

Pinell of Norway



User Manual

SUPERSOUND 101

DAB/DAB+ / FM / Internet Radio / Podcasts / Bluetooth

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.
- 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.

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Features

This manual describes how to use the Supersound 101, 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 Wi-Fi streaming 'Listen again' broadcasts and podcasts

Podcasts from a wide range of broadcasters

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.

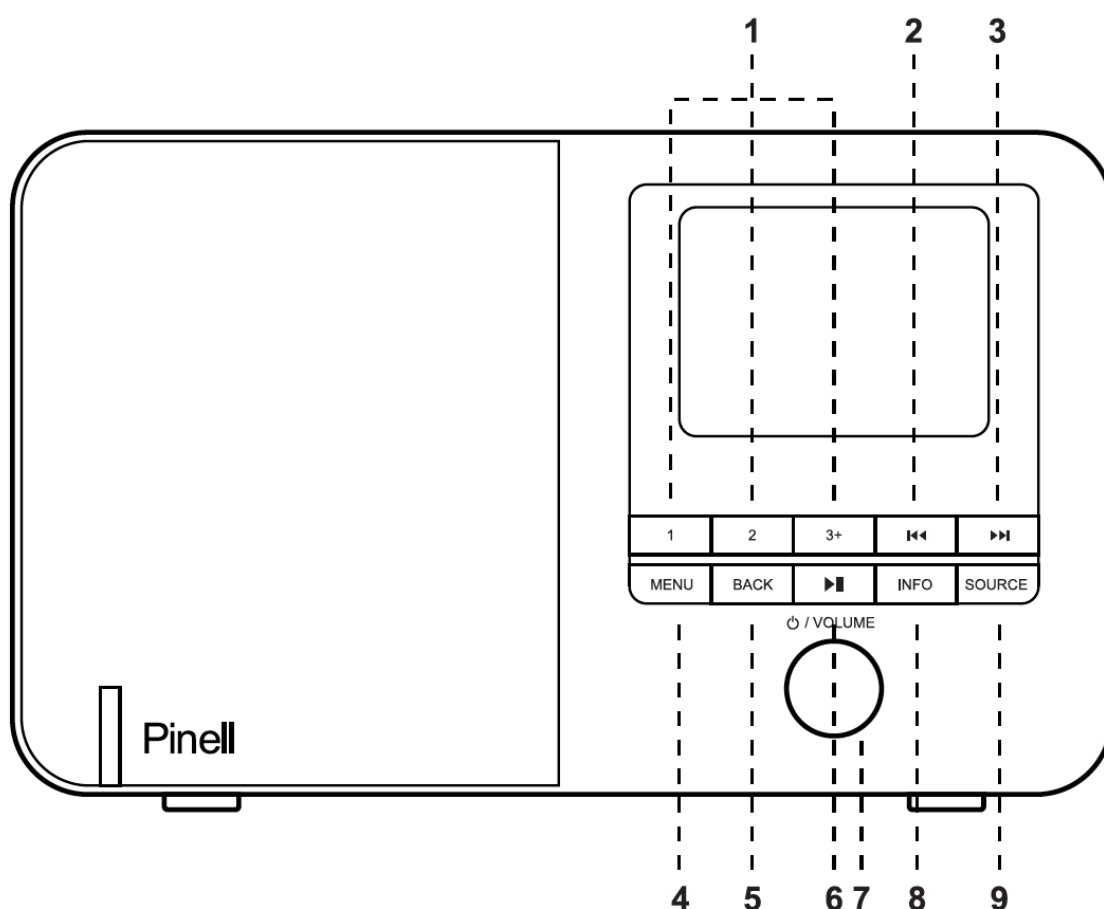
Carton contents

Carefully remove your radio from the packaging. You can keep the packaging for later use:

- 1x Supersound 101 unit
- 1x DC5V USB charging cable and power adapter

Controls, connectors and display

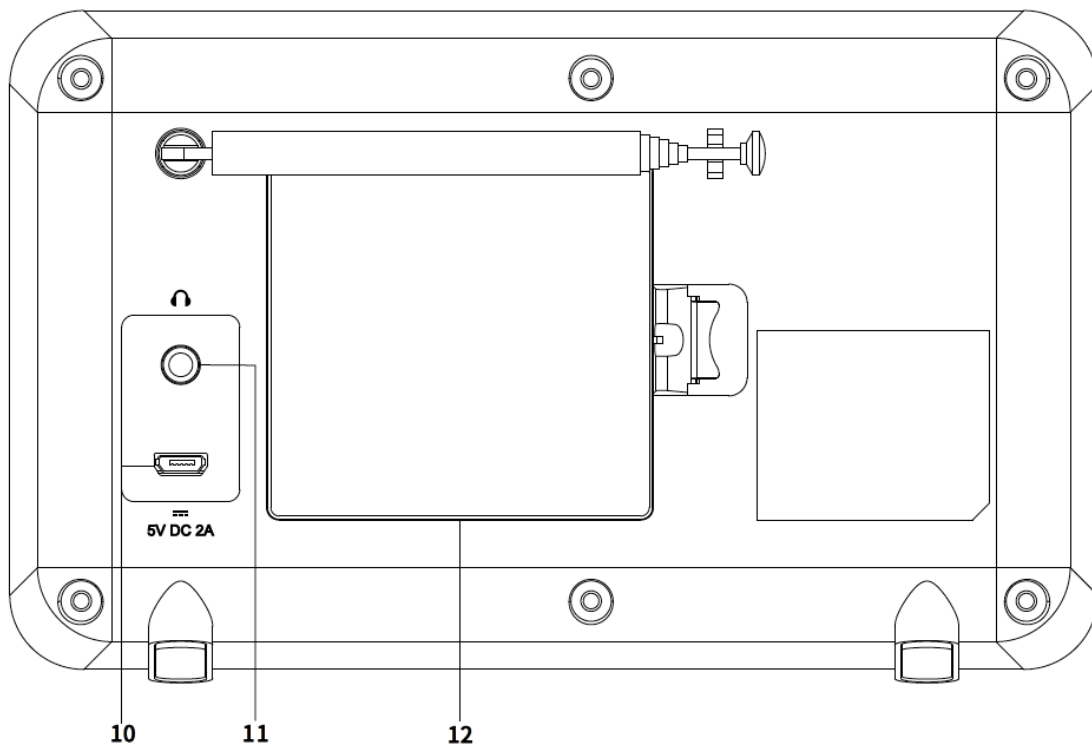
Main controls



- 1 **PRESET** - Long press button 1, 2, 3+ to preset and save your favorite stations. You can save up to 20 stations by long press 3+ and rotate **SELECT** to choose the position. The short press to store.
Short press 1, 2, 3+ to select the favorite station to play or Preset recall.
- 2 **⏮** - Previous: Press to select the previous track in Bluetooth and Internet radio mode.
- 3 **⏭** - Next: Press to select the next track in Bluetooth and internet radio mode.
- 4 **MENU**: press MENU to show the menu for the current mode. Press again to show now playing screen.
- 5 **BACK** - Press to return to the previous screen.
- 6 **▶ II** - Press to select Play/Pause under BT mode.
- 7 **SELECT/ SNOOZE/POWER/VOLUME**:
 - a. **Power** - Turn on or back to standby mode (showing clock and date), cancel sleep, or cancel alarm function.
 - b. **VOLUME** - Rotate to adjust the volume up or down during playback.
 - c. **MUTE** - Press to mute the music when playing.

- d. **SELECT** - Rotate to scroll through a menu or station list. Press to select the chosen option. Press and hold to auto scan DAB/FM stations.
- e. **SNOOZE** - Press to snooze a set time when alarm sounding.
- 8 **INFO** - View more information about the station or track playing. Press again to cycle through further information screens then return to the normal playing screen.
FULL SIDESHOW: Press and hold INFO button to switch DAB normal playing screen image to full screen slide show image.
- 9 **SOURCE** - Press this button, rotate and press **SELECT** to select the desired mode (Internet radio, Podcasts, DAB, FM and Bluetooth).

Connectors



- 10 DC power in (5V)
- 11 Headphones out
- 12 Battery compartment

Getting started

Supersound 101 is easy to use. To play DAB or FM radio, all you need is a power source (batteries or 100-240V mains supply). For Internet radio and Podcasts, you also need a broadband Internet connection.

Setup Wizard



When Supersound 101 is started for the first time, it runs through a setup wizard to configure settings for date/time and network.

To change these settings later, select **MENU > System settings >** and select the required settings option(s).

To run the setup wizard again, select **MENU > System settings > Setup wizard**.

The Network settings can be reset later manually running the Network wizard, select **MENU > System settings > Network > Network wizard**.

Note: If power is removed while the wizard is in progress, the wizard will run again next time Supersound 101 is started.

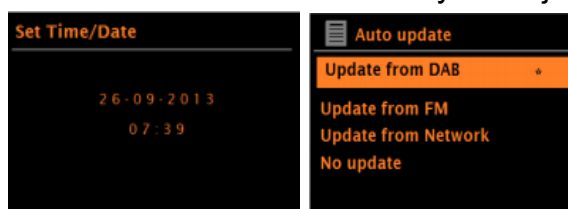
12/24 hour display

To change between 12 and 24 hour display, select **Time/Date > Set format** and then select your preference.

Set Time/Date

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

Adjust each value by turning 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 network. 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.

Supersound 101 will auto-update from the selected Mode when time information is available.

Network

Supersound 101 is compatible with all common network protocols and encryption methods, including Wi-Fi Protected Setup (WPS).

To connect Supersound 101 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), Supersound 101 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.

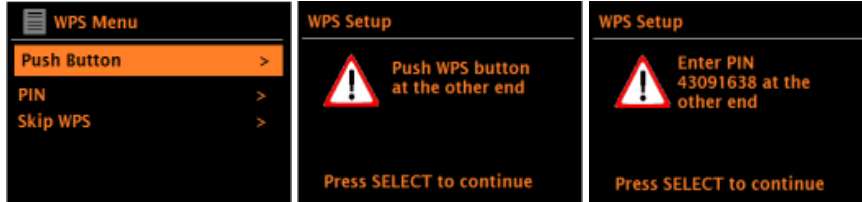
The three options – Backspace, OK and Cancel are included in the election loop.

These can be accessed just using the SELECT control, or, a short cut is available, pressing INFO, 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 >**

Supersound 101 prompts you to press the connect button on the router. Then press the **SELECT** control.

- **Pin > (code number)**

Supersound 101 generates an 8-digit code number which you enter into the wireless router, access point.

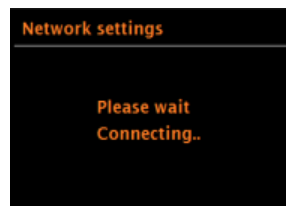
- **Skip WPS >**

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

Supersound 101 connects to the selected network.

If connecting fails, Supersound 101 returns to a previous screen to try again. To exit the process, press **BACK**.



Other settings

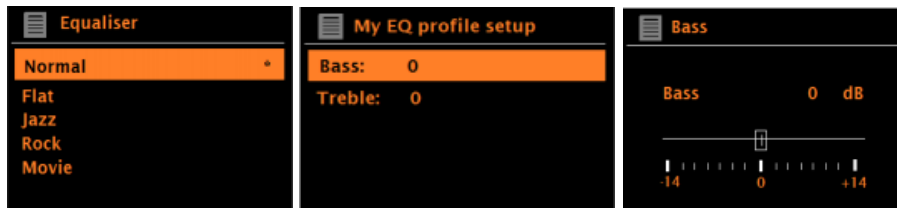
Equaliser

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

To choose an EQ setting, select **MENU > System settings > Equaliser**.

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.



Network

Supersound 101 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.

Language

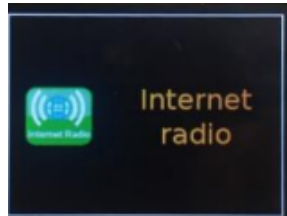
The default language is English. To change, select **MENU > System settings > Language** > then select your language.

Internet radio mode

Supersound 101 can play thousands of radio stations and podcasts from around the world through a broadband Internet connection.

When you select Internet radio mode, Supersound 101 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, Supersound 101 connects directly to that station.



To enter Internet Radio mode, press **SOURCE** > turn **SELECT** until the display shows **Internet Radio** > press **SELECT** to select.

Note: The station list menu is provided from the Internet radio portal, so it is only accessible when Supersound 101 is connected to the Internet. Station lists and submenus may change from time to time.

The Station list is organized into various categories and search facilities:

- <Country> This menu item is localized for each country, for example, 'UK', please update accordingly
- Search
- Location
- Popular
- Discover

Country

This menu item is localized for each country, for example, 'UK'.

Presents a sub-menu to search for stations using a variety of categories, for example, local stations, BBC stations, Genres or stations from a specific city.

Choose the required category and either a further list of sub categories is shown, or (if there are no further sub-categories) the available stations for the chosen category are listed.

History

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.

Search

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

To search, select **MENU** > **Search**.

Enter a keyword by selecting characters in turn, then **OK**.

The search entry screens are similar in operation to the Wi-Fi passphrase entry screen.

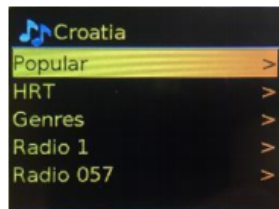


Select a broadcast from the list.

Location

To select an Internet broadcast from a particular location, select **MENU** > **Location** >. Select a continent from the menu and a list of countries available is presented, select a country and the available internet radio stations are presented.

Choose a radio station from the list to tune to that station.



Popular

Presents a list of the most popular internet stations from around the world.

Discover

Allows you to select from a list of stations defined by either their origin (Country), Genre (style of music) or language. Navigate through the category options; once you have made your selection a screen confirms your selected category and the number of stations within that category. To see the list, select the option showing the number of available stations.

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:

- Slogan (default; where available)
- Language/Location
- Codec and sampling rate
- Playback buffer
- Today's Date.

Podcasts mode



Supersound 101 can play thousands of podcasts from around the world through a broadband internet connection.

When you select Podcast mode, Supersound 101 contacts the Frontier Smart Technologies Podcast portal to get a list of available podcasts. Once you select a podcast, Supersound 101 connects directly to that podcast source.

To enter Internet Radio mode, press **SOURCE** > turn **SELECT** until the display shows **Podcasts** > press **SELECT** to select.

Note: The first time Podcast mode is selected (or no previous Podcast service has been selected), The user is taken directly to the Podcast list menu to find and select an podcast service.

Podcasts menu

- Last listened
- Podcast list
- System settings
- Main Menu

Last Listened

Presents a list of (up to) the last ten Podcasts that have been selected.

Podcasts List

If no previous internet radio service has been selected, the Podcast menu is automatically presented to find and select an Internet radio service.

The podcast list is provided from the podcast portal, so it is only accessible when Supersound 202 is connected to the internet. Podcast lists and submenus may change from time to time.

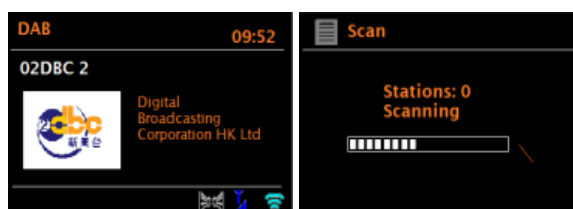
The podcast list is organized into various categories and search facilities:

- Local area - dependent on radio device's location.
- Search
- Location
- Discover

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, press **SOURCE** > turn **SELECT** control until the display shows **DAB radio**. Press **SELECT** to select the mode.



Scan for stations

The first time you select DAB radio mode, or if the station list is empty, Supersound 101 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**.

Selecting stations

To listen to or change a station, press **BACK** (or **⏪** or **⏩**) > turn **SELECT** control to view a list of stations and press **SELECT** to select. Once selected, the station plays and the screen shows information about the station, track or show as broadcast.

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 program 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, program type, ensemble name/frequency, signal strength/error rate, bit rate/codec/channels and today's date.

Slideshow

When slideshow is available (dependent on the broadcasted signal), the images are displayed on the left side of the screen. To cycle through the different display options (thumbnail, slide with DLS text and full screen slide) press and hold the **INFO** button.



Settings

Dynamic range compression (DRC)

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 Supersound 101, select **MENU > DRC**, and then DRC high, DRC low or DRC off.

Note: The Supersound 101'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 or Ensemble.

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, press **SOURCE** > turn **SELECT** control until the display shows **FM radio**. Press **SELECT** to select the mode.



Selecting stations

To find a station, press and hold **⏪** or **⏩**. The frequency display starts to run as Supersound 101 scans the FM band.

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 program type, frequency and today's date.
- If no RDS information is available, the currently tuned frequency is shown.

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.

Bluetooth mode

Prior to pairing, verify your device supports Bluetooth 4.2 and your device is not connected to any other Bluetooth product. Devices may pair differently. Below is a general guide.

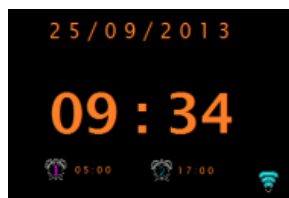
1. Press **SOURCE** > turn **SELECT** control until the display shows Bluetooth Audio. Press **SELECT** to select the mode. This will power on the Bluetooth. Turn the volume up about $\frac{1}{4}$ to start. Also turn up the volume on the smart device (the device you are streaming from).
2. Turn on the Bluetooth on your enabled device.
3. Select Bluetooth device name "PINELL 101" 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 "PINELL 101", but please give your device adequate time to Pair or Connect before repeating the process.

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.



Alarms

To set or change an alarm, select **MENU** > **System settings** > **Alarms**.

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

- Enable: Off, Daily, Once, Weekends or Weekdays
- Time : 00:00 (adjust as necessary)
- Mode: Buzzer, Internet radio, DAB, or FM
- Preset: Last listened or 1-20,
- Volume: 0 - max.

To save these settings and set the alarm, scroll down and select **Save**.

Note: If you press **BACK** or **MENU** to exit the Alarm settings without saving, a dialogue screen is displayed asking if you wish to save the changes or not.

The Now Playing, screen shows active set alarms with an icon at the bottom left.

The Standby screen shows active set alarms with an icon and the alarm time.

At the set time, the alarm will sound. To temporarily silence it, press SELECT. Pressing SELECT repeatedly cycles through the available snooze periods: 5 Mins, 10 Mins, 15 Mins, 30 Mins. The radio returns to standby for the set period, with the silenced alarm icon flashing and a countdown of the remaining snooze period. After the set snooze time the alarm will sound again.

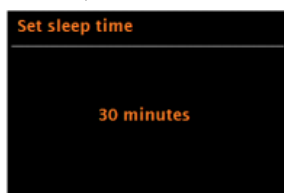
Note: During a snooze period, to change the snooze time, press SELECT to select a new snooze time.

Any remaining snooze time is reset to the selected time period.

To cancel a sounding alarm, or an alarm in snooze, press SELECT to turn off alarm.

Sleep

To set the sleep timer, select **MENU > System settings > Sleep** then choose from Sleep OFF, 15 MINS, 30 MINS, 45 MINS or 60 MINS.



Stop when the required time is displayed, after a brief moment the screen returns to the screen being used before the sleep function was selected. On the Now Playing screens the remaining sleep time is displayed at the bottom of the screen.

To cancel a sleep time, select Sleep OFF from the sleep options using either of the above methods.

Note: A sleep time is automatically cancelled if Supersound 101 is put into Standby.

Software upgrades and factory reset

Software upgrade

From time to time, Supersound 101 may make software upgrades available with bug Fixes and/or additional features. You can either check manually, or set Supersound 101 to check periodically automatically (this is the default). If Supersound 101 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 Supersound 101 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, press **MENU > System settings > Software update > Auto-check setting**.

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.

To perform a factory reset, press **MENU > System settings > Factory reset Proceed > Yes**.

Error Messages and Troubleshooting

Error messages

Message	Description	Example
Failed to connect	Connect key entered, but router rejects request	MAC filtering enabled on router
Format error	Cannot recognize 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.
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
Service not available (DAB)	No DAB reception	

Troubleshooting

Problem	Cause	Solutions
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 Supersound 101 MAC address from MENU > System settings > Network > View settings and add to router list.
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. Supersound 101 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 a 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.

Technical specifications:

Model: Supersound 101

Type: Portable Smart Radio

Speaker: 1 x 2,5" full range driver

Power: 3W RMS

Power Supply: 5V DC or 4 AA batteries

Dimension (mm): W 175 x D 71 x H 106 mm

Weight: 0,65 kg

Specifications are subject to change without notice.

This device complies with Part 1 5 of the FCC rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Technical Data - supplied Power Supply:

Manufacturer:	TT Micro AS Olaf Helsets vei 6 0694 Oslo, Norway	
Model number:	GQ12-050200-ZG	HT28-0502000EU
Input voltage:	AC 100-240V	AC 100-240V
Input frequency:	50/60Hz	50/60Hz
Output voltage:	DC 5V	DC 5V
Output current:	2A	2A
Output power:	10.0W	10.0W
Average efficiency in operation:	85.59%	85.59%
Low load efficiency (10%):	83.20%	83.20%
No-load power consumption:	0.1W	0.1W



This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. For more information, please contact the local authority or your retailer where you purchased the product.



TT Micro AS hereby declares that this device is in compliance with the following directives:
2014/53/EU (RED)
2011/65/EU (RoHS)

* Information in this manual is subject to change without notice.

Pinell is a label of TT Micro AS (www.ttmicro.no)
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