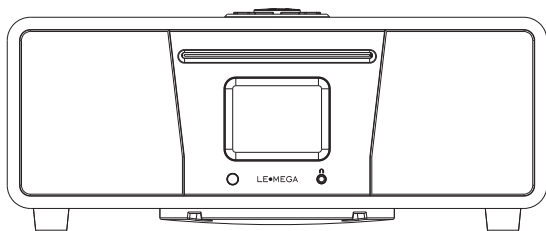


Owner's Manual

M4+ Wireless Streaming Music System

CD/WiFi/DLNA/Spotify/Internet Radio/
DAB/DAB+/FM/AUX/Bluetooth



LE•MEGA

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1. Safety

1.1 Safety Instructions

Please store this instruction manual for future reference.

- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that objects filled with liquids, such as vases, shall not be placed on apparatus.
- **WARNING:** The direct plug-in adapter is used as disconnect device, the disconnect device shall remain readily operable.



- This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
- **Warning:** To reduce the risk of electric shock, do not remove cover(or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
-  **Correct Disposal of this product.** This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.
- No naked flame sources, such as lighted candles, should not be placed on the apparatus.
- Do not use this product near water or moisture.
- Clean only with a dry cloth.
- Unplug this product from the wall outlet before cleaning.
- Place the unit on a solid surface.

- Do not put it in a closed bookcase or a cabinet that may keep air from flowing through its ventilation openings.
- Do not install near any heat sources, such as radiators, heat registers, stoves or other appliances that produce heat.
- Protect the power cord from being walked on or pinched, particularly at plugs and the point where they exit from the product.
- Servicing is required when the product has been damaged. Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please contact the manufacturer to be referred to an authorized service center near you.
- To prevent risk of fire or electric shock, avoid over loading wall outlets, extension cords, or integral convenience receptacles.
- Do not let objects or liquids enter the product.
- Use proper power sources. Plug the product into a proper power source, As described in the operating instructions or as marked on the product
- Changing sources while a CD is playing causes the CD to stop playback. Playback will resume when the source is set to CD again.
- The sound quality of MP3, CD-R/CD-RW, and even commercially recorded discs can vary greatly. The same holds true for the sound quality of portable MP3 players.
- Do NOT use any CD lens cleaning discs since these are not designed for slot-load machines.
- Avoid bending the disc when loading or ejecting.
- Do not move the unit while a disc is playing and do not ship the unit with a CD inside.
- Do not try to insert a disc in the slot if one is already inside the unit.
- Do not insert specially shaped discs or 3" CD "single" discs.

You may experience a delay in playback when inserting MP3 or WMA discs while the player reads the directory.

Paper labels stuck to CD-R/CD-RWs may become loose and possibly damage the player.

- CDs with severe scratches may not play properly.

- Do not insert anything except a CD inside the loading slot.
- In the rare event you experience an error, unplug the power cord for 60 seconds and then plug it back in firmly.

1.2 Features

This manual describes how to use the M4+, an advanced but easy-to-use Wi-Fi connected audio system with the following modes:

- **Internet Radio** with access to over 20,000 stations by wifi streaming or Wired Ethernet connected, 'Listen again' broadcasts and podcasts.
- **Spotify** acting as wireless speakers controlled by the Spotify App available for iOS/Android smart devices and a desktop client for PCs.
- **Music player** allowing easy navigation and playback through a USB or network-stored library of music files including AAC+, MP3, WMA, WAV, and FLAC. Play To feature allowing media to be pushed from a PC running Windows 7 to M4+.
- **DAB/DAB+digital radio** with a wide choice of channels and digital quality sound broadcast free-to-air.
- **FM with RDS** (Radio Data System).
- **Bluetooth:** streaming music and control from smart device.
- **USB port:** to play the MP3 music from USB stick storage device.
- **Aux in** or external MP3 music sources from iPod/iPad or other Mp3 players.
- **CD playback:** playback formats: audio CD, MP3 CD, WMA CD, CD-R and CD-RW)

M4+ also provides the following features

- Large TFT color display for easy control and clear information display.
- Infrared remote control
- Remote control from an Android or iOS Smart Device, using Spotify App or UNDOK the Frontier Silicon Remote Control App to control the playback.
- Clock with auto-update capability and dual independent alarms Sleep/snooze.

- UPnP Music player modes
- Multiple network profiles for easy setup and portability.
- Multiple languages.

1.3 Carton contents

After you unpack the box, you will find the following items:

- 1 M4+ unit
- 1 power cord
- 1 owner's manual
- 1 Remote Control
- 1 gloves

1.4 External resources

To operate M4+, the following external resources are needed:

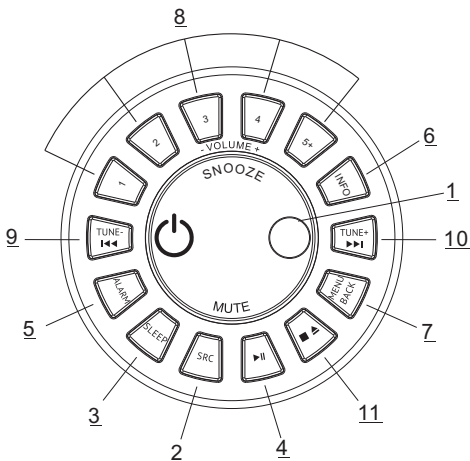
- A power source (100-240 V mains supply)
- A wireless (Wi-Fi) network (provided through a router) with Appropriate permissions and password if necessary (for Internet radio and Network Music player modes)
- Broadband Internet access (for Internet radio mode and Spotify mode and Internet Software Update)
- A music library stored on the network or on a USB mass storage device (for Music player modes),
- An iOS or Android device (for using control apps).
- An external audio source (for Aux in mode)

1.5 Conventions used in this manual

Button	(press) Physical button on the keypad
Option	(select) Menu option shown on the display
Name	Menu, screen or other name

2. Controls, connectors and display

2.1 Main controls



1. SELECT/ VOLUME/MUTE/SNOOZE:

- SELECT:** Turn to scroll through a menu or station list. The chosen option is highlighted in yellow text), Press to the button to select.
- VOLUME:** Turn to the button to adjust the volume up or down when playback.
- MUTE:** Press to the button to mute the music when playing.
- SNOOZE:** Press the button to snooze a set time when alarm sounding.
- POWER ON | OFF the unit:** Long press this button to power on/off the unit.

2. SLEEP: When playing, press Sleep, M4+ will back to set sleep time. When playing, opens the sleep menu to set the time interval before the unit is set to Standby mode. When alarm is sounding, allows you to set the snooze interval.

3. SOURCE: Press to Source to select different modes internet radio, Spotify, My music, DAB, FM, Bluetooth, CD and Aux.

4. ALARM: Press to Alarm, the screen will display Alarm 1 and Alarm 2; then Rotate and press the SELECT button to select alarm 1 or alarm 2 to set up.

5. INFO: View more information about the station or track playing. Press again to cycle through further information screens then return to the normal Now playing screen.

6. BACK/MENU:

- BACK:** press the BACK to return to the previous screen.

b. **MENU**: press the MENU to show the MENU for the current mode. Press again to show now playing screen.

7. **PRESET**: Long press 1,2,3,4,5+ to preset and save the favorite stations (save 20 favorite stations); Short Press to 1,2,3,4,5+ to select the favorite station or Preset recall. You can preset 20 stations by press 5+ and by scroll the preset list to achieve.

8. **TUNE- / ◀◀** : Previous: Press to select the previous track under FM/DAB / Bluetooth/CD mode; Press and hold the Tune- button 2 seconds to auto-scan the stations under the FM/DAB mode.

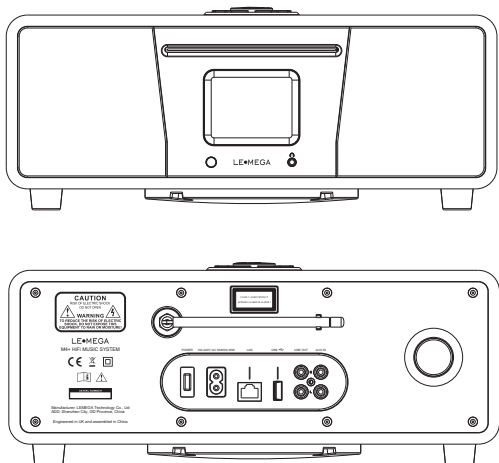
9. **TUNE+ / ▶▶**: Next: Press to select the next track under FM/DAB/ Bluetooth / CD mode; Press and hold the Tune+ button 2 seconds to auto-scan the stations under the FM /DAB mode.

10. **▶||** : Press to select Play/Pause under internet radio, Spotify, My music , Bluetooth and CD mode. In DAB and FM, press to do auto scan the stations.

11. **■ ▲** In CD mode, Press to stop CD track. Press again for CD ejection.

2.2 Connectors

As shown below has connectors (from left to right)for the followings:

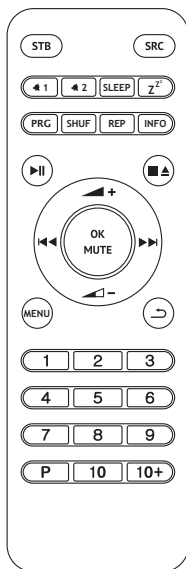


- Power switch
- Power input (100-240V)
- LAN for Wired Ethernet connect
- USB socket for USB stick with MP3 music playback (not for charging).
- Line out (to connect to an external amplifier or active speaker)
- Aux in (to connect external MP3 music source from the iPod, or Pad other device)
- Headphones out on front panel for the headphone playback.

2.3 Remote control

In additional to duplicating most of buttons on top of the unit, the remote control adds the following functions:

1. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 10+: Press to preset the favorite stations. The presets recalled using the 1 through 10+ buttons on the remote control.



2. **▶ II** : Press to play / pause the playing under internet radio, Spotify, My music, BT mode and CD mode. Auto Scan stations under DAB and FM mode.
3. **■▲** Press to stop CD playback, press again for CD ejection.
4. **▲ + ▼** – Press to volume up or volume down in playing screen. Press up or down to select menu for settings.
5. **◀▶** Press right or left to select mode. In playing screen, press right or left to select FM, DAB, internet radio or CD tracks.
6. **P: Preset**: To store an FM/DAB preset, press and hold Preset until the display shows the Save preset screen. Select one of the 20 presets to save the currently playing station.

To select a preset, press Preset briefly, then select one of the listed Preset stations. When a preset station is playing, it shows (*1, *2 etc) in the bottom middle of the screen.

7. **OK/MUTE**: Long press the button to switch normal playing screen image to full screen slide show image.

8. **PRG**: for CD programme, adjust the different playback sequences to play tracks.

9. **SHUF(Shuffle)**: with a CD playing, briefly press to play the tracks in random order. Press the Shuffle button a second time to cancel shuffle play.

10. **REP(Repeat)** : With a CD playing, press once to repeat the track being played; Press twice to repeat the entire disc; Press again to cancel the Repeat mode or press stop. Repeat 1 can not be used in conjunction with Shuffle.

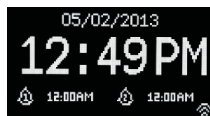
2.4 Screens

The screen shows various menus, dialogues and displays as described below. There are basically six types of screen:

- Standby (clock)
- Splash (mode)
- Now playing
- Dialogue
- Error/Information
- Menu

Where there is more text than can be fitted onto a screen, the text automatically scrolls right to left after a brief pause.

The **Standby screen** shows the time, date and any active alarm times.



A **splash screen** is displayed for each mode. Press source to cycle through the listening modes.



Now playing screens show information about the audio source and track now playing, where available.



Dialogue screens are shown to allow the user to change settings. They vary in complexity from simple Yes/No options up to the scrollable network passphrase input screen.



The selected option is highlighted with a yellow background. Dialogue screens mark the currently saved setting with an asterisk (*).

Error/Information screens give specific messages for a few seconds, then change automatically to the next screen.



Menu Screens – for details of menu screens see under Section 2.7 Menu.

2.5 Operation

After the initial setup, M4+ is ready for operating in most Modes.

To select a Mode, press source until the required Mode splash screen is displayed. Press select button to that mode. The last station or track previously used in that mode is selected.

If this is not possible, M4+ scans for relevant stations, networks, or prompts the user for appropriate input. See the relevant Mode section for details of how to use each listening mode.

The Common local controls for sound volume, Mute and Play/Pause are available in all listening modes.

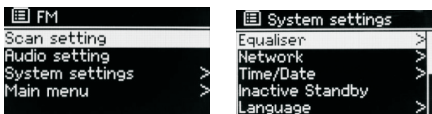
2.6 Menu navigation

The primary control for moving through menus and options is the Select Control. Rotate the control to move up or down a menu. Once the required option or value is highlighted press the Select Control. All menus and lists act as loops such that turning the control to go beyond the first or last entry in a menu or list takes you to the opposite end of the menu or list. So going up from the first entry in a menu will take you to the last option in the menu, etc.

A “>” appears on the right of the screen if there are more options above or below those visible.

To enter the menu tree in a particular mode press Menu. To move back a menu level press Back . To exit the menu system, press Menu again. Each mode has a Mode menu, with options specific to that mode.

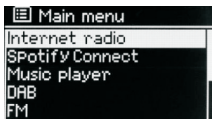
For example, the FM mode menu has two mode specific options: Scan setting and Audio setting.



In addition, each mode menu has two final options: System settings > and Main menu >. The “>” indicates options leading to further menus.

The System settings menu presents system setting functions to allow the user to setup how the unit behaves. This includes Equalizer, network time/date, language, factory reset and software update…….

The **Main menu** presents an alternative method for selecting listening modes plus sleep and alarm functions.



3. Started and setup

M4+ is easy to use. To play DAB or FM radio, all you need is a power source (a 100-240 V mains supply); For Music Player mode, you need a wired/wireless Ethernet network and a UPnP music server (e.g. a PC). For Internet-connected modes such as Internet radio, you also need a broadband Internet connection.



3.1 Setup wizard

When M4+ is started for the first time, it runs through a setup wizard to configure settings for date/time and network. Once this has finished, the system is ready to use in most modes.

Note: To change these settings later, select Menu > System settings > .

To run the setup wizard again, select Menu > System settings > Setup wizard. Select Yes to start the setup wizard.

If you choose No, the next screen asks if you would like to run the wizard next time M4+ is started. The system then starts without configuring time/date and network settings and enters the Main Menu.

Note: If power is removed while the wizard is in progress, the wizard will run again next time M4+ is started.

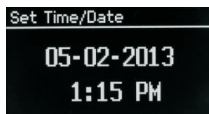
3.1.1 12/24 hour display

To change between 12 and 24 hour display, select Set 12/24 hour and then select your preference.

3.1.2 Set Time/Date (wizard)

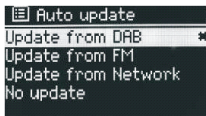
The date and time are displayed as dd-mm-yyyy and hh:mm AM/PM with the first value, dd, active (flashing).

Adjust each value with the Select control. As each value is set by pressing the Select control, the next value becomes active ready for adjustment.



Auto-update

Auto-update works with data sent over DAB, FM or the Internet. The clock is only updated when in a corresponding mode, so it is best to select a mode you use regularly.



DAB and FM use time signals broadcast with radio transmissions.

Network uses a time signal sent from the Internet radio portal when in any network-connected mode.

1. Select Update from DAB, Update from FM, Update from Network or No update.
2. If you are updating from the network, set your time zone.
3. If your country uses daylight saving, the automatically updated time from the network may be wrong by one hour. When daylight savings are in effect (during the winter), turn on the Daylight savings option to rectify this.

Note that if you are updating the time from DAB or FM, the Daylight savings option has no effect on the clock's time.

M4+ will auto-update from the selected source when time information is available.

Manual set

If you set No update, the wizard now prompts you to set the time and date manually.

The date and time are displayed as dd-mm-yyyy and hh:mm AM/PM with the first value, dd, active (flashing).

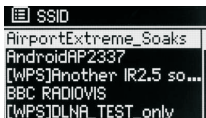
Adjust each value with the **Select** control.

As each value is set, the next value becomes active and flashes.

3.1.3 Network

M4+ is compatible with all common network protocols and encryption methods, including Wi-Fi Protected Setup (WPS).

To connect M4+ to your network, you need a Wi-Fi wireless router, together with password key if set Select WLAN region/country >Wi-Fi network (SSID), and then select a network from the list.



If the network is open (non-encrypted), M4+ connects and no further details are required; see Completion below.

Standard encrypted network

To enter the network's key (password), use the Select control to highlight the next relevant character and press to select each character in turn. As each character is selected, the key is built up near the top of the display.

The three options – Backspace, OK and Cancel are included in the selection loop.

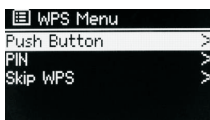
These can be accessed just using the Select control, or, a short cut is available, pressing the Info key, which moves the selection highlight to the Back Space option.



WPS setup

WPS encrypted networks are identified by '[WPS]' at the start of the network name, and have two methods of connection. Select one and follow the prompts. When using the network wizard an additional option to Skip WPS is available.

Select one and follow the prompts:



- **Push Button**

M4+ prompts you to press the connect button on the router. It then press the select control.

- **Pin > (code number)**

M4+ generates an 8-digit code number which you enter into the wireless router, access point.

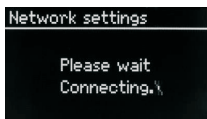
- **Skip WPS >**

Enter key as for a standard encrypted network, above. For more information on setting up a WPS encrypted network, see your WPS router's instructions.

On completion

M4+ connects to the selected network.

If connecting fails, M4+ returns to a previous screen to try again. To exit the process use the Back/Menu button.



3.2 Other settings

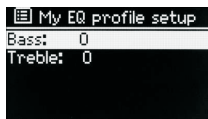
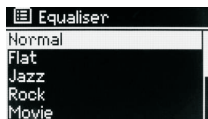
Sections for those modes. Common settings are covered below.

3.2.1 Equalizer

Several preset EQ modes are available; also a user-defined setting (My EQ).

To choose an EQ setting, select Menu >System settings > Equalizer. You can then choose from a variety of preset modes and My EQ

The last option 'My EQ profile setup' allows you to define your own settings for the 'My EQ' option, with custom bass, and treble settings.



3.2.2 Network

M4+ remembers the last four wireless networks it has connected to, and automatically tries to connect to whichever one of them it can find. You can see the list of registered networks through Menu > System settings > Network > Network profile > From here you can delete unwanted networks by turning and pressing Select then confirming delete Yes.

There are also other options for viewing and manually altering network settings from Menu > System settings > Network > (for example setting up a wired network).

Users experienced with networking may find these options useful for diagnosing and fixing network problems.

3.2.3 Language

The default language is English. To change, select **Menu > System settings > Language** > then select your language.

3.2.4 Connection your smartphone with the radio via UNDOK APP

To connect your Smartphone with M4+ you need to download the free app "UNDOK" from Apple Store or Google Play Store. IMPORTANT: The phone must be in the same wireless network as the music system.

- Download the app and open it.
- The app automatically searches for available devices. Select "LEMEGA M4+" from the list.
- Open SOURCE to choose between different input signals.
- Open BROWSE to get a list of available stations. Select the desired station.
- Open NOW PLAYING to get more information about the channel.
- Open the settings to adjust the equalizer, set sleep timer and other functions easily.

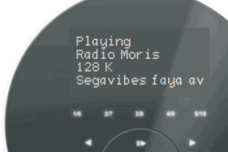
3.3 Internet radio portal registration

M4+ uses the Frontier Silicon Internet radio portal website that allows you to organize your favorite's lists and also listen to Internet radio on a computer.



Access global stations
Personalise favourites

Search. Browse. Find.



☒ Stations ☐ Podcasts

Browse Stations

- By location
- By genre
- By language
- New stations
- Most popular

Browse Podcasts

- By location
- By genre

My account

- My favourites
- My added stations
- My preferences

English Dansk Portugies
Español Norsk Italiano
Français Svensk Nederlands
Deutsch Suomi

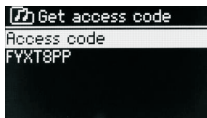
About us Contact us Logout

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Mark's radio

Station name	Location	Genre	Stream
2 Ten FM	Reading United Kingdom	Electronica	WMA 128K
BBC Radio 2	London United Kingdom	Variety	RealPlayer 44K
Capital Radio	London United Kingdom	Top 40	WMA 128K
Virgin Radio	London United Kingdom	Pop	MP3 128K
On Air Power	Internet Only	World Asia	MP3 128K
Antenna Uno	Catania Italy	Dance	MP3 96K
BBC Radio 1	London United Kingdom	Top 40/Dance/Rock	RealPlayer 16K
Radio Dzair	Internet Only	World Middle East	MP3 128K
108 Xtra	United Kingdom	Electronica	MP3 256K
Capital FM 98.4	Nairobi Kenya	Pop	WMA 20K
BBC RSLiveSportX International	London United Kingdom	Sports	WMA 48K
Classic FM	London United Kingdom	Classical	WMA 128K

To register your M4+ with the portal, switch to Internet radio mode and then obtain your radio's unique portal access code by selecting Menu > Station list > Help > Get access code > Write down the access code.



Note: The displayed access code is only valid for a few minutes. If you fail to register your radio within the time window you will need to repeat the above step to get a new access code and try again. Do not confuse the portal access code with the Radio ID (from **Menu > System settings > Info.**)

Visit the portal website at www.wifiradio-frontier.com.

If this is your first visit to the portal, register for a new account, entering the following information:

- access code,
-
- your e-mail address,
-
- passphrase,
-
- radio model (M4+).

If you already have an account and wish to add an additional radio, log in to your account and select **My preferences > Add another Wi-Fi radio**.

Once your radio is registered with the portal, you can immediately use the Internet radio favorites and added stations features.

3.4 Setting up a music server

In order for M4+ to play music files from a computer, the computer must be set up to share files or media.

UPnP media sharing allows devices like M4+ to play music from a shared media library navigating through tag menus such as Artist, Album or Genre. If you are running a suitable server system such as a PC with Windows Media Player 10 or later (WMP), and your music library is well-tagged, then it is recommended to use media sharing. Only the UPnP server needs to be set up.

Notice: iTunes does not currently work as a UPnP media server, but there are add-ons available to work with an iTunes library.

3.5 Sharing media with Windows Media Player

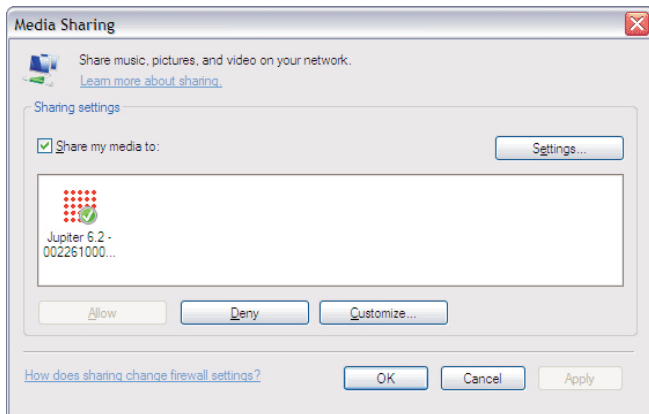
The most common UPnP server is Windows Media Player (10 or later).

Alternatively, other UPnP platforms and servers may be used. To set up WMP for media sharing, perform the following steps:

- 1.Ensure that the PC is connected to the network.
- 2.Ensure that the radio is powered on and connected to the same network.
- 3.In WMP, add to the media library the audio files and folders you want to share with M4+ (Library > Add to Library...).
- 4.In WMP, enable media sharing (Library > Media sharing...).

Notice: setup can differ depending on which version of WMP you have.

Notice: it may show; M4+, "Unknown device", "Frontier Silicon" or the Jupiter logo as shown below.



Make sure that the radio has access to the shared media by selecting it and clicking Allow.

You can also set a name for the shared media in Settings... Click OK to close the dialogue boxes.

The PC is now ready to stream the music to the radio. The WMP UPnP service runs in the background; there is no need to start WMP explicitly.

3.6 Setting up M4+ for “Play To” Windows 7 streaming media feature.

To set-up M4+ to be controlled and to stream music via Windows Media Player 12 (Windows 7 only), perform the following steps:

1. Ensure that the PC is connected to the network.
 2. Ensure that M4+ is powered on and connected to the same network.
- Note: M4+ must be in an Internet radio mode to be detected
3. From the Windows 7 main screen, select Start > Devices and Printers.
 4. Select the Add a device tab in the top left of the Devices and Printers window and follow the instruction prompts given by the wizard.

In the Devices and Printers window a icon *) will appear and you are now ready to stream your Windows media music files to M4+.

*) To change the name of your device, right click on icon and choose properties. Then choose UPnP and click on "device webpage".

4. Internet radio mode

M4+ can play thousands of radio stations and podcasts from around the world through a broadband Internet connection.

When you select Internet radio mode, M4+ contacts the Frontier Silicon Internet radio portal to get a list of stations, organized into different categories like Country, Most popular and Genre.

Once you select a station, M4+ connects directly to that station.



The portal also enables multiple lists of favourite stations that you can personalise, for example Andy's stations, Jo's favourites, Talkshows. To use the favourites feature, register your radio with the portal website. If you have several Frontier Silicon radios, you can register them all on the same account so that each radio has access to your favourite's lists. It is possible to add favourites either directly through M4+ or through any computer with a web browser.

To enter Internet Radio mode, either press Mode until the display shows Internet Radio or select Menu > Main menu > Internet Radio.

Note: The station list menu is provided from the Internet radio portal, so it is only accessible when M4+ is connected to the Internet. Station lists and submenus may change from time to time.

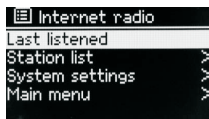
There are several ways of selecting stations.

Directly from the radio:

- Last listened
- Presets

From the portal through the **Menu > Station list> menu:**

- Favourites lists
- Browse by Country, Genre, Most popular, Newest
- Search by keyword
- My added stations



4.1 Last listened

When Internet radio mode restarts, the last-listened station is selected. To select another recently used station, select **Menu** > **Last listened** then one of the stations listed. Most recent stations appear at the top of the list.

4.2 Presets

Presets are stored in the radio and cannot be accessed from other radios.

To store an Internet radio preset, press and hold **Preset** until the display shows the Save preset screen. Select one of the presets to save the currently playing station.

To select a preset, press **Preset** briefly, then select one of the listed preset stations.

When a preset station is playing, it shows ☆ 1,2,3 etc in the bottom middle of the screen. Note: Operation of presets is identical for Internet radio, DAB and FM.

4.3 Favourites

Favourites are stored on the Internet radio portal. Before you set up an account on the portal from its Web interface (www.wifiradio-frontier.com), the favourites are associated solely with the radio on which you set them. After you set up a portal account, all the favourites from your different radios are merged into a combined favourites list. This combined list is available to all the radios on your account.

To store a playing station as a favourite, press and hold **Select** until the display shows 'Favourite added'. The station appears in the default favourites list Stations.

To select a favourite, select **Menu** > Station list > My favourites > [Favourites list] > [Station].

4.4 Browse

To browse Internet broadcasts, select **Menu**> Station list> then either Stations > or Podcasts >Browse through the menus to find broadcasts.



4.5 Search

You can also search through Internet broadcasts for stations or podcasts with particular keywords in their title.

To search, select **Menu** > Station list > then either Stations > or Podcasts >

Enter a keyword by selecting characters then OK. The search entry screens are similar in operation to the Wi-Fi password entry screen.

Select a broadcast from the list.

For podcasts, you may be able to select a particular episode.



4.6 My added stations

Even though the Internet radio portal contains thousands of stations, you may want to listen to stations not listed. You can add your own stations via the portal. These added stations are accessible from M4+ by selecting Menu > Station list > My added stations > [Station].

4.7 Now playing information

While the stream is playing, the screen shows its name and description. If artist and track information is available, this is also shown. To view further information, press Info .

Each time you press **Info**, another set of information is displayed, cycling through the following details:

- Artist and track name (default; where available)
- Description
- Genre and show country
- Reliability
- Bit rate and Codec and Sampling
- Playback buffer
- Today's Date

5. Spotify Connect

Connect your M4+ and Spotify control device to your home Wi-Fi

All devices need to be on the same Wi-Fi.

Get the Spotify app/Premium free trial

Download the Spotify app for your mobile or tablet from your app store, and take the Premium free trial. Log in to Spotify and start playing a track.

Play millions of songs on your M4+.

To start with, your mobile/tablet and M4+ need to be on the same Wi-Fi. Tap on the Now Playing bar to reveal extra controls, and select the Speaker icon. On the Connect screen, Just choose your M4+ and it'll start playing. Adjust the volume at the volume bar below on the Connect screen.

Spotify Connect

With Spotify you get millions of songs easily accessible. The artists you like, the latest hit songs and new discoveries, just for you.

With Spotify Connect feature lets you play and control all your music wirelessly. Select music on your smartphone or tablet and hear on the radio.

Your radio has Spotify Connect built. This allows you to control the music playing on the radio using the Spotify app on your smartphone or tablet.

Listen Nobody is seamless - you can call, play games, watch movies, and even turn off the phone without interfering music. There is a better way to hear music at home.

* For availability in your region, see www.spotify.com.

You must have a Spotify Premium account to get full access to millions of songs from Spotify archive, all with adequate sound quality.

If you do not have it, you can go to www.spotify.com/freetrial for a 30 - day trial.

To use Spotify Connect

1. Download Spotify app for your Smartphone or tablet (iOS or Android) .
2. Connect the radio to the same wireless network as your Smartphone or tablet, and then press the MODE button repeatedly to select Spotify Connect mode.
3. Open Spotify app on your Smartphone or tablet and play a song.
4. Touch the picture of the album at the bottom left of the screen. Then press Connect icon
5. Press M4+ to select your radio and it will start playing from you M4+.

Note that radio is that " LEMEGAXxxxxxxxxxxx " (12-digit number is the MAC address of the radio) in Spotify app.

6. Music player mode (network)

Music player mode plays audio files such as MP3s, AACs, WMAs or FLACs from a computer on the local network.



To enter Music player mode, either press Mode until the display shows Music player, or select **Menu** > Main menu > Music player Once in music player mode, press Menu , then select Shared media.



If you are already playing a music file, you can press Back to quickly return to the last visited branch of the menu tree. For example, suppose you were listening to the track Heat by the artist 50 Cent through browsing shared media as described in section 0 below. Pressing **Back** would return you to the track listing for the album Get Rich or Die Tryin'. Pressing **Back** again would list all 50 Cent albums. Pressing **Back** again would list all album artists, and so on.

You can use << and >> to move through tracks. Press and hold to rewind or fast forward and press quickly to select previous or next track.

6.1 Shared media (from UPnP media server)

Select **Menu** > Shared media >

If you have set up shared media, you should see an entry consisting of <computer name>: <Shared media name>, for example JB-Laptop: Audio. If you have more than one computer sharing media, the alternatives are listed. Select the shared media you want to play.

From this point on, the menus are generated from the shared media server (typically Windows Media Player).

The first menu shows a list of media types, for example Music, Video, Pictures and Playlists. M4+ can only play music and playlists.

There is also a search function, which finds tracks in a similar way to Internet radio search.

From Music, there are numerous ways of selecting tracks, including:



- Genre
- Artist
- Album
- Composer
- Rating

Once you have found a track you want to play, press **Select**. A short press plays the track immediately and a long press adds the track to the playlist. You can also add entire albums to the playlist.

M4+ plays either the selected track or the playlist.

6.1.1 Wake-on-LAN

If shared media is selected a list of available music servers will be displayed.

If a question mark appears before the server name, this indicates that the server has been seen before and supports Wake-on-LAN functionality, but cannot currently be found on the network.

If a server with a question mark is selected by the user, the device will try to

wake the server up and connect to it. In some instances this may not be possible as the server may not be connected to the network any more or may be switched off.

6.1.2 Prune servers

From time to time it may be necessary to remove servers displaying question marks in front of the server name from the server list. For example,

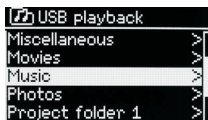
if the device is moved to a new network or if a Wake-on-LAN server is removed from your current network.

To perform this function go to **Menu** > Prune servers > Yes

6.2 USB PLAYBACK

To play audio from a USB mass-storage device such as a USB Flash stick or USB hard drive, Select Menu > **USB playback**.

Browsing folders From this point on, menus are generated from the folders on the USB device. Browse folders with the Select control and Back button. The display shows folder and file names (not necessarily track names).



Once you have found a track that you want to play, press Select . A short press plays the track immediately.

A long press (at any time while the track is displayed or playing) adds the track to My playlist. You can also add entire folders to My playlist.

6.3 Playlists

M4+ holds a queue of up to 200 tracks in the playlist.

Playlist tracks can be mixed from multiple UPnP servers.

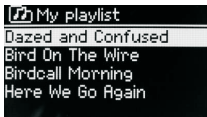
To manage the playlist, select **Menu** > My playlist.

To view the playlist, scroll though it by turning **Select** . UPnP tracks show their track name.

To play the playlist from a certain track, quick **Select** .

To erase a track from the playlist, long **Select** .then confirm YES.

If you select a track/album/folder for instant playback (without using the playlist), the playlist is preserved. The playlist is also preserved during standby.



6.4 Repeat/shuffle

You can repeat tracks or play them in random order by selecting **Menu** > Repeat play or **Menu** > Shuffle play.

6.5 Now playing information

While a track is playing, the screen shows its track and artist (UPnP). There is also a progress bar with figures for elapsed and total track time. At the bottom of the screen, an icon indicates UPnP. To view further information, press **Info**. Each time you press **Info**, another set of information is displayed, cycling through:

UPnP playback progress bar (default), album, codec/sampling rate, playback Buffer bar, today's date.

7. Using the "Play To" feature in Windows 7 to stream media

One of the new Windows 7 features includes a feature called "Play To" and this lets your PC running Windows 7 control M4+ to push media and use as a universal remote control for your media collection.

M4+ supports the industry standard DLNA (Digital Living Network Alliance) 1.5 digital media renderer. This allows you to "Play To" other devices around your home and combine media streaming with controlling a connected media receiver while streaming content to it from another Windows 7 PC on a home network.

Before you can use the "Play To" feature you need the set-up M4+ for Windows 7 streaming media.

7.1 Use "Play To" in Windows Media Player

Windows Media Player makes it easy to manage your media, find items that you want to play, and open Play To. To select items that you want to play, follow these steps:

1. Click the Start button, click All Programs, and then click Windows Media Player.

If the Player is currently open and you're in Now Playing mode, click the Switch to Library button in the upper-right corner of the Player.

2. If the list pane is closed or if the Burn or Sync tabs are exposed, click the

Play tab.

3. Find the items that you want to play in the Player Library, and then drag those items From the details pane into the list pane.

4. Click the Play to button at the top of the list pane, click the device on your network that Will receive the media.

5. In the Play To dialog box, use the playback controls to play, pause, or stop the media stream, and to change to the next or previous item in the list.

7.2 Use "Play To" elsewhere in Windows 7

Outside of Windows Media Player, you can stream media to M4+ with "Play To" by right-clicking music files. To select music files and stream them to M4+, follow these steps:

1).Click the files you want to stream to M4+.

2).Right-click the selected files, point to "Play to", and then click the device on the network that will receive the media.

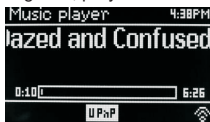
3). In the Play to dialog box, use the playback controls to play, pause, or stop the media stream, and to change to the next or previous item in the list.

7.3 Now playing information

While a track is playing, the screen shows its track name (UPnP). There is also a progress bar with figures for elapsed and total track time. At the bottom of the screen, an icon indicates UPnP. To view further information, press Info.

Each time you press Info, another set of information is displayed, cycling through the following:

Artist, album, codec/sampling rate, playback buffer



8. DAB radio mode

DAB radio mode receives DAB/DAB+ digital radio and displays information about the station, stream and track playing.

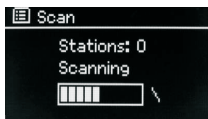
To enter DAB mode, either press Mode until the display shows DAB Radio or select;

Menu > Main menu > DAB.



8.1 Scanning for stations

The first time you select DAB radio mode, Or if the station list is empty, M4+ STEREO automatically performs a full scan to see what stations are available. You may also need to start a scan manually to update the list of stations for one of the following reasons:



Available stations change from time to time.

If reception was not good for the original scan (for example the antenna was not up), this may result in an empty or incomplete list of available stations.

If you have poor reception of some stations (burbling), you may wish to list only stations with good signal strength.

To start a scan manually, select Menu > Scan.

Once the scan is complete, the radio shows a list of available stations.

To remove stations that are listed but unavailable, select Menu > Prune invalid.

8.2 Selecting stations

To listen to or change a station, turn the **Select** control to view a list of stations and press to select. Once selected, the station plays and the screen shows information about the station, track or show as broadcast.

Presets

To store a DAB preset, press and hold **Preset** until the display shows the Save preset screen.

Select one of the 20 presets (on the remote) to save the currently playing station.

To select a preset, press **Preset** briefly, then select one of the listed preset stations.

When a preset station is playing, it shows ☆ 1,2,3 etc in the bottom middle of

the screen.

8.3 Now playing information

While the stream is playing, the screen shows its name and DLS (Dynamic Label Segment) information broadcast by the station giving real-time information such as programme name, track title and contact details. Stereo broadcasts are indicated with an icon at the top of the screen. To view further information, press **Info**.

Each time you press Info, another set of information is displayed, cycling through DLS text, programme type, ensemble name/frequency, signal strength/error rate, bit rate/codec/channels and today's date.

8.4 Settings

Dynamic range compression

Some DAB broadcasts offer dynamic range compression (DRC). This feature allows radios to compress the dynamic range of the output audio stream, so that the volume of quiet sounds is increased, and the volume of loud sounds is reduced. This can be useful if you are listening to music with a high dynamic range in a noisy environment (for example, classical music while cooking).

To change the DRC of the M4+, select Menu > DRC, and then DRC high, DRC low or DRC off.

Note: The M4+'s DRC setting does have any effect if DRC data is not included in the broadcast.

Station order

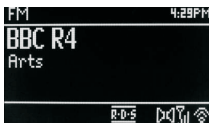
You can choose the order of the DAB station list to be either Alphanumeric, Ensemble or Valid. Ensemble lists groups of stations that are broadcast together on the same ensemble, for example BBC or South Wales local. Valid lists valid stations first, alphanumerically, then off-air stations.

To change station order, select **Menu** > Station order > then Alphanumeric, Ensemble or Valid.

9. FM radio mode

FM radio mode receives analogue radio from the FM band and displays RDS (Radio Data System) information about the station and show (where broadcast).

To enter FM mode, either press **mode** to choose FM Radio or select **Menu** > Main menu > FM.



9.1 Selecting stations

To find a station, press **Select**. The frequency display starts to run up as M4+ scans the FM band. Alternatively, you can scan up or down by pressing and holding the TUNE+ or TUNE- buttons or tune manually with quick presses, or by turning the Select control.

Presets to store an FM preset, press and hold button 1-5+ **Preset** until the display shows the Save preset screen. Select one of the 20 presets to save the currently playing station.

To select a preset, press Preset briefly, then select one of the listed Preset stations. When a preset station is playing, it shows ☆1,2,3 etc in the bottom middle of the screen.

9.2 Now playing information

While an FM station is playing, the screen shows one of the two following sets data:

If RDS information is available, by default the service name (i.e. station name) is displayed.

You can cycle through further RDS information by pressing **Info**. Each time you press **Info**, another set of information is displayed, cycling through RDS radio text, RDS programme type, frequency and today's date.

If no RDS information is available, the currently tuned frequency is shown.

9.3 Settings

Scan settings

By default, FM scans stop at any available station. This may result in a poor signal-to-noise ratio (hiss) from weak stations. To change the scan settings to stop only at stations with good signal strength, select **Menu** > Scan setting > Strong stations only? > Yes.

Audio settings

By default, all stereo stations are reproduced in stereo. For weak stations, this may result in a poor signal-to-noise ratio (hiss). To play weak stations in mono, select **Menu** > Audio setting > FM weak reception: Listen in mono only > Yes.

10. AUX mode

Aux in mode plays audio from an external source such as an MP3 player.

To play audio with Aux in mode,

- 1). Connect the external audio source to the Aux In 3.5 mm stereo socket.
- 2). Either press **Mode** until the display shows AUX in or select **Menu**>

Main menu > AUX in.

3). Adjust the volume of M4+ (and, if necessary, the audio source device) as required.



11. Bluetooth mode

Prior to pairing, verify your device supports Bluetooth 4.0+EDR A2DP and your device is not connected to any other Bluetooth product. Devices may pair differently. Below is a general guide.

1. Press to source to Bluetooth mode. This will power on the Bluetooth. Turn the volume up about $\frac{1}{4}$ to start. Also turn up the volume on the source device (the device you are streaming from).
2. Turn on the Bluetooth on your enabled device.
3. Select Bluetooth device name "LEMEGA M4+" when it appears on your device's screen to initiate searching.
4. You can start to play your music files wirelessly. Adjust the volume level on your device.

You should not have to pair your device again.

Depending on your device, you may need to make multiple attempts at Pairing and/or Connecting to the "LEMEGA M4+", but please give your device adequate time to Pair or Connect before repeating the process.

Pairing a Bluetooth Wireless Technology Enabled iPhone /iPod touch/iPad

1. Press source to select Bluetooth mode. This will power on the Bluetooth. Turn the volume up about $\frac{1}{4}$ to start. Also turn up the volume on the source device (the device you are streaming from).
2. Select "Settings". (Depending on software version)
3. Select "General".
4. Select "Bluetooth".
5. Switch Bluetooth "On" to initiate searching.
6. Select "LEMEGA M4+" when it appears on the display.
7. You can begin playing your music files wirelessly once the BT logo is stop flashing at the bottom right of the display.(means connected successfully)

Adjust the volume level on your device. You should not have to pair your iPhone/iPod/iPad again. The volume output level of music files varies.

If you prefer an even higher output level, check the settings in your iPhone/iPod touch/iPad:

Set the EQ Off, the Sound Check Off, and the Volume limit Off. If you encounter a problem Pairing, press the small arrow to the right of "LEMEGA M4+" on your iPhone/iPod touch/iPad display and select "Forget this Device", then repeat the Pairing process. Depending on your device.

You may need to make multiple attempts at Pairing and/or Connecting to the M4+, but please give your device adequate time to Pair or Connect before repeating the process.

12. CD Playback

Notice! Improper operation can result in material damages!

Do not insert any recording media that deviate from the standard CD format (eg: mini-discs) into the CD player. These may not be played and ejected correctly. Insert only one disc at a time into the CD player.

Insert a disc (with printing side facing up) until it is drawn inside. The CD player will automatically load the CD and start playback.

The display will say "Loading". Disc functions will not work while the disc is loading. Playback will begin automatically once the table of contents is read. The display will show "No Disc" when the unit is set to CD mode and there is no CD inside.

Insert the CD into the CD slot with the label side up, The display shows the following information in CD mode:

- CD mode
- Time
- Elapsed playback time in minutes
- Track number
- Payback status(playing/pause)

To pause/resume playback of the CD, press the button. ►||

To switch to the next track, press the button once. ►►

To fast forward through a track, press and hold ►►

To switch to the previous track, press and hold ◀◀

To fast backward through a track, press and hold ◀◀

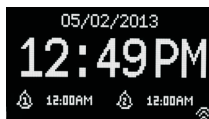
To stop CD playback, press ■▲

Adjusting CD playback, You can choose different playback sequences to play tracks by press PRG on remote control. Press the menu button to open the CD

menu for system settings.

13. Alarms and sleep

As well as a clock/calendar, there are two versatile wake-up alarms with snooze facility, and a sleep function to turn the system off after a set period. Each alarm can be set to start in a particular mode.



13.1 Alarms

To set or change an alarm, either press Alarm or select **Menu > Main Menu > Alarms**.

Select the alarm number (1 or 2) then configure the following parameters:

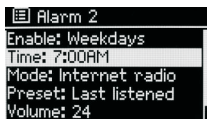
- Enable: on/off,
- Frequency: Daily, Once, Weekends or Weekdays,
- Time,
- Mode: Buzzer, Internet radio, DAB, FM, CD
- Preset: Last listened or 1-20,
- Volume: 0 - max.

To activate the new settings, scroll down and select Save.

The screen shows active alarms with an icon at the bottom left.

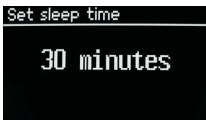
At the set time, the alarm will sound. To temporarily silence it, press **Snooze**.

You can change the snooze period with the **Select** control if you like. The radio returns to standby for the set period, with the silenced alarm icon flashing.



13.2 Sleep

To set the sleep timer, select **Menu > Main menu > Sleep** then choose from Sleep OFF, 15 MINS, 30 MINS, 45 MINS or 60 MINS.



Once you select a sleep period, the system returns to the main menu.
Press **Menu** to return to the Now playing screen.

14. Software upgrades and factory reset

14.1 Software upgrade

From time to time, M4+ may make software upgrades available with bug fixes and/or additional features. You can either check manually, or set M4+ to check periodically automatically (this is the default). If M4+ detects that newer software is available, it asks if you want to go ahead with an update.

If you agree, the new software is then downloaded and installed. After a software upgrade, all user settings are maintained.

CAUTION: Before starting a software upgrade, ensure that M4+ is plugged into a stable mains power connection. Disconnecting power during a software update may permanently damage the unit.

To turn automatic checking on or off, select Menu > System settings>Software update >Auto-check setting.

14.2 Factory reset

A factory reset resets all user settings to default values, so time/date, network configuration and presets are lost. However, the radio's current software version is maintained, as is registration with the Internet radio portal. Internet radio favorites therefore remain unless you re-register your radio with another account on the portal website.

To perform a factory reset, select Menu > System settings > Factory reset proceed >Yes.

15. Troubleshooting and error messages

15.1 Error messages

Messege	Description	Example
Failed to connect	Correct key entered, But router rejects request	MAC filtering enabled on router
Format error	Cannot recognise file format -independent of network	Received .wma, but found that the stream wasn't WMA when trying to decode
Network error	Problem past router - incorrect data being received from network	Data obtained from server is unreadable. when trying to decode
Network not ready	Problem with connection to router	Router switched off
Network timeout	Problem past router – no response being received from network	Streaming IR station and suddenly station becomes unavailable
No UPnP media found	No UPnP servers found from network	
Service not available (DAB)	No DAB reception	
No USB device found		Trying to access USB menu, but no USB plugged in
Unauthorised	Access not granted by UPnP server	Allow access for M4+ in UPnP server settings
Update failed	Software upgrade failed	
USB device unsupported	Unsupported USB device plugged in.	
USB error	General USB problems	
USB read error	Unable to read particular data from memory	Bad memory sector found on USB device
USB underpowered	Power failure to USB device- user have to remove the device	
Waiting for Users	Spotify mode - No Spotify account credentials available on the M4+ audio system. Connect to the audio system using a Spotify Connect account.	

Messege	Description	Example
'Press Play...'	Spotify mode – Waiting for playback information; for example, when the audio playback is moved by the Spotify app to a different audio speaker or the smart device itself.	

15.2 Troubleshooting

Problem	Cause	Solutions
FM: Hiss DAB: burbling/ intermittent cut-out	Low signal strength	Check/move antenna Move radio Rescan local (high-strength) stations only For DAB, check local coverage at www.ukdigitalradio.com/coverage
'DAB:'No stations available' message'	Low signal strength	As above then rescan stations.
'Cannot connect to network	Network down	Check that network is working between a computer and the router
	Router restricts access to listed MAC addresses	Obtain the M4+ MAC address from Menu < System settings > Network > View settings and add to router list. Note: M4+ has separate MAC addresses for wired and wireless networks only the current network adaptor method address is displayed, but the other address can be obtained by changing the first pair of digits between '00'(wireless) and '02'(wired)

Problem	Cause	Solutions
'Cannot connect to network	Insufficient Wi-Fi signal strength	Check distance to router; see if a computer can connect to the network in this location
	Unknown encryption method	Change encryption method on router. M4+ supports WEP, WPA and WPA2
	Unusual network configuration	Setup network manually through Menu> System settings > Network >Manual settings
	Firewall preventing access	Check the following ports are open on the router: UDP and TCP ports 80 and 123; DNS port 53. Windows shares:ports 135-139 and 445. Windows Media Player: varies- non-Microsoft firewalls may require configuration for UPnP.
'Cannot connect to Internet	Internet connection down	Check that Internet is working for a computer connected to the same network
	Firewall preventing access	Check the following ports are open: UDP and TCP ports 80 and 123; DNS port 53. Some Internet radio stations may require additional ports to be opened.
'Cannot play particular Internet radio station	Station not broadcasting, overloaded or insufficient bandwidth. Station broadcasting using unknown codec. Link out of date.	Try other stations; try listening on computer via Internet radio portal website; try later.

Problem	Cause	Solutions
'CD playback does not start	CD format is not compatible	Insert a different CD into the CD slot
	CD is damaged	Insert a different CD into the CD slot
	CD is dirty	Clean the CD
	CD is upside down in the CD slot	Eject the CD and insert it in the CD slot the right way up

16 Technical Specification :

Model:	M4+ Wireless Streaming Music System
Type:	CD/ WiFi/DLNA/Spotify/Internet radio/DAB/DAB+/FM/AUX/ Bluetooth Music system
Speaker:	2 x 2.5" (full range), 1 x 5.25" woofer
Power:	RMS 30W
Power Supply:	100-240V mains supply
Dimension (mm):	350W x 124H x 215D
Weight:	4.8 KG

Specifications are subject to change without notice.

If you have any questions, problems or suggestions for improvement, don't hesitate to write us an email or give us a call.

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