



LIVE RADIO

INTERNET/FM RADIO



User Manual

**IMPORTANT SAFETY INSTRUCTIONS****CAUTION!**

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

**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.



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. The product should be positioned so that proper ventilation is maintained.
5. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) 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. Replace the fuse only with one of the specified type, size and correct rating.
7. The power supply cord should be undamaged and never share an outlet or extension cord with other devices so that the outlet or extension cord's power rating is exceeded. Never leave device plugged into the outlet when it is not being used for a long period of time.
8. Care should be taken so that objects do not fall into device, and liquids would not be spilled through, the enclosure's openings.
9. The product should be serviced by qualified service personnel if:
  - The power supply cord 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 player. The cover should be removed by the qualified personnel only.

**No user serviceable parts inside.**

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## Introductions

**Internet/FM radio** - music players with integrated Internet radio, Media player, FM tuner and USB reader. Internet access to this device is available by Wi-Fi and Ethernet interface. All functions can be controlled by remote control. RDS and ID3 supporting.

## Features

- S/PDIF optical output.
- Output level potentiometer.
- Wi-Fi and LAN interface.
- Stereo RCA output.
- Connector for FM and Wi-Fi antennas.
- USB flash reader.
- Media player.
- IR remote control.
- RDS and ID3 supporting.

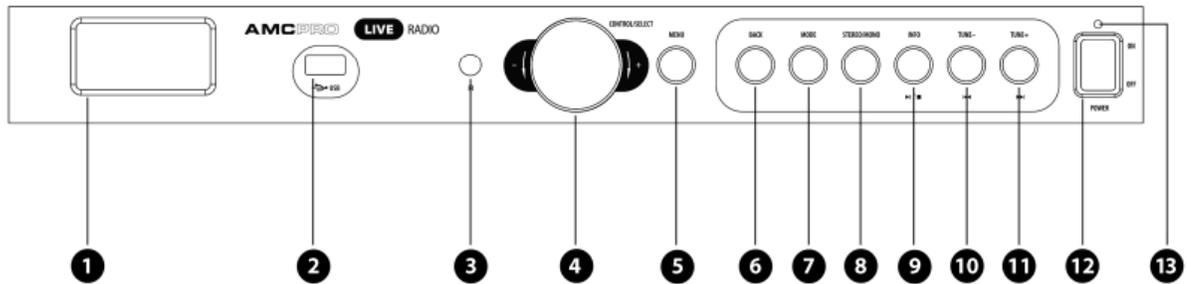
## What do you need before starting?

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, preferably via a router. 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.

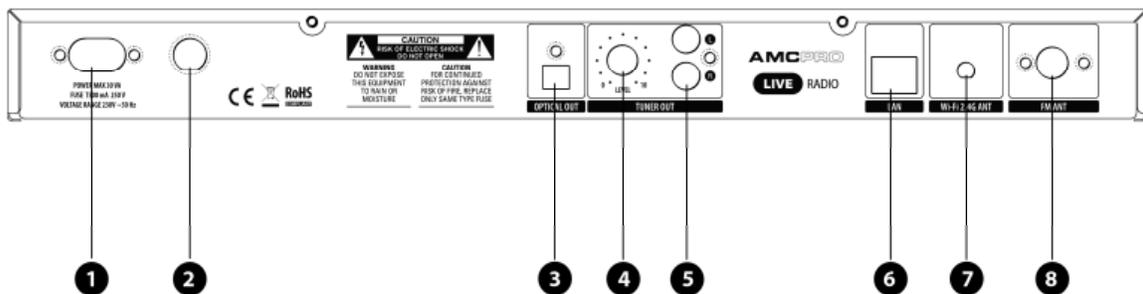
## 5 Operation

### 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
13. Standby indicator

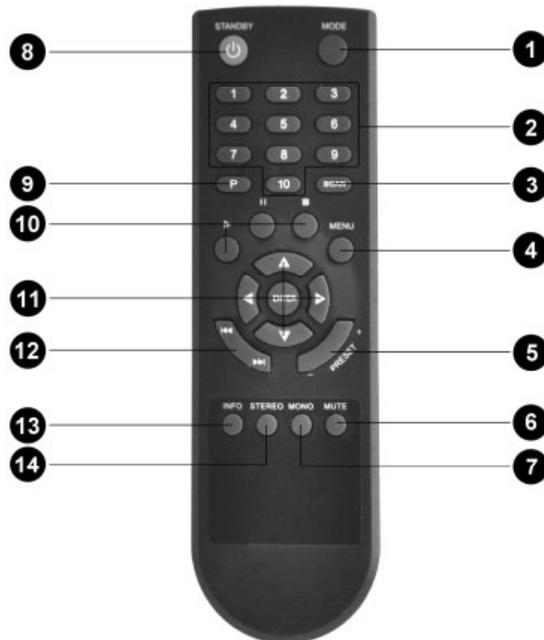
### Rear Panel



1. Power connector
2. AC fuse (T 500 mA 250V)
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

## 6 Operation

### Remote control



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

### Functions description

#### LCD DISPLAY

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

#### USB SLOT

For USB flash drive inserting.

#### IR DETECTOR

Receive controls commands from the remote control.

#### NAVIGATION KNOB

Turn this knob to scroll through the menu and push it to enter to the submenu. The navigations buttons on the IR remote control had the same function as rotating knob. Please note than up and down knobs are for the menu scrolling, left and right for the entering to submenu and back to previously menu page.

#### 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

Allows to go back in to previous menu page.

### **MODE**

This knob allows to select one of three music source: FM radio, internet radio or music player.

### **STEREO/MONO**

This function allows 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 provides information about the station that is now playing and additional information about the artist and the title of the song. Press info button a few times to find a different information in the display. In the music player mode info button becomes as play/pause button.

### **TUNE - (backward)**

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

### **TUNE + (forward)**

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

### **STANDBY INDICATOR**

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

### **POWER SWITCH**

By using this switch LIVE RADIO can be turned on/off.

### **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 output's level control.

### **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.

### **NUMBER KEYBOARD**

These buttons allows to select the radio station from preset menu. To save the radio station in the preset press and hold one of the number key.

### **SCAN**

To activate auto scan function pres this button. The auto scan function stops, once the station is founded.

### PRESET

To jump into the forward or backward preset use this button at the moment when station selected from preset logo is displayed. In other way this button is inactive.

### MUTE

To mute the output volume, press this button.

### NAVIGATION BUTTONS

Use this buttons to scroll through the menu and push "enter" to enter to the submenu. Please note than up and down knobs are for the menu scrolling, left and right for the entering to submenu and back to previously menu page.

### PRESET MENU

To view all presets saved in the memory press "P" button on the remote control.

### STAND BY

Allows to set standby mode on the device. When device is in standby mode the standby LED located in the rear panel indicates it.

## Display

Please find the symbols which are showed under the bottom line of the display.

 - 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

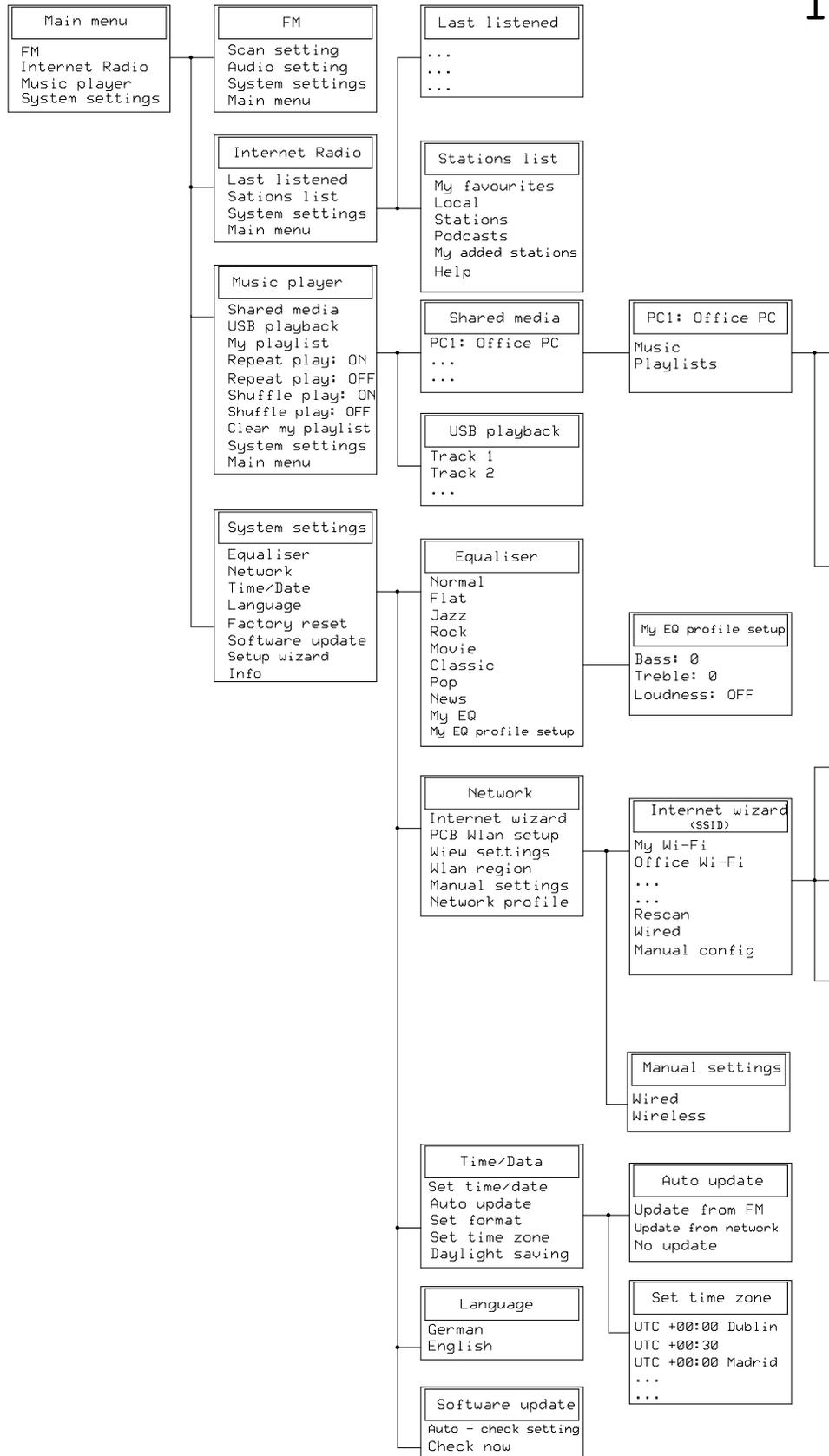
When live radio has been activated for the first time, follow these steps to connect your device to the network. The best way to do this deal is to activate "Setup wizard" in the system setting menu. Before the starting setup wizard please set the corresponding language if the default menu language is not understandable for you. Please find out how to change language below:

Main menu > System settings > Language > German  
Hauptmenü > Systemeinstellungen > Sprache > English

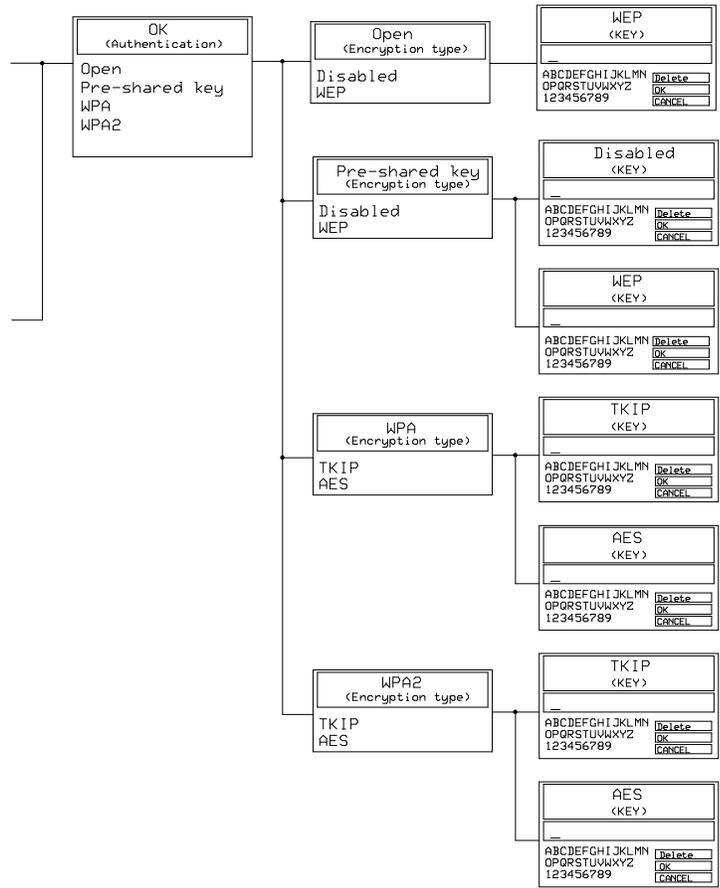
If live radio is turned on for the first time and setup wizard doesn't start automatically, please, activate wizard by using menu:

Main menu > System settings > Setup wizard





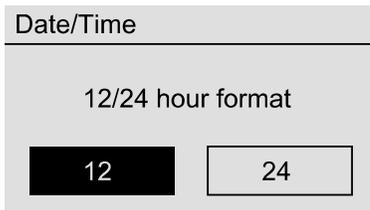




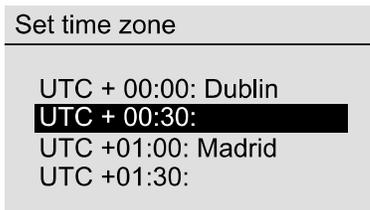
## Setup wizard



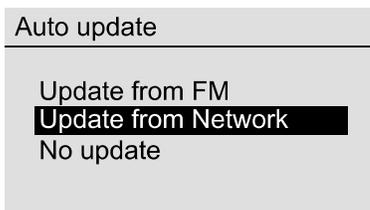
After wizard starts select "YES" to confirm the setup.



Enter the time format (12/24-hour) by using the navigation knob.



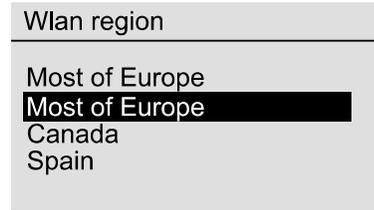
Select the time zone of your location.



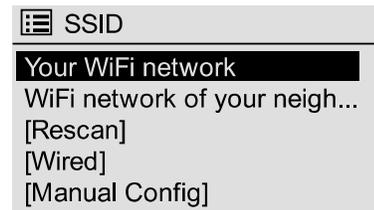
Select the way how the internal clock will be adjusted.



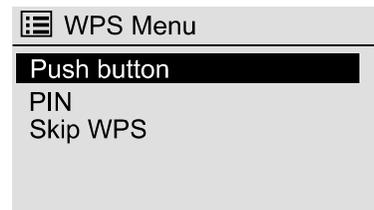
After enabling "Daylight saving" the automatic summer/winter time correction will be activated.



Select the region of your location.



Please find the list of all Wi-Fi networks that was found. Select "your" network now or select "rescan" if there is no your Wi-Fi listened. If at this point, you decide that you rather connect your radio to the router by using wire, select the menu item "Wired".



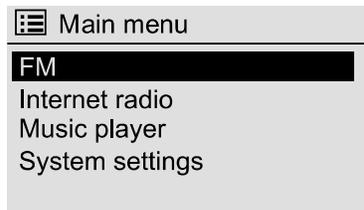
For easy establishment select the "push button" on the menu and push WPS button on the wireless router. If this function is unavailable on your router, select the "Skip WPS" and enter the password for your WLAN router via the navigation knob: turn the knob to select the letters and numbers, and press it to confirm the entry. You can find the special characters by scrolling further using the navigation knob. If you accidentally type the wrong character, use the "BKSP" to delete. When you have finished entering the password, go to the "OK". After you confirm using the OK button, the live radio sends the password to the router which – if the password is correct – logs on the LIVE RADIO. At this moment "Setup wizard completed" appears on the screen.

## 14 Operation

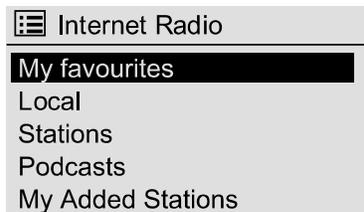
Main menu

Internet 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 internet radio menu.



The list of Internet radio stations is always kept up-to-date and continuously expanded. The service ensures that you always have a fresh, reliable selection of stations despite the continuous changes in the Internet radio world. When you access the Internet radio menu, the LIVE RADIO automatically retrieves the current version from the Internet, thus making sure that you always have the latest version. Simply use the usual controls to navigate through the pre-sorted station list. If you happen upon a station that you like to find again, simply press one of the station keys for approx. 2 seconds during the playback to store the station and press this same number button to bring it up again later as desired.

My favourites

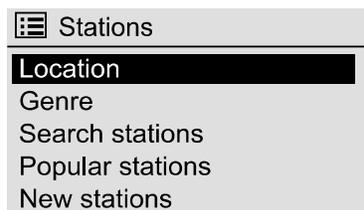
LIVE RADIO has its own favourite list, which you will find on the Internet Radio menu. To create favourites, press and hold the navigation knob or the "Enter" button on the remote control for a few seconds. If a favourite is stored, the LIVE RADIO will display the message "Favourite added".

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

Local

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

Stations



## 15 Operation

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

You can 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

New stations are added almost every day. And the list of these items you can find in this submenu.

### Podcast



Popular shows from a daily radio program are recorded and made available online so that they can be called up any time as podcasts. The variety of these contents is vast and growing every day. Possibly it is an interesting alternative to classic radio: and it's not only broadcast organizations that provide content like this, more recently live recordings university lectures, language courses, comedy programs or just plain simple audio journals added to the offer. There's everything for any desire. With your LIVE RADIO you have easy, free access to the podcast collection.

## Music player (UPnP server)

This guide helps you to set your PC which has Microsoft Windows XP, Microsoft Windows VISTA or Windows 7 operation system and Windows Media Player 11 to share audio files from your PC to LIVE RADIO located in to same network.

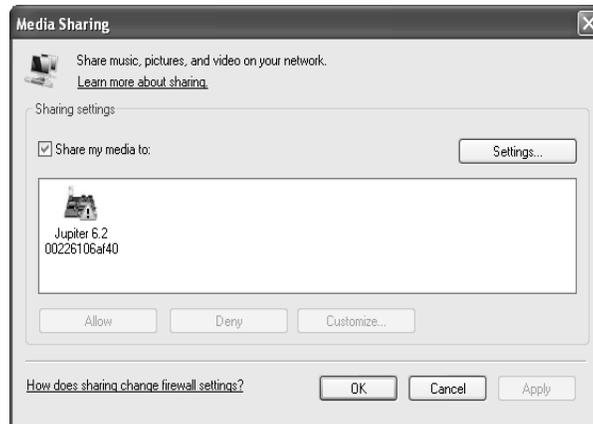
If your PC has oldest Windows Media Player's versions, please upgrade this player in to Windows Media Player 11. Windows Media Player 11 can be downloaded from Microsoft's website and installed by following the instructions detailed in it's installation wizard.

Once installed, Windows Media Player 11 you must create a library from all the media files available on your PC. To add new media files to the library, select: File > Add to Library > Advanced Options, Click 'Add' and choose the files or folders you wish to add. After all track loading close the dialog window. Now you need to connect your LIVE RADIO to Windows Media Player 11 and configure it to allow the radio to access your media library.

In order to this, you need to do the following: Go to the main menu and select the "Music player". Select "Shared media" to activate the UPnP server's loading. 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. If LIVE RADIO can't stop loading, maybe PC is not configured as UPnP server.



In order to allow the radio to have access to the media files, you need to click the 'Library' tab from Windows Media Player 11 and select the "Media sharing".



In to the 'Media Sharing' window, the radio will be listed as an Jupiter 6.2 device. Click on this Jupiter 6.2 device icon and click 'Allow', "Apply" and 'OK' buttons.

### Playback from a USB storage device

You can use the USB port for connecting USB mass storage media, like MP3 player, smartphone or USB memory sticks. The LIVE RADIO supports USB 1.x and USB 2.0 storage devices. Some MP3 players encrypt the files stored on them and thus unfortunately cannot be read. When connecting a USB memory stick, it may take a moment for the LIVE RADIO to read the folder tree. After that, the navigation should work as usual. The supported file systems include FAT and NTFS.

### FM radio

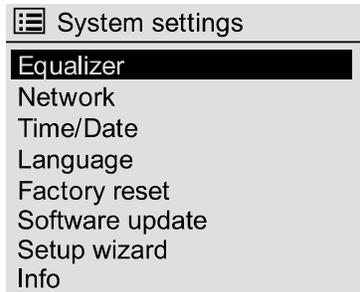
From the main menu or by using "mode" button in the front panel you can activate FM radio. Press "tune-" or "tune+" buttons to activate auto scan or turn the navigation knob to search station manually. The auto scan function stops, once a station is founded.

By pressing "Info" key in the front panel different information about playing radio station can be displayed. This information depends from radio stations RDS so different stations provide different information.

You can access and use additional settings in the radio. Press the „MENU" button in FM radio mode.

## System settings

### Equalizer



The equalizer enables you to adjust the sound tones of the LIVE RADIO player. The various presets adjust the bass, midrange and treble differently, so that everyone can find a pleasing setting. The following equalizers are available: normal, flat, jazz, rock, movie, classic, pop and news. If you are not satisfied by of the presets, you can also create your own, customised to your tastes, under “My EQ profile setup”. This allows you to raise or lower bass and treble levels by up to 14 dB. You can then call up your stored settings using “My EQ”

### Network

Here you can configure the network settings of your LIVE RADIO. You can set the connection method wired or wireless, you can find internet wizard, PCB Wlan setup, set Wlan region or view network settings. Manual network settings and network profile can be found in this menu too. All network settings are available there.

### Time/Data

Time and data settings as well as time zone settings can be found in this menu. In “auto update” submenu time synchronization settings are available too.

### Language

Select you native or easily understandable language. Scroll through the list using the navigation knob and confirm by pushing it. There are available German and English languages.

### Factory reset

If same errors or unstable working appears on LIVE RADIO PLAYER the factory reset can solve these problems. Please note that after factory reset all settings will be deleted from device memory.

### Software update

Use this option to download new firmware for the radio from server. If there is a new firmware available, then the radio will prompt you if you want to download it or not. A firmware upgrade may take several minutes, so do not switch off the power of the radio until the operation is completed otherwise the radio may become damaged. If you do not want always to do upgrade manually, select “Auto check setting”. If you would rather do it yourself from time to time, click “Check now” in software update menu. During firmware update, all the settings you have configured are lost. Therefore, you have to configure them again after the update.

## Setup wizard

If you want to start again from the beginning and reset the data and network connections please start the setup wizard.

## Info

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

## Internet radio portal

The Frontier Silicon Internet radio website allows you to listen internet radio through your computer and also lets you organize your favorite lists. This portal is 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. Please find out how to find the code below:

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

Visit the website [www.wifiradio-frontier.com](http://www.wifiradio-frontier.com). If this is your first visit, an access code, your e-mail address, password and an internet radio connector to 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.

Specifications

Power supply	AC 230V, 50 Hz
Max power consumption	20W
Music sources	Internet radio FM radio Media player USB flash disc
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