

Roth



# DBT-003

FM/DAB+ Radio with Bluetooth Receiver

User Manual : English

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## Thank you...

Thank you for purchasing the Roth DBT-003 FM/DAB/DAB+/Bluetooth radio.  
We sincerely hope that you enjoy using this radio for many years to come.

Turn It Up.

## Important Safety Precautions

### 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.

#### 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 ventilation 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.



#### 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.

#### 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.

#### Supervision

- Children should be supervised to ensure that they do not play with the unit.
- Never let anyone especially children push anything into the holes, slots or any other openings in the case - this could result in a fatal electric shock.

#### Service / Maintenance

- To reduce the risk of electric shock, do not remove screws. 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.

**CAUTION**  
RISK OF ELECTRIC SHOCK DO NOT OPEN!

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

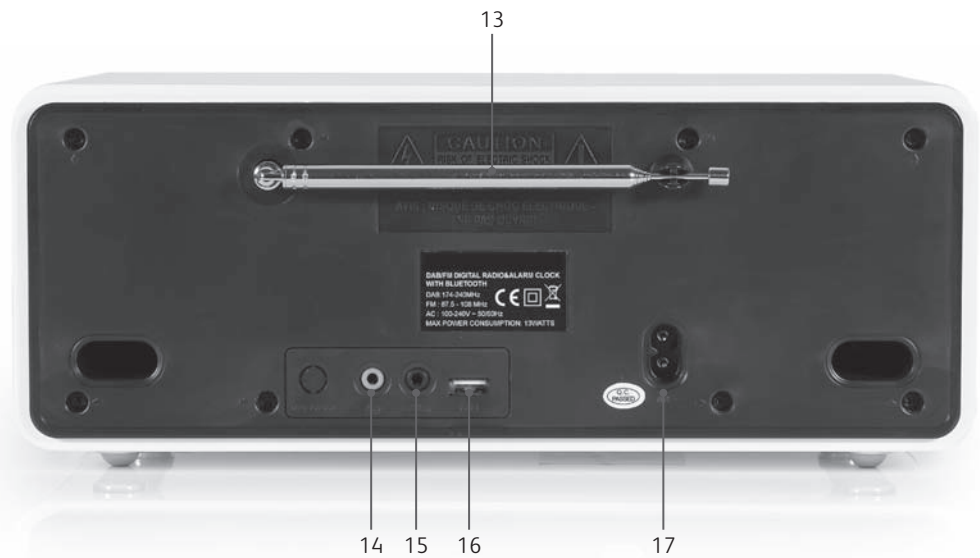
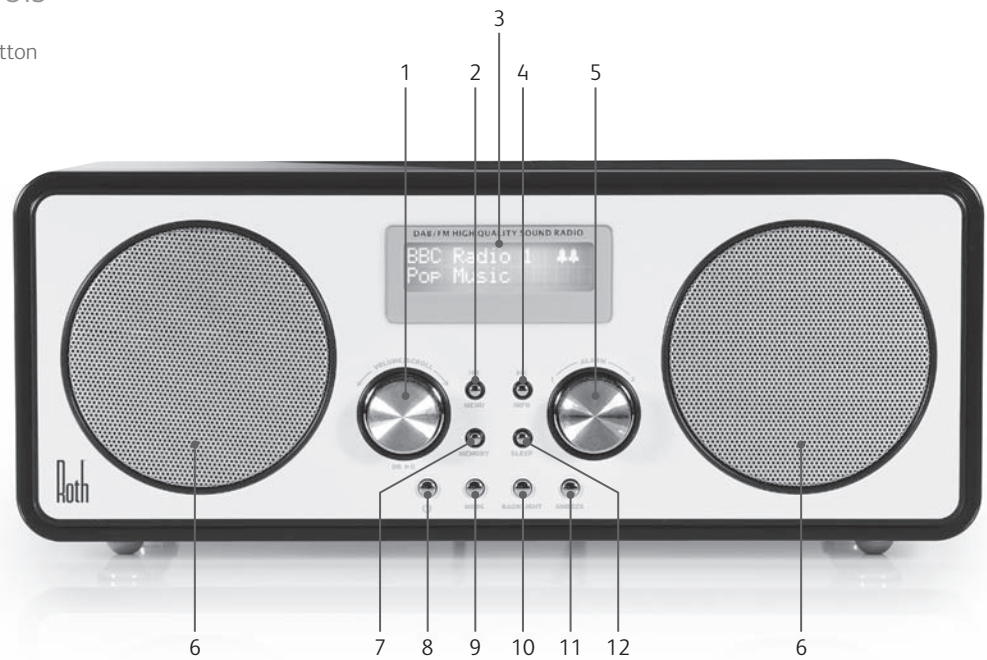


#### ATTENTION

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

## Features and Controls

1. Scroll Control & **OK/▶▶** Button
2. **MENU/◀◀** Button
3. LCD Display
4. **INFO/▶▶** Button
5. Volume Control
6. Speaker
7. Memory Button
8. **⏻** Power Button
9. Mode Button
10. Backlight Button
11. Alarm/Snooze Button
12. Sleep Button
13. Telescopic Antenna
14. Headphone Jack
15. Aux In Socket
16. USB Port
17. AC Cord Socket



### Switching Your Radio On For The First Time

When the radio is connected to the AC power for the first time, it will be in standby mode. The display backlight will be on for a few seconds, the display will first show the greetings and finally the clock. Press the **⏻** button once to turn the radio on, it will then automatically enter into the DAB mode and perform auto scan function.

### Clock setting

The clock will only set and be updated if you can receive DAB signals in your location. In order for the clock to synchronise to the current local time you must leave it one DAB station for a short period. Manual clock setting is not required.

## Listening To Your Radio

### Hints for better reception

This radio carries a single DAB/FM telescopic antenna, to obtain the best performance, you should fully extend the antenna and adjust its position as well as the direction until you find the best reception. For ideal DAB reception, always maintain the antenna in an upright vertical position is highly recommended.

### DAB mode

If the radio is powered up and switched on for the first time, it will automatically enter into the DAB mode and perform auto scan function. During the scan the display will show "Scanning..." together with a slide bar that indicates the progress of the scan and the amount of stations that have been found so far. (Figure 1)

Once the scan has finished, the radio will select the first alphanumerically found station. To explore the found stations, rotate the OK control, and when you find a station that you would like to listen to, press on the OK control. (Figure 2)



Figure 1

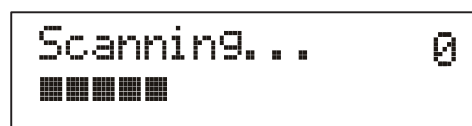


Figure 2

**Note:** If there is no stations found after auto scan, the radio will then enter into the Tune Select Menu, you can now rotate the OK control followed by pressing on the same control to select "Manual tune" or "Autoscan" for stations.

### DAB auto scan

The auto scan will search for the entire DAB Band III channels. After the scan has finished, the first alphanumerically found station will be automatically selected.

To activate auto scan, first press the **MENU** button to enter into the Tune Select Menu, then rotate the **OK** control to select "Autoscan", finally press on the OK control to confirm, the display will show "Scanning..." and a progressing slide bar. (Figure 3)

All the stations that have been found will be stored automatically, to explore and select listening to the found stations, rotate the OK control followed by pressing on the same control.



Figure 3

## Listening To Your Radio continued

### DAB manual tune

To select manual tune, first press the **MENU** button to enter into the Tune Select Menu, then press on the **OK** control to select "Manual tune". (Figure 4)

Rotate the **OK** control to move through the **DAB** channels, the display will show "5A to 13F" and their associated frequencies. (Figure 5)

When your desired frequency appears in the display, press on the **OK** control to confirm. The name of the station group (ensemble/multiplex) will be displayed. To listen to the station selected, press on the **OK** control again.



Figure 4

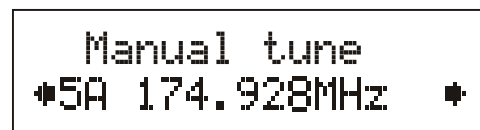


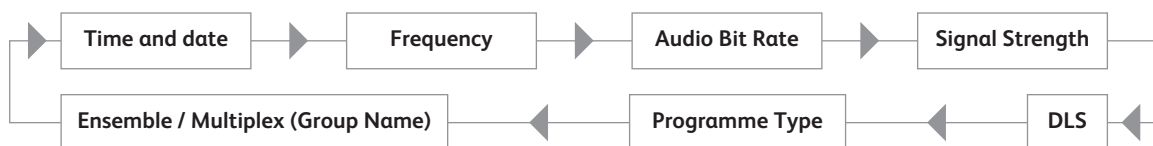
Figure 5

### DAB secondary services

On some occasions you will see a ">" symbol directly after the name of the station, this indicates that there are secondary services available to that station. These secondary services contain extra services that relate to the primary station. E.g. a sports station may want to add extra commentaries. The secondary services are inserted directly after the primary station. To select the secondary station, press on the **OK** control once.

### DAB display modes

Every time you press the **INFO** button, the display will cycle through the following display modes:



**Time and date** The time and date will be automatically updated by the broadcasted information; it is no need to set the clock manually. In the unlikely event that no clock information is received, the display will show "<TIME/DATE>".

**Frequency** The frequency of the present station will be displayed.

**Audio bit rate** The display will show the digital audio bit rate being received.

**Signal strength** The display will show a slide bar to indicate the signal strength, the stronger the signal, the longer the bar will be from left to right.

**DLS** DLS stands for Dynamic Label Segment which is a scrolling message that the broadcaster may include in their transmissions. The message usually includes information such as programme details etc.

**Programme type** This describes the style of the programme that is being broadcast. If the information is not available, the display will show "<Programme Type>".

### Ensemble/Multiplex (Group name)

The Ensemble/Multiplex is a collection of radio stations that are bundled and transmitted together in a single frequency. There are national and local multiplexes, local ones contain stations that are specific to that area.

**Note:** Press and hold the **INFO** button for longer than 2 seconds, the software version number will be displayed.

### FM radio

1. To select FM, repeatedly press the **MODE** button until you see “Switch to FM” is displayed, the display will show FM and the frequency.
2. To activate auto search, press and hold the **OK** control until it starts to scan the frequency band, the display will show “Searching... >.” or “Searching... <.”, and it will stop automatically once a station has been found. (Figure 6)(Figure 7)
3. To activate manual tuning, rotate the OK control.
4. To select the FM stereo/mono reception, press the **OK** control to toggle between the “Auto” or “Mono” selection.

**Note:** The radio will automatically switch between the stereo and mono reception, but you can override this and switch this function manually which is helpful for poor signal reception.

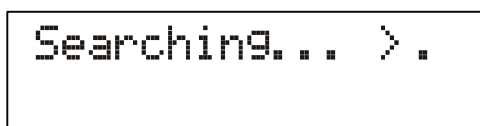


Figure 6

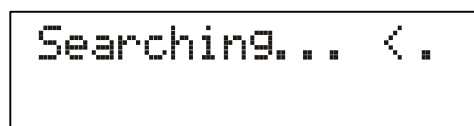


Figure 7

## Storing and Recalling Stored Stations

In either DAB or FM mode, you can store up to 10 stations to the favourite presets; this will enable you to get direct access to your favourite stations.

1. To store a preset, first tune to your desired station, then press and hold the **MEMORY** button, the display will show “Empty preset 1”, and the preset number will flash. (Figure 8)
2. Rotate the **OK** control to select your desired station preset number.
3. Press on the **OK** control to confirm your selection, the display will show “Preset # saved” (Figure 9)
4. To recall a preset station, first press the **MEMORY** button once, then rotate the OK control to scroll up or down the presets that you have stored. When the display shows your desired preset number, stop your rotation of the control. If the preset hasn’t been allocated a station, the display will show “Empty preset #”.



Figure 8

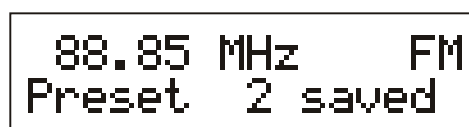


Figure 9

## Factory Reset

When you move the radio to another part of the country, your pre-tuned and stored DAB stations may no longer be available. If this is the case then you will need to reset your radio back to its original factory settings; to perform a factory reset, please do the following:

1. Plug the radio to mains and press the **⏻** button to turn the radio on.
2. Press and hold the **MENU** button until the display shows "Press **SELECT** to confirm reset".
3. Release the **MENU** button and press on the **OK** control once, the display will first show "Restarting ..." and after the reset is completed, the radio will go to standby.
4. Press the **⏻** button to turn the radio on again, it will then automatically enter into the DAB mode and perform auto scan function. After the scan has finished, the radio will select and display the first alphanumerically found station.

**Note:** All of your stored DAB & FM presets will be lost once the reset has taken place.

## Alarm Function

This unit incorporates an identical Dual Alarm function. You can have two individual alarm wake-up time and wake-up mode settings to wake you to an electronic buzzer tone or your favourite radio station (DAB/FM).

### Setting the alarm time and wake-up mode

1. Press the **ALARM** button once to enter into the Alarm Menu, then rotate the **OK** control followed by pressing on the same control to select Alarm (1 or 2).
2. Again rotate the **OK** control followed by pressing on the same control to select "Alarm Setting". The display will show "Alarm # Setting" and the hour digit of the alarm time will flash. (Figure 10)
3. Rotate the **OK** control followed by pressing on the same control to adjust and confirm your desired alarm time - first set the hour and then the minute.
4. After the confirmation of the minute setting, the alarm time is set and you will enter into the wake-up mode settings.
5. Rotate the **OK** control followed by pressing on the same control to adjust and confirm the wake-up mode settings -first set the DAB and FM Preset (1-10), then the Buzzer Tone (1 or 2), finally the alarm Volume level. (Figure 11)
6. After the selection of the alarm volume level, the wake-up mode settings are completed and the alarm function is now ready for you to activate.
7. Repeat the above procedures to set the other Alarm (1 or 2).

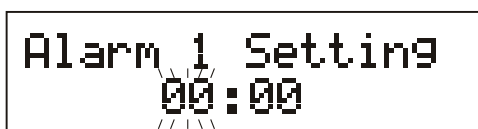


Figure 10

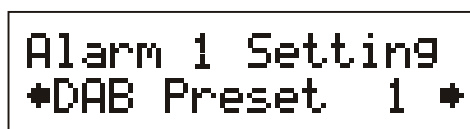
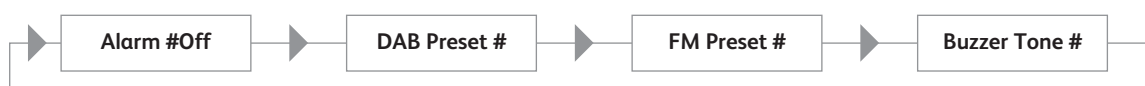


Figure 11



### Activating the alarm function

1. To activate the alarm function, press the **ALARM** button to enter into the Alarm Menu and select Alarm (1 or 2).
2. Rotate the **OK** control followed by pressing on the same control to select "Alarm Source".
3. Again rotate the **OK** control and the associated alarm wake-up mode will be displayed and changed in the below sequence:



4. When the display shows your desired alarm wake-up mode, press the **OK** control, the alarm function is now activated and the associated alarm icon will be displayed.
5. When the alarm time arrives, the selected wake-up mode will be on and the alarm icon in the display will flash to indicate the alarm is triggered. To stop the alarm sooner, press the button.

**Note 1:** If you have activated the alarm function and the wake-up mode is DAB or FM, make sure that the alarm volume level is set at a sufficient level for you to hear.

**Note 2:** The alarm comes first will have the priority and it would continue for a duration of one hour, the snooze will just switch off this alarm temporary during this duration, so if the second alarm comes in this period, it will not function. But if the first alarm is switched off before the second alarm arrives, then the second alarm will be activated.

### Automatic Alarm Repeat

The alarm will automatically repeat each day at the selected time as long as the alarm icon is displayed. To cancel this function, go to the Alarm Menu and select "Alarm # off" in the associated "Alarm Source" menu.

### Snooze function

When the alarm has triggered, press the **SNOOZE** button will temporary switch off the alarm for 5 minutes, the display will show "Zz" to indicate snooze on. This is repeatable in the one hour alarm duration.

### Sleep Function

This function allows you to program the radio to switch off itself after a set period of time.

1. To activate the sleep function, repeatedly press the **SLEEP** button, the display will show "Sleep Timer" and the time will change in the below sequence on every press: **90 > 80 > 70 > 60 > 30 > 10 > Off > 90 > 80 > ...**
2. When your desired sleep time appears in the display, release the button and the sleep function will be activated in two seconds. The display will show "s#" where "s1" is to represent "10 minutes" sleep time and so on.
3. When the sleep time counts to zero, the unit will go off. To put the sleep function off during sleep timer on, repeatedly press the **SLEEP** button until the display shows "Sleep Timer Off".
4. To check the sleep timer status, press the **SLEEP** button once.

## Bluetooth Mode

Bluetooth connectivity performance may vary with brand and model of the connected device. For best performance, please connect newer Bluetooth devices incorporating Bluetooth 2.1 and using the latest firmware update available from the device vendor. Compatibility with all devices and media types is not guaranteed.

### Bluetooth performance considerations

Ensure all Bluetooth devices within 30 feet have Bluetooth transmission disabled. The presence of other functioning Bluetooth devices during connection may lead to operational difficulties. Bluetooth is a short-range radio communication standard. The Bluetooth transmitter and receiver hardware in this unit has an approximate operational range of 30 feet in open space. Generally Bluetooth devices can communicate with each other clearly within a regular sized room or office. Operation between different rooms will depend on the construction of the room. It is important to recognize the fact that Bluetooth communication range may be substantially reduced if the signal passes through a solid object. Human bodies, brick and concrete walls, and heavy furniture or bookcases will reduce the operational range of your Bluetooth devices. Glass, dry-wall or wood paneled walls and office partitions may have a less severe but noticeable effect. You should position your Bluetooth devices closer to each other if you observe communication difficulties.

### Supported Bluetooth profiles

The Bluetooth capabilities of this radio enable it to receive audio from many Bluetooth- capable devices including mobile phones, personal computers and PDAs. It supports the following Bluetooth profiles and functionality. Only one device per profile can be connected concurrently.

#### Advanced Audio Distribution Profile (A2DP)




-High-quality stereo audio connection -Streaming of stereo music from PC, mobile phones...etc

#### Audio Video Remote Control Profile (AVRCP)

-Device remote control -Control connected device

### Stereo music connection to your mobile phones

This connection requires a mobile phone supporting the Bluetooth A2DP profile for stereo music connection. In order to create new Bluetooth connection you will need some familiarity with the Bluetooth functions of your mobile phone. As each phone operates slightly differently, please familiarize yourself with the Bluetooth capabilities of your device before connecting.

1. Ensure that the Bluetooth on your mobile phone is powered on. You might need to refer to the phone user manual for details.
2. Place the radio and the phone where they are no more than 3 feet apart.
3. Repeatedly press the **MODE** button to select Bluetooth mode, the display will show "Bluetooth" together with the "flashing icon".
4. Set the A2DP-capable phone to search for Bluetooth devices and follow the instructions on the phone's screen. You will recognize the radio by its Bluetooth name "**BT Speaker**". In case that you are prompted for a passkey, enter "0000".
5. Select and confirm the pairing on your phone, the connection will be completed in a few seconds and the radio will produce a double beep confirmation tone, the "flashing icon" on the display will change to  and you can now start your Bluetooth music streaming operation.
6. Press the **OK** control on the radio or select starting playback on your phone to start the music playback.
7. To interrupt playback, press the **OK** control again or select "pause" on your phone.
8. To skip forward or back to other songs during playback, press the  or  buttons on the radio or select the "skip controls" on your phone.

#### Note:

*Some mobile phones may connect and disconnect as you make and end calls. This is not an indication of a problem with your unit.*

### Stereo music connection to other Bluetooth devices

This connection requires a device supporting the Bluetooth A2DP profile for stereo music connection. Please ensure your device has the latest versions of software drivers and/or firmware supporting Bluetooth functionality. Compatibility with all devices is not guaranteed. In addition to the procedures described above for mobile phones, this radio can receive stereo music from many other Bluetooth source devices including personal computers, PDAs, Bluetooth enabled music players. The exact connection procedures may vary from device to device, please refer to the device user manual for specific operations.

**Note:** An increasing number of computing devices include support for Bluetooth, and many include support for stereo music over Bluetooth (A2DP). For best performance from your particular device, please ensure that you are using the latest update of software drivers and/or firmware available. In certain circumstances, updating the software drivers or firmware of your device to the latest release may add support for A2DP that was not available in a previous release. Please contact the vendor of your device for such updates and refer to the device user manual for update procedures. Please remember that system updates should only be performed by qualified individuals after performing a full system backup.

## Aux Input

There is a 3.5mm stereo aux input socket located at the back of the unit; analogue audio sound signals from other sources can be input to the radio through this socket. To select AUX function, repeatedly press the **MODE** button until you see "Switch to AUX" is displayed, the audio will be switched to the aux input signal and you can adjust the volume control for your desired sound output level.

**Note:** To further enhance energy saving, if the unit is left in AUX mode and without any user operation for three hours, the unit will switch itself to standby automatically; To toggle select this function between on & off During unit on, press and hold the MODE button for longer than two seconds, the display will show "ECO ON" or "ECO OFF".

## USB Port

There is an USB port located at the back of the unit, a standard 5V/500mA output is provided for normal USB charging capability. USB data communication is not available through this port.

## Headphone Jack

A 3.5mm type stereo headphone jack is located at the back of the unit. Connect a set of stereo headphones (not included) to this jack for private listening without disturbing others. The speakers are automatically disconnected when the headphones are in use.

**IMPORTANT:** When using headphones always set the volume to a low level before you put the headphones on. Then insert the headphones and gradually increase the volume to a comfortable listening level.

## Display Backlight

There are four backlight levels for you to set in unit operation. To set the backlight, repeatedly press the **BACKLIGHT** button and the brightness of the display will change in the below sequence on every press:

**Backlight off > Backlight 01 > Backlight 02 > Backlight 03 > Backlight off >...**

During standby, the backlight level is defaulted to be "Backlight 01", press the **BACKLIGHT** button will toggle the backlight level between "Backlight off" and "Backlight 01", and it will be turned on to full brightness for 5 seconds on every key press.

**Note:** The display backlight level is defaulted to "Backlight 01" in standby and "Backlight 03" during operation. This is resumed only when the factory reset has taken place.

## Specifications

### **DBT-003 Design:**

DAB+ / FM PLL / Bluetooth Receiver

20 Radio Station Presets (10 DAB+ + 10 FM)

Multi-Function Dot Matrix LCD Display with Backlight & Dimmer Control

Automatic DAB Synchronised Real Time Clock

Dual Alarm with Selectable Wake Up Mode (Radio/Buzzer)

Electronic Rotary Jog Select Controls

Integrated Full Range Dynamic Stereo Speakers

### **Performance:**

Output Power 2x5W RMS High Acoustic Performance

### **Inputs & Outputs:**

Stereo Earphone Output & Auxiliary Input

Frequency Range: DAB - 174-240 MHz / FM - 87.5-108 MHz

Power Supply - AC 100-240V~60/50Hz

### **Dimensions:**

L: 300mm W: 145mm H: 115mm

Weight 1.71Kgs

# Roth

## Service

Please contact your local authorised dealer or reseller.

Email: [support@rothaudio.co.uk](mailto:support@rothaudio.co.uk)



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