



# SA20

DIGITAL PORTABLE RADIO



 **steljes**  
audio





# SA20

## DIGITAL PORTABLE RADIO

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Beautifully engineered  
& designed in Great Britain



# IMPORTANT INFORMATION

## READ BEFORE OPERATING EQUIPMENT

Read all the instructions carefully before using the unit and keep them for future reference. Check that the voltage marked on the rating label matches your mains voltage.



### CORRECT DISPOSAL

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.



### ATTENTION

The owner's manual contains important operating and maintenance instructions, for your safety, it is necessary to refer to the manual.



### DANGEROUS VOLTAGE

Conductor dangerous voltage, that may be of sufficient magnitude to constitute a risk of electric shock to persons is present within this product's enclosure.

## LOCATION OF UNIT

- The unit must be placed on a flat stable surface and should not be subjected to vibrations.
- Do not place the unit on sloped or unstable surfaces as the unit may fall off or tip over.
- The mains socket must be located near the unit and should be easily accessible.
- Avoid extreme degrees of temperature, either hot or cold. Place the unit well away from heat sources such as radiators or gas/electric fires. Avoid exposure to direct sunlight and other sources of heat.
- Never place any type of candle or naked flame on the top of or near the unit.
- To reduce the risk of fire, electric shock or product damage, do not expose this unit to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, should be placed on the unit.
- If you spill any liquid into the unit, it can cause serious damage. Switch it off at the mains immediately. Withdraw the mains plug and consult your dealer.
- To prevent the risk of electric shock or fire hazard due to overheating, ensure that curtains and other materials do not obstruct the vents.
- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space, ensure that a minimum of 10cm should be kept around the apparatus for ventilation.

## SAFETY

- Always disconnect the unit from the mains supply before connecting/disconnecting other devices or moving the unit.
- Unplug the unit from the mains socket during a lightning storm.
- This unit will become warm when used for a long period of time. This is normal and does not indicate a problem with the unit

## MAINS CABLE

- Make sure the unit is not resting on top of the mains cable, as the weight of the unit may damage the mains cable and create a safety hazard.
- If the mains cable is damaged it must be replaced by the manufacturer, its service agent, or similarly qualified persons in order to avoid a hazard.

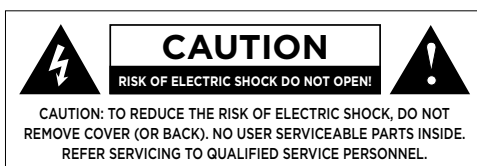
## INTERFERENCE

- The normal function of the product may be disturbed by Strong Electro Magnetic Interference. If so, simply reset the product to resume normal operation by following the instruction manual. In case the function could not resume, please use the product in other location.

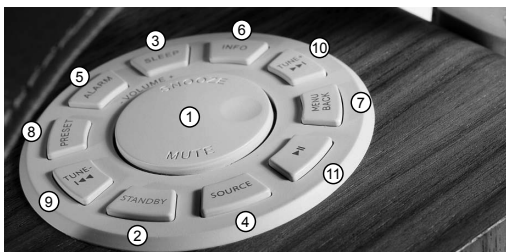
- This unit includes micro-processors which may malfunction as a result of external electrical interference/noise or electrostatic discharge. If the unit is not working properly, disconnect the power source and then reconnect it.

## SERVICE / MAINTENANCE

- To reduce the risk of electric shock, do not remove rear cover. The unit does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.
- Do not open any fixed covers as this may expose dangerous voltages.
- Ensure to unplug the unit from the mains socket before cleaning. Do not use any type of abrasive pad or abrasive cleaning solutions as these may damage the unit's surface. Do not use liquids to clean the unit.



# CONTROL



## 1.1 MAIN CONTROLS

1. **SELECT/ VOLUME/MUTE/SNOOZE:** Turn the scroll wheel to navigate through the menus or the station list. The chosen option will be highlighted in white and can be selected by pressing the scroll wheel. When pressed during playback the audio will be muted and when in alarm mode will activate the snooze function .
2. **STANDBY:** This will power on the SA20 or return it to standby mode. Can also be used to cancel the sleep and alarm function.
3. **SLEEP:** When alarm is sounding, allows you to set the snooze interval.
4. **SOURCE:** Press to scroll through the different source modes. DAB, FM, Aux and Bluetooth.
5. **ALARM:** Press and the screen will display Alarm 1 and Alarm 2. Use the scroll wheel to select either (fig1), select and set up the alarm as required.
6. **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.
7. **BACK/MENU:** BACK: Return to previous screen. MENU: Show menu for the current mode. Press again to show now playing screen.
8. **PRESET:** Press and hold to store your favourite stations, up to 10 available. Press to recall your stored favourites list.
9. **TUNE-/FM:** Previous: Press to select the previous station or track via Bluetooth mode. Press and hold for 2 seconds to perform auto scan for DAB/FM.
10. **TUNE+/FM:** Next: Press to select the next station or track via Bluetooth mode. Press and hold for 2 seconds to perform auto scan for DAB/FM.
11. **PLAY/PAUSE ►||:** Press to select Play/ Pause.

# CONNECTIONS

## 2.1 ANALOGUE

1. Aux in
2. Line out
3. Headphone out
4. DC in
5. Battery compartment (open compartment to find the Battery Power switch)



# DISPLAY

## 3.1 DISPLAY SCREEN

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

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

When the text is too long to fit on the screen, it is first shown truncated, then after a few seconds it will slowly scroll so that you can read it all. The Standby screen shows the time, date and any active alarm times as above.

As you cycle through the play modes using the source button, the SA20 shows a splash screen for each mode. After one second, the SA20 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 SA20 tries to connect to the selected source by scanning for stations, networks, or prompting for user input as appropriate.

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

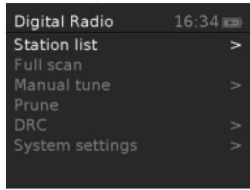
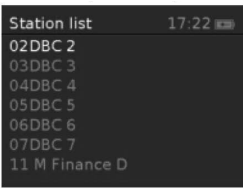
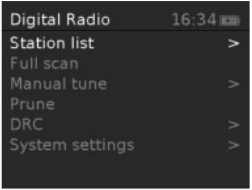
**Dialogue screens** are shown to allow the user to change settings.

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

## MENUS

The SA20 has 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.





# DISPLAY

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 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.

## GETTING STARTED AND SETUP

1. Place the SA20 on a suitable shelf or table.
2. Extend the telescopic antenna.
3. Connect the power adaptor between the SA20 and the mains supply.

## 12/24 HOUR DISPLAY

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

## TIME/DATE

The time and date can be updated manually or automatically

## AUTO-UPDATE TIME & DATE

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

## MANUAL SET TIME & DATE

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.

# OPERATION

## 4.1 DAB RADIO MODE

DAB radio mode receives DAB/DAB+ digital radio and displays information about the station and programme/track as broadcast.

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

### 4.1.1 SCANNING FOR STATIONS

The first time you use the SA20, or if the station list is empty, the SA20 will automatically perform a full scan. You may also need to start a scan manually to update the list of stations for one of the following reasons:

- New stations may become available 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 causing the audio to break up, you may wish to list only stations with good signal strength.

To do a full scan Select Menu > Full scan.

Once a scan is complete, the radio returns to playing the previously-selected station or first station on the station list.

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

### 4.1.2 PRESETS

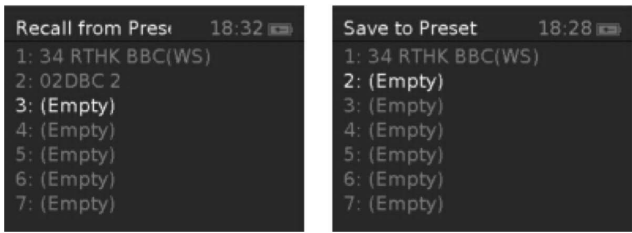
The SA20 has 10 presets available for DAB stations.

#### To store a station in a preset

Press and hold the preset button until the display shows a list of the 10 presets available - these as displayed as either 'empty' or with the currently stored station name. Select a preset then select once more to store the currently playing station.

# OPERATION

To recall a preset station  
Press preset and select one of the preset listed stations that you wish to listen to.



## 4.1.3 MANUAL TUNE

As well as the normal method of scanning, you can also manually tune to a particular channel/frequency. This can be useful for adjusting your antenna to achieve the best possible reception and scanning a particular channel to update the station list.

To manually tune  
Press Menu > Manual tune then use select control button to display a particular channel/frequency, press Select to tune to that channel/frequency. The display shows a live indication of the received signal strength on the selected frequency.



Adjustments to your antenna will be manifested in the received signal strength displayed.

Note: The division in the signal strength bar indicates the audio quality threshold - if the signal strength, as indicated by the solid rectangles, falls below this threshold the audio quality will deteriorate.

# OPERATION

When a channel/frequency is selected the SA20 also scans for any DAB stations on the selected frequency and updates the station list with any new stations found. To listen to any stations found, return to the now playing screen and select the required station from the station list as normal.

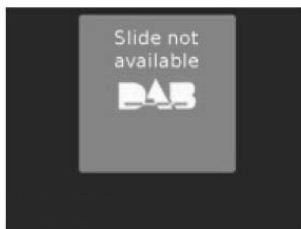
## 4.1.4 NOW PLAYING INFORMATION

While a station is playing, the screen shows its name and DLS (Dynamic Label Segment) information broadcast by the station such as programme name, track title and contact details.

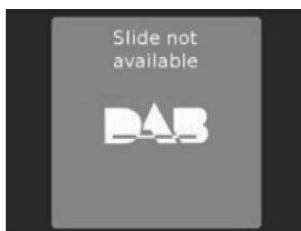
### Slideshow

The normal now playing screen shows a thumbnail of the currently available slideshow image. (If no slideshow image is available a default DAB thumbnail image is displayed). The Select button cycles through the following slideshow displays.

Slideshow image and DLS text being broadcast by the current station.

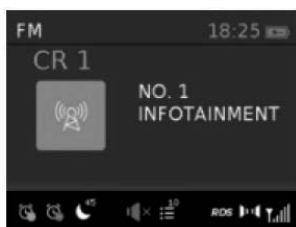
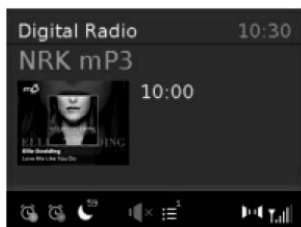


Full screen version of the slideshow image



# OPERATION

Normal now playing screen.



To view further information: Press Info .

Each time you press Info , the next set of information is displayed, cycling through: DLS text, DL Plus information (this is only displayed if broadcast by the station), programme type, ensemble name, channel number/frequency, signal strength, power status (Mains/Battery), and date.

Note: DL Plus presents additional information that can be broadcast by stations and stored temporarily on your radio.

To return to the default Now playing screen at any time, press and hold Info .

## 4.1.5 OTHER SETTINGS

Dynamic range compression (DRC)

This function reduces the difference between the loudest and quietest audio being broadcast. Effectively, this makes quiet sounds comparatively louder, and loud sounds comparatively quieter. Note: DRC only works if it is enabled by the broadcaster for a specific station.

To change the DRC setting: Select Menu > DRC > The options available are: DRC high | low | off.

# OPERATION

## 4.2 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 Mode until the display shows FM Mode

### 4.2.1 SELECTING STATIONS

The first time you select FM radio, the SA20 is set to the lowest frequency in the FM band. On subsequent selections the last used frequency/station is displayed.

**To scan for a station in FM mode:** Press Select. The SA20 scans up through the FM band frequencies, showing the current frequency on the screen display.

A scan stops when a signal is found. The SA20 can be set to stop at each station or only at stations with a strong signal. Alternatively, you can tune, using the select control button on the top or the left and right buttons on the IR remote control, in 50 kHz steps.

### 4.2.2 PRESETS

The SA20 has 10 presets available for FM, which work in the same way as DAB mode presets, as described earlier in section 4.1.3 Presets.

### 4.2.3 NOW PLAYING INFORMATION

While FM radio is playing, the screen shows its frequency, or if RDS information is available, station name and any further 'RadioText' information. . If no information is available, just the frequency and a No RadioText message is shown.

**To view further information about the broadcast:** Press Info .. Each time you press Info, the next set of information is displayed, cycling through: RDS Radio text, programme type, frequency, name, mono/stereo, power status, and date.

**To return to the default Now playing screen:** Press and hold Info .

# OPERATION

## 4.2.4 SETTINGS

### Scan settings

By default, FM scans stop at any available station (All stations). This may include poor quality audio from weak stations.

To change the scan settings, to stop only at stations with good signal strength: Select Menu > Scan setting then Strong stations only.

### Audio settings

By default, all stereo stations are reproduced in stereo. For weak stations, this may result in poor quality audio. The audio quality can be improved using mono.

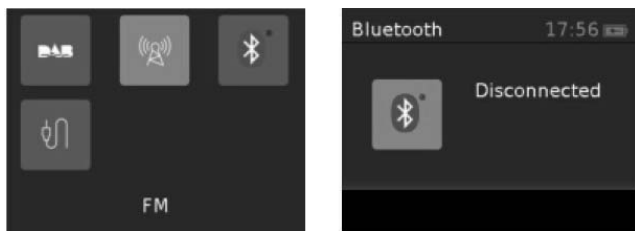
To play weak stations in mono: Select Menu > Audio setting > Forced mono.

## 4.3 BLUETOOTH

Bluetooth mode allows the SA20 to act as a wireless speaker playing audio content from a connected Bluetooth capable device.

To enter Bluetooth mode: Press source to choose Bluetooth mode

To connect a Bluetooth capable device:



Use your Bluetooth capable smart device to pair and connect with the SA20.

# OPERATION

## 4.3.1 DISPLAY INFORMATION

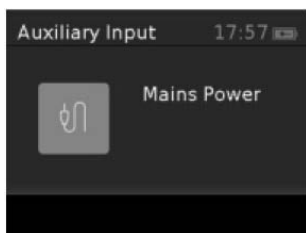
The screen displays either a connected or disconnected message depending on the connection state.

## 4.4 AUX IN MODE

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 SA20 and, if adjustable, the audio source device.
2. Connect the external audio source to the Aux In 3.5 mm stereo socket.
3. Press source until the display shows Auxiliary Input.
4. Adjust the volume of the SA20 (and, if necessary, the audio source device) as required.



### 4.4.1 NOW PLAYING INFORMATION

When in Aux In mode, the screen shows Auxiliary Input and the date.



# OPERATION

## 5 ALARMS SNOOZE 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 of time. The alarm sound for each alarm can use a buzzer or a selection from the audio sources.

To set the clock/calendar: The settings for the internal clock and setting Alarm, Snooze and Sleep function are all accessible via the Systems Setting menu.

### 5.1 ALARMS

Note: Alarms will only function when the SA20 unit is On (mains or battery power) or in Standby mode (Mains power only). Attempting to enter Standby mode when powered only by battery will turn the SA20 unit Off.

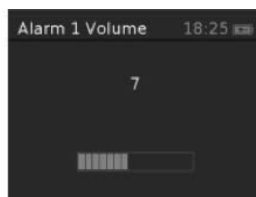
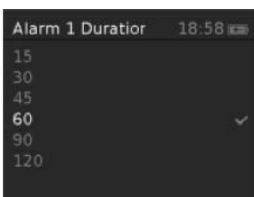
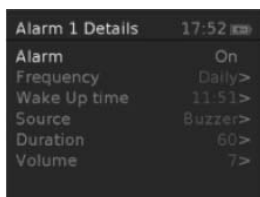
An active alarm is indicated by its icon in the bottom line of the display.

Note: Alarms can be switched on or off in standby mode (see below), however, the alarm parameters can only be set when the SA20 is on.

**To set alarms :** Press Alarm and use the Select control button to select the required Alarm 1 or 2 and press Select To accept the displayed alarm settings press Alarm

**To exit alarm setting mode,** press Menu or Back (alternatively, the Alarm display will timeout and automatically return to the Now Playing screen after a short time).

The alarm setup prompts you for the following parameters. Select a value for each parameter in turn turning the select control button and press Select to confirm and move on to the next parameter.



# OPERATION

## Alarm Parameters

- Alarm – Off | On
- Frequency – Daily | Once | Weekends | Weekdays
- Choose the days on which the alarm is active.
- Note: if you choose 'Once', you are prompted to enter the required date.
- On time – hours and minutes
- Source – Buzzer | DAB | FM  
If DAB or FM is chosen as the audio source you will also be prompted to select the last played station or one of the preset stations (if set).
- Duration – 15 | 30 | 45 | 60 | 90 | 120 minutes  
If the alarm is not cancelled the SA20 returns to standby after this time period.
- Volume – (use the TUNE-/TUNE+ button to set the required alarm volume 4-16)  
This is the volume the alarm will build up to. (Initially the alarm sounds at a low volume and gradually gets louder to the set volume).

In all listening modes active alarms are indicated by displaying the relevant Alarm 1 and/or Alarm 2 icons.

At the set time, the alarm will sound, quietly at first, then gradually building up to the set volume. When an alarm sounds, the icon in the display flashes.

To cancel a sounding alarm and switch that radio into standby, press either Standby or Alarm

## 5.2 SNOOZE

To temporarily silence a sounding alarm, press Sleep. You can change the snooze period by repeatedly pressing Sleep. Snooze periods are 5, 10, 15 and 30 minutes. The radio returns to standby for the set time period with a snooze countdown displayed. When the countdown reaches 0 (zero) the alarm is triggered again.

Press Standby or Alarm to fully cancel a sounding alarm and switch the radio to standby

# OPERATION

## 5.3 SLEEP

To set the sleep timer while the radio is playing: Press Sleep. You can choose the sleep delay time in minutes from: Sleep Off | 15 | 30 | 45 | 60 | 90 | 120

Use select control button to cycle through the options (or press Sleep repeatedly) then press Select to choose the displayed option. Once you select a sleep delay period, the display returns to the Now playing screen displaying a Crescent moon icon and the remaining time, in minutes, before the sleep time expires. After the sleep delay period the radio switches to standby mode.



# SYSTEM SETTINGS

## 6 SYSTEM SETTINGS

The System Settings allow you to tailor the SA20 with a variety of options to suit you.

**To access system settings from any mode:** Select Menu > System Settings >, then choose from the various options as described in the menu as below.

The System Setting Menu options are:

- Sleep • Alarm • Equaliser • Time/Date • Backlight • Language • Factory Reset
- Software upgrade • Software version

**To navigate through the menus:** The following controls are used to move about the menu tree to choose and select the required settings:

**Select** – (pressing the Select control button) this selects the currently displayed option, if the option has a further sub-menu the first option of the sub-menu is displayed. If the option is a setting value, the displayed value is selected and either the next setting is highlighted or, if there are no further settings, the display returns to the parent menu for that setting.

**Select control button** – cycles forwards and backwards through the current menu or setting options.

**Back** – jumps back to the parent menu of the currently displayed menu or setting.

Menu to return to the Now Playing screen

### 6.1 AUDIO OUTPUT

Presents the option to direct audio output to the built in speakers (Speakers) or the SPDIF port on the back of the unit (3.5mm stereo jack out).

### 6.2 EQUALIZER

This allows a number of preset settings plus a My Equaliser option to allow you to create your own equaliser settings.

My EQ... | Normal | Classic | Jazz | Pop | Rock | Speech

# SYSTEM SETTINGS

## 6.2.1 MY EQ

This option allows you to set a bias in the treble and bass audio frequencies and turn 'Loudness' On or Off. Values can be set between -7 (Minus 7) and +7 (plus 7).

**Treble** - (Use the select control button to choose a bias value between -7 and +7)

**Bass** - (Use the select control button to choose a bias value between -7 and +7)

**Loudness** - On or Off. (When On, low-level high and low frequency sounds are boosted to give a 'fuller' sound.)

## 6.3 TIME

The time and date can be updated manually or automatically. With auto-update, the time and date are automatically synchronised with national time signals broadcast over DAB and FM (where available).

You can also select the display format for the time and date. The time menu contains the following options:

- Set Time/Date - (see below)
- Auto update - Update from Any | Update from DAB | Update from FM | No Update
- Set 12/24 hour - 12 | 24
- Set date format - dd-mm-yyyy | mm-dd-yyyy.

### Set time/date

This option is for manually setting the time and date displayed. The time displays as hh:mm, with the first value, hh, active (flashing). Adjust each value using the select control button and press Select to confirm. The next value then becomes active and flashes. The date values follow and are set in the same way.

Note: The date displays as dd-mm-yyyy or mm-dd-yyyy depending on your choice of date format (see above).

# SYSTEM SETTINGS

## 6.4 BACKLIGHT

The SA20 has a backlight with three brightness settings, and adjustable timeout (this is the time delay, in seconds, after which the display switches to the Dim level).

There are three settings:

- Timeout - Light On | 10 | 20 | 30 | 45 | 60 | 90 | 120 | 180
- On level - Low | Mid | High
- Dim level - Low | Mid | High

Note: a green tick indicates the currently selected value for each setting.

## 6.5 INACTIVE STANDBY

If the SA20 is not interacted with for a time it can automatically enter Standby mode.

## 6.6 LANGUAGE

The language used for display messages can be selected from: English | Français | Deutsch | Italiano

## 6.7 FACTORY RESET

A factory reset clears all user defined settings, replacing them with the original default values, so time/date, preferences/settings, DAB station list and preset stations are all lost. If you select Factory reset, you are asked to confirm by selecting "Yes".

# ERROR MESSAGES

Message	Description
	<b>DAB mode</b>
Service not available	No DAB reception
Signal error	The DAB signal has been interrupted.
No DAB Station	The listed station cannot be found.
(No Name)	The current station does not broadcast an identity name.
No stations found	No DAB stations are available – check aerial.
	<b>FM mode</b>
No RadioText	No RDS text information is available on this station.
No PTY	No RDS programme type information is available.
No Name	No RDS station name is being broadcast
	<b>General messages</b>
Update failed	Software upgrade failed
Time is not set	No time value is currently set on this platform.
Time Not saved	Any changes made to the time settings will be lost.
Alarm Not saved	Any changes made to the Alarm settings will be lost.
Invalid Date	The entered value does not match a valid date.

# TROUBLESHOOTING

Problem	Cause	Solutions
FM: Hiss DAB: burbling/intermittent cut-out	Low signal strength	Check/move antenna Move radio Rescan high-strength stations only For DAB or DAB+, check the current status of local coverage with your national digital radio authority.
DAB: 'No stations available' message	Low signal strength	As above then rescan stations.



# SPECIFICATIONS

## SPECIFICATIONS

Steljes SA20

DAB/DAB+/FM/Bluetooth

10 Presets each for DAB/DAB+/FM

Clock/Alarm/Snooze Functions

Aux-In 3.5mm jack

Headphone out 3.5mm jack

4W Output

2.5 Inch Full Range Speaker

Up to 10 Hour rechargeable battery life

Dimensions: 182 x 116 x 100mm (H x W x D)

Weight: 1.3Kg

9V DC External Power Supply



## SERVICE & SUPPORT

Please contact your local authorised dealer or reseller.

Email: [info@steljesaudio.co.uk](mailto:info@steljesaudio.co.uk)

All information contained in this guide herein may change without notice and is provided on an "AS IS" basis, without warranties of any kind. Steljes Audio reserves the right to change specifications without notice. Images and Photos are for illustration only and actual product may vary. E&OE.

# LIMITED WARRANTY

## LIMITED WARRANTY

This product had been designed and manufactured to the highest quality standards; however, should you encounter any problems with this product please contact your local dealer or your country distributor.

This limited warranty is valid for the original owner for a period of one year from the date of purchase, it is not transferable.

### **What is covered by the limited warranty:**

The limited warranty covers all production and material defects of the product, except for the specifics stated below.

### **What is not covered by the limited warranty:**

Damage caused by packing and transport.

Defects caused by accidents, misuse, normal wear and tear, mis-maintenance, voltage variation and overloading.

Damage caused by incorrect installation or operation. Damage caused by modification or repair by a non-authorized service centre and use of non-original spare parts.

Other damage due to conditions beyond the supplier's control such as fire, rain and other force majeure events.

## **How to claim parts or repair under warranty:**

To have your product serviced under warranty, you must contact the dealer from whom the product was purchased.

You will need to produce this warranty booklet completed and stamped by your dealer on the date of purchase.

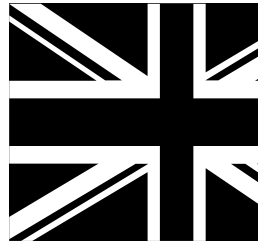
Alternatively, you will need the original sales invoice or other proof of ownership and date of purchase.

The supplier is liable only to repair or replace defective parts of products and the supplier is not responsible for indirect losses or damage arising from the use of the product.

Transportation costs for servicing are not covered by the warranty.

A service repair or replacement cannot exceed the value of the product under warranty; in no event shall the supplier be responsible or liable for special, incidental, consequential or indirect damage.





[www.steljesaudio.co.uk](http://www.steljesaudio.co.uk)