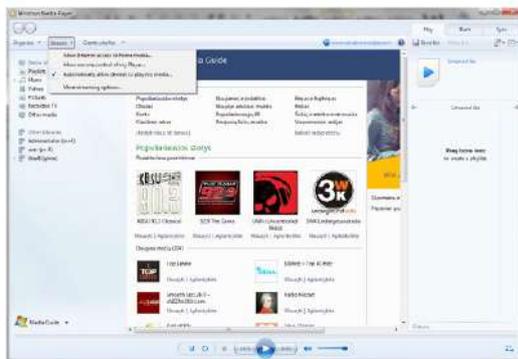


Operation

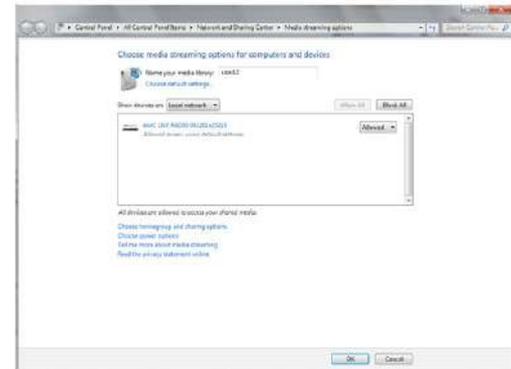
MUSIC PLAYER (UPnP server)

This guide will help you to set your Windows PC and Windows Media Player (12 and later) to share audio files from your PC to LIVE RADIO located on the same network.

First, create a library from all the media files available on your PC in Windows Media Player. Select "Stream" from the menu and mark "Automatically allow devices to play my media". Note, this may take a few seconds for the radio to complete it's scan and before the scan has been completed, the radio will display all founded UPnP servers.



In to the "More stream options" submenu (Stream > More stream options), the radio will be listed as an AMC LIVE RADIO. Click on this AMC LIVE RADIO icon and select "Allowed" option and click "OK" button to starts sharing.



- Playback from a USB storage device
The LIVE RADIO supports USB 2.0 storage devices. When connecting a USB memory stick, it may take a moment for the LIVE RADIO to read the folder tree. The supported file systems include FAT and NTFS.

Operation

System settings

NETWORK

Configure network settings of your LIVE RADIO, set the connection method wired or wireless, find internet wizard, PCB Wlan setup, set Wlan region or view network settings.

TIME / DATA

Time, data, time zone settings.

LANGUAGE

Select device language (German, English, French, Italian and Spanish).

FACTORY RESET

Factory reset restores device settings to default values, all user data is deleted.

SOFTWARE UPDATE

Use this menu to download new firmware for the radio from server. A firmware upgrade may take several minutes, do not switch off the power of the device until the operation is completed. During firmware update, all user settings are deleted.

SOFTWARE UPGRADE

This option allows upgrade live radio software using PC. Connect live radio with computer using A type USB cable and select "Software upgrade" from the device menu. Follow on screen instruction and confirm selection by pressing "Info" button. After confirming, "Waiting for PC wizard" message appears on the screen. Open live radio software file in PC and follow on-screen instructions to start software upgrading. During the upgrade message "Please wait upgrading" will be displayed on the device screen. "Upgrade completed" message will inform about successful upgrading. Device will restart automatically after software upgrade.

PRUNE SERVERS

Device stores details of UPnP servers that it has seen via its network connection. If you use the radio at different locations you may find that there are servers listed by the radio that are no longer available. The prune servers function allows updating the list so only active UPnP servers on the current network are displayed when selecting 'Shared Media' from the menu. To perform this function go to Menu > Prune servers and select "YES"

SETUP WIZARD

Use setup wizard to reset user data and network connections.

Operation

System settings

INTERNET RADIO PORTAL

The Frontier Silicon Internet radio website allows you to listen internet radio through your computer and organize your favorites list free of charge.

To register your unit to this portal, you will require an access code. This code is located in the "help" submenu under the "Get access code" tab:

Main menu > Internet radio > Station list > Help > Get access code

Visit the website www.wifiradio-frontier.com. If this is your first visit, an access code, your e-mail address, password and an internet radio connected to the network will be required. If you already have an account, log in and select:

My preferences > add another Wi-Fi radio.

Once your unit has been registered, you will be able to use the Favorites and Added stations functions.

INFO

This menu displays all the device information. There you find the installed firmware version and the hardware ID of your LIVE RADIO.

CONTROL APP FOR IOS AND ANDROID

The DOK and UNDOK app offers remote control functionality for Live radio by using iOS or Android smart device. It allows navigating between modes, browsing content, controlling playback volume and more.

The app has been designed for iOS and Android smart devices to operate with Frontier Silicon based devices. UNDOK and DOK apps available on Google Play and App Store for free.



General Specifications

LIVE RADIO

Power consumption	20 W
Power supply	AC 230 V, 50 Hz
Music sources	Internet radio FM radio Media player USB flash
Inputs	75Ω unbalanced FM antenna terminal 2.4 GHz SMA terminal for Wi-Fi antenna RJ45 (Ethernet) cable terminal
Outputs	Stereo RCA Optical output TOSLINK
Max output level	+2 dBu

FM frequency range	87.5 – 108 MHz
FM preset stations	10
Internet radio preset stations	10
Media player	Supports compressed audio formats, WAV, FLAC
Remote control	IR remote

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.