

MULTIMATE PRO

User's Manual



INTERNET RADIO DAB / DAB+ / FM RDS USB READER / Bluetooth Remote APP / RS-232







CAUTION: TO REDUCE THE RISK OF ELECTRONIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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



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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

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Outward Appearance

Front:



Rear:



Included accessories:

1x FM Antenna Wire, 1x RCA Wire, 1x AC Power Cord, 1x 2.4G Antenna, 1x Remote Controller.

External Resources

To operate unit, following external resources are needed:

- A power source (AC 230 V mains supply)
- A wired (Ethernet) or 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*.
- A music library stored on the network or on a USB mass storage device (for *Music player* modes),
- An external audio source (for *Aux in* mode)

Connectors

Back:

- Audio out RCA
- Balanced audio out XLR
- Ethernet RJ45
- External (optional) power terminals
- Power 230v IEC
- Radio antenna IEC
- RS-232 DB9
- Wifi / Bluetooth antenna SMA
- Earth ground screw

Front:

- Headphones out
- Line in

Features

- Internet Radio with access to over 20,000 stations, 'Listen again' broadcasts and podcasts
- Music player allowing easy navigation and playback through a USB or network-stored library of music `files including AAC/AAC+, MP3, WMA, WAV
- "Play To" feature allowing media to be pushed from a PC running Windows 7 to the unit operating in Digital Media Renderer (DMR) mode
- DAB/DAB+ digital radio with a wide choice of channels and digital quality sound broadcast
- FM with RDS (Radio Data System)
- Aux in for external music sources such as MP3 players
- Bluetooth
- Spotify Connect™
- Large 2.7 inch display for easy control and clear information display, with up to six lines of text plus status icons
- Infrared remote control
- Remote APP
- RS232
- Clock with auto-update capability and dual independent alarms
- Sleep/snooze
- Multiple network profiles for easy setup
- 13 languages operating

1 Controls

Panel controls

Button	Function		
CONTROL SELECT ENTER	Turn to scroll through a menu of station list. The chosen option is highlighted in reverse text (dark characters on a white background) Press to select.		

Button	Function		
ST.BY	Turn on or back to standby mode (showing clock and date). Cancels sleep function.		
MENU	Menu: Show menu for the current mode. Press again to show <i>Now playing</i> screen.		
MODE	Cycle through the modes: Internet Radio, Podcasts Music player, DAB, FM, Aux in Bluetooth		
MUTE	Mute audio output.		
VOLUME	Increase or decrease volume level.		
PRESET	Press for the Preset recall/Save menu; Scroll up/down to select the preset number then press 'Select' to confirm. There are 10 presets each for Internet radio, DAB and FM		
INFO	View more information about the station or track playing. Press again to cycle through further information screens then return to the normal <i>Now playing</i> screen.		
BACK	Back to previous page		
REV	Select start of track, previous track or hold to scan down rewind.		
F.WD	Select next track or hold to scan up/fast forward.		
PLAY/II	Play / Pause		
REPEAT	Music player repeat songs.		
SHUFFLE	Music player shuffle songs.		
ALARM	Set time to start up the device		
SLEEP	Set time to turn off the device		

Remote control

The remote control operates in a similar way to the main keypad.



Button	Function
(b)	Standby: Turn on or back to standby mode (showing clock and date). Cancel sleep function.
SLEEP	Sleep/snooze: When playing, standby after a set time. When alarm is sounding, snooze for a set time.
ALARM	Enters alarm wizard, turns off alarm (when alarm is sounding) and toggles between alarms in standby.
MODE	Mode: Cycle through the modes: <i>Internet Radio, Music player, DAB, FM, Aux in, Bluetooth</i>
1	Set/recall preset 1 or 6.
2	Set/recall preset 2 or 7.
3	Set/recall preset 3 or 8.
PRESET	Preset: Press for the Preset recall/Save menu; Scroll up/down to select the preset number then press 'Select' to confirm. There are 10 presets each for Internet radio, DAB and FM modes.

4	Set/recall preset 4 or 9.		
5	Set/recall preset 5 or 10.		
SHIFT	Press Shift then Preset to access higher preset numbers.		
MENU	Menu: Show menu for the current mode. Press again to show <i>Now playing</i> screen.		
•	Up: Scroll up through a menu or station list.		
INFO	Info: View more information about the station or track playing. Press again to cycle through further information screens then return to the normal <i>Now playing</i> screen.		
•	Back.		
ENTER	Confirm the select		
>	Confirm the select		
REPEAT	Music player repeat song.		
•	Down: Scroll down through a menu or station list.		
SHUFFLE	Shuffle: Music player shuffle songs.		
(Fil	Play/pause/stop.		
- VOLUME	Decrease volume.		
+ VOLUME	Increase volume.		
MUTE	Mute.		
(4	Previous: Skip back (previous track).		
•	Rewind.		
••	Fast forward.		
(++)	Next: Skip forward (next track).		

Additionally, the infrared remote control functions can also be triggered via the RS-232 port, see the protocol commands at the end of this manual.

2 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

When text is too long to fit on the screen, it is first shown truncated, then, after a few seconds, slowly scrolls so that you can read it all.

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



As you cycle through the play modes using Mode, the unit shows a **splash screen** for each mode. After one second, the unit enters the selected mode and tries to start playing the last station or track that was playing in that mode. If this is not possible, the unit tries to connect to the selected source by scanning for stations, networks, or prompting for user input as appropriate.



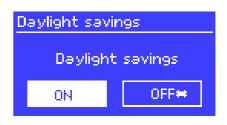
Now playing screens show information about the audio source and track now playing, where available.



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 password input screen.

As with menus, the selected item is shown with a white background.

Dialogue screens mark the current setting with an asterisk (*).



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



Menus

The unit has basically three types of menu. Use the Select control to step through and select options. A scroll bar on the right of the screen shows if there are further options above or below those visible.

Each mode has a **Mode menu**, with options specific to that mode. For example, the FM mode menu has just two 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.

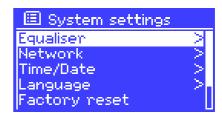
The **System settings menu** allows access to system settings and information such as network, time, language and software update.

Menus with more options than will fit on one screen have a scroll bar to the right.

The **Main menu** allows access to all modes plus sleep and timer functions.

Some menus, for example the *System settings menu*, have several submenus.







3 Getting started/setup

To set up the unit:

- 1. Place the unit on a suitable shelf or table
- 2. Connect the power adaptor between the unit and the mains supply.
- 3. To receive broadcast radio (DAB and FM), extend the telescopic antenna.
- 4. Power on the device.

3.1 Setup wizard

When the unit 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 the unit 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 when the unit 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 Time/date

The time and date can be updated manually or automatically. With auto-update, the time and date are automatically synchronized with external clocks. Auto-update is generally more accurate.

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 Frontier Silicon 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.

The unit 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

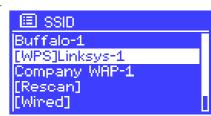
The unit is compatible with all common network protocols and encryption methods, including *Wi-Fi Protected Setup* (WPS).

To connect the unit to your network, you need one of the following:

- A wired router and an Ethernet (RJ45 network) cable
- 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.

To connect to a wired network, select **[Wired]**, after ensuring that the Ethernet cable from the wired router is connected to the Ethernet socket of the unit.



If the network is open (non-encrypted), the unit connects without any further ado; see *Completion* below.

Standard encrypted network

To enter the network's key (password), use the Select control to move the cursor through the characters and select. As each character is selected, the key is built up near the top of the display.

There are three options accessible by turning Select back before the first characters (0123...) –

Backspace, OK and Cancel.



WPS encrypted network

WPS encrypted networks are identified by '[WPS]' at the start of the network name, and have three methods of connection. Select one and follow the prompts:

Push Button >

The unit prompts you to press the connect button on the router. It then scans for a ready Push Button Connect network and connects.

- Pin > (code number)
 The unit generates an 8-digit code number which you enter into the wireless router, access point, or an external registrar (e.g. advanced versions of Windows Vista).
- Skip WPS >
 Enter key as for a standard encrypted network, above.

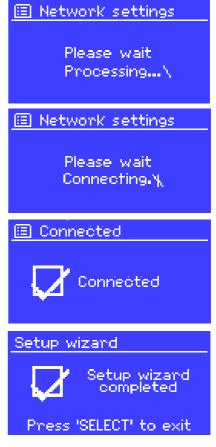


For more information on setting up a WPS encrypted network, see your WPS router's instructions.

Completion

The unit tries to connect to the selected network.

If connecting fails, the unit returns to a previous screen to try again.



If the network connection is lost, the unit automatically tries to reconnect.

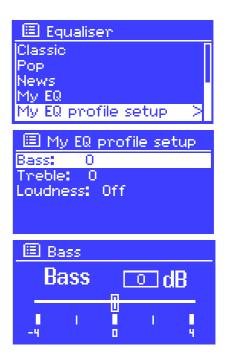
3.2 Common settings

3.2.1 Equaliser

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

To adjust the EQ, select Menu > System settings > Equaliser.

You can then choose from a variety of preset modes or create your own, with custom bass, treble and loudness settings.



3.2.2 Streaming Audio Quality

- Low quality
- Normal quality
- High quality

Select the desired level of audio quality for the available streaming services. The actual bit rate for each stream depends on the service being used.

3.2.3 Network

The unit 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.

3.2.4 Time/Date

- Set Time/Date
- Auto Update
- Set Format

Set Time/Date

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

Auto-update (from DAB FM or Network)

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

Set format

Allow you to change between 12 and 24 hour display.

3.2.5 Inactive standby

Allow you to set designated time when device is non-working will automatically switch to Standby mode. (Off, 2 hours, 4 hours, 5 hours, 6 hours)

3.2.6 Language

The default language is English. To change, select Menu > System settings > Language > then select your language. (Language selection: English / Danish / Dutch / German / Italian / French / Spanish / Finnish / Norwegian / Portuguese / Turkish / Polish / Swedish)

3.2.7 Factory Reset

Resets all settings to default values, so time/date, network configuration and presets are lost. However, the radio's current software version is maintained.

Select Menu > System settings > Factory reset > Yes.

3.2.8 Software update

Upgrades may available with bug fixers and/or additional features. You can either check manually, or check automatically.

To turn automatic checking on or off

select Menu > System settings > Software update > Auto-check setting

3.2.9 Setup Wizard

Allow you to run the setup wizard at any time, the wizard guides you through the essential settings in the following order:

- 1. Date/Time Set format
- 2. Auto update select clock update source or No update
- 3. Set Time/Date (this step is only needed if the "No update" option is selected in Auto update)
- 4. Network wizard automatically runs

3.2.10 Info

Shows details of the current system. Menu > System Setting > Info

- SW Version: Software version number
- Radio ID: Unique code used to identify this particular radio device. A label shows Radio ID is also placed at rear panel.
- Friendly name: Name by which the radio is identified on a network

3.2.11 Privacy Policy

Guiding you to website for full details:

Please visit the following page on a PC or mobile device. www.frontiersmart.com/privacy

3.2.12 Backlight

Display can be set to dim, when in Standby, after a timeout period. This option allows you to set the timeout period and the brightness settings before (On level) and after (dim level) the time out period.

For On level, High, Medium and Low, plus an Auto setting are available
For dim level, Medium, Low and Off, plus an Auto setting are available
Shows details of the current system includes Radio ID: Unique code used to identify this particular radio device. A label shows Radio ID is also placed at rear panel..

4 Internet radio mode

The unit can play thousands of radio stations and podcasts from around the world though a broadband Internet connection.

When you select Internet radio mode, the unit contacts the Frontier Silicon Internet radio portal to get a list of stations, organised into different categories like Country, Most popular and Genre. Once you select a station, the unit 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 chip based radios, you can register them all on the same account so that each radio has access to your favourites lists. It is possible to add favourites either directly through the unit 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 the unit is connected to the Internet. Station lists and submenus may change from time to time.

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 10 presets to save the currently playing station.

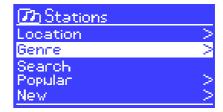
To select a preset, press Preset briefly, then select one of the listed preset stations. When a preset station is playing, it shows Pn (P1, P2 etc) in the bottom of the screen.

Note: Operation of presets is identical for Internet radio, DAB and FM.

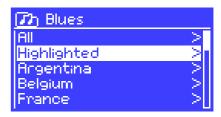
4.3 Browse

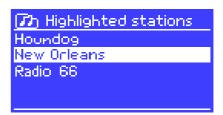
To browse Internet broadcasts, select Menu > **Station list >** then either **Stations >** or **Podcasts >**.

Browse through the menus to find broadcasts.











4.4 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.





4.5 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)
- Station description
- Station genre and location
- Signal reliability
- Codec and sampling rate
- Playback buffer
- Today's Date

5 Music player mode (USB)

Music player mode plays audio files such as MP3s, AACs, WMAs or FLACs from a USB Flash stick or a hard drive.



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 **USB playback**.



If you are already playing a music file, you can press Back rather than Menu 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 . 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.

5.1 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**.

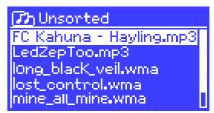
Browsing folders

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 and a long press adds the track to the playlist. You can also add entire folders to the playlist.

The unit plays either the selected track or the playlist.





Viewing track metadata

While a track is playing, you can view extra information about it (metadata) by pressing Info. Each time you press Info, a different item of metadata is displayed.



5.2 Playlists

The unit holds a queue of up to 200 tracks in the playlist. To manage the playlist, select Menu > **My playlist**.

Long pressing **SELECT** the current track to added to or erase from **My playlists.**

- To view the playlist, scroll though it by turning Select. USB tracks show their file name.
- To play the playlist from a certain track, quick Select.
- To erase a track from the playlist, long Select. then confirm YES.

The playlist is also preserved during standby.



5.3 Repeat/shuffle

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

6 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**.



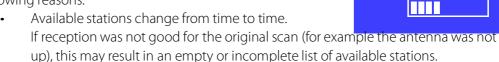
Stations: 21

Scanning

Scanning

6.1 Scanning for stations

The first time you select DAB radio mode, or if the station list is empty, the unit 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:



• If you have poor reception of some stations (burbling), you may wish to list only

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**.

6.2 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 10 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 Pn (P1, P2 etc) in the bottom right of the screen.

6.3 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.

6.4 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 unit, select Menu > DRC, and then DRC high, DRC low or DRC off.

Note: The unit 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.

7 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 until the display shows FM Radio or select Menu > Main menu > FM.



7.1 Selecting stations

To find a station, press Select. The frequency display starts to run up as the unit scans the FM band. Alternatively, you can scan up or down by turning or long press the Select control.

Presets

To store an FM preset, press and hold Preset until the display shows the Save preset screen. Select one of the 10 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 Pn (P1, P2 etc) in the bottom right of the screen.

7.2 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.

7.3 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.

8 Bluetooth mode

Bluetooth mode let you play audio from your mobile.

Turn on your mobile's Bluetooth link, search the device's name as shown in display.

etooth Discoverable
Please connect with a device to:
Multi Tuner

Once it connected, LCD will show current playing music from mobile.



Aux in mode 9

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

To play audio with Aux in mode,

- 1. Turn the volume low on both the unit and, if adjustable, the audio source device.
- 2. Connect the external audio source to the Aux In 3.5 mm stereo socket. Either press Mode until the display shows AUX in or select Menu > Main menu > AUX in.
- 3. Adjust the volume of the unit (and, if necessary, the audio source device) as required.

10 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.

To set the clock/calendar, see Getting started/setup.



10.1 **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: Adjust as desired
- Mode: Buzzer, Internet radio, DAB, FM
- Preset: Last listened or 1-10,
- **Volume**: 0 20.

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 SLEEP. 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.





Mode: Internet radio

Preset: Last listened

🗏 Alarm 1

Enable: Daily Time: 7:30AM

Volume: 6

Auxiliary input

Audio In

13:54

10.2 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.

11 UNDOK

IOS and Android remote control application



Frontier Silicon's UNDOK App is an application for IOS and Android Smart Devices that allows users to control Venice 6.5-based audio units running, IR2.8 or later, software.

Using UNDOK you can navigate between the speaker's listening modes, browse and play content remotely as well as manage Wi-Fi Multiroom groups of speakers.

The App also provides a convenient way to display RadioVIS content, on your connected Smart Device, for DAB/DAB+/FM digital radio units without a suitable display.

Connection is via a network (Ethernet and Wi-Fi) to the audio device being controlled.

Note: Control of Multiroom groups is not available via Ethernet. The UNDOK App runs on any iOS Smartphone or tablet running iOS 7 or later and Android Smartphone or tablet running Android 2.2 or later.

Note: For brevity, "Smart Device" is used in this guide to mean any Smartphone or tablet, iPad running a suitable version of IOS or Android operating system.

12 RS232 protocol commands

The communication between computer and unit is UART.						
Start bit : 1 Stop bit : 1 Code : HEX		Data bits : 8	Data bits:8			
		Parity bit : none Baud : 19200				
					Function	Code
STAND BY	0x01	ALARM	0x1B			
1	0x02	ENTER / TUNER SCAN	0x1C			
2	0x03	MODE	0x1D			
3	0x04	MENU UP / TUNNIG UP	0x1E			
4	0x05	MENU DOWN / TUNNIG DOWN	0x1F			
5	0x06	AUTO SCAN UP	0x20			
6	0x33	AUTO SCAN DOWN	0x21			
7	0x34	LEFT (BACK)	0x22			
8	0x35	RIGHT	0x26			
9	0x36	REPEAT	0x27			
10	0x37	SHUFFLE	0x2A			
M1	0x07	PLAY / STOP	0x2B			
M2	0x0A	VOLUME -	0x2C			
M3	0x0B	VOLUME +	0x2D			
M4	0x0E	MUTE	0x2E			
M5	0x0F	PREV	0x2F			
M6	0x3A	F.B	0x30			
M7	0x3B	F.WD	0x31			
M8	0x3C	NEXT	0x32			
M9	0x3D	INTERNET RADIO Mode	0x3F			
M10	0x3E	MUSIC PLAYER Mode	0x40			
SHIFT	0x15	DAB Mode	0x41			
PRESET	0x17	FM Mode	0x42			
SLEEP	0x18	AUX IN Mode	0x43			
MENU	0x19	PODCAST Mode	0x44			
INFO	0x1A	BT Mode	0x45			