

# » PERFECT PRO

# SLIM•3



INSTRUCTION MANUAL	<b>GB</b>
MANUEL DE L'UTILISATEUR	<b>F</b>
BRUKSANVISNING	<b>NO</b>
GEBRUIKSAANWIJZING	<b>NL</b>
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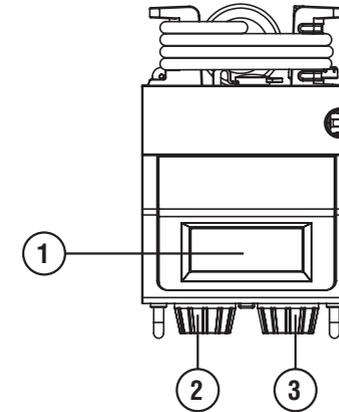
**WARNING ! WARRANTY BECOMES VOID ONCE THE DEVICE CABINET HAS BEEN OPENED OR ANY MODIFICATIONS TO THE ORIGINAL DEVICE HAVE BEEN MADE**

**GB**

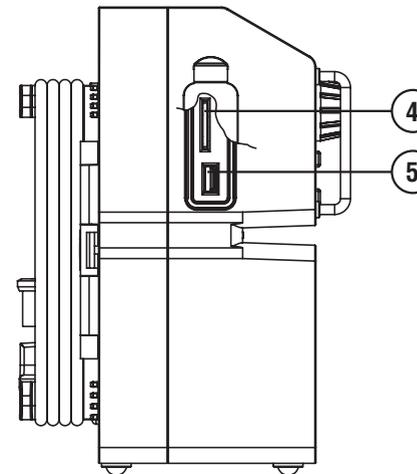
## IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with dry cloth.
6. Do not block any ventilation openings. Install in accordance with the instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
8. Do not defect the safety purpose of the polarized or grounding – type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required if the apparatus has been damaged in any, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
15. Do not remove the cover; there are no user-serviceable parts inside.
16. No naked flame sources shall be placed on the apparatus.
17. For outdoors use, to avoid electric shock, use battery only during a raining day or the weather is wet. To prevent electric shock, if the radio has been exposed to rain or water, the power supply cord and plug must be completely dried before plugging into the mains socket outlet.
18. The power plug should be close to the apparatus, and easy to be approached that during emergency, to disconnect the power from the apparatus, just unplug the power plug from the AC power slot.
19. The marking information is located at the bottom of the apparatus.
20. This apparatus is provided with protection against splashing water (IP65).
21. In case of malfunction due to electrostatic discharge or fast transient (burst), remove and reconnect the power supply.

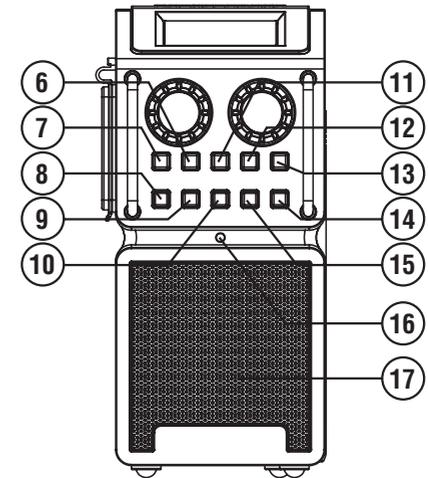
## CONTROLS



1. LCD display
2. VOLUME/TONE knob
3. TUNING / SEEK knob



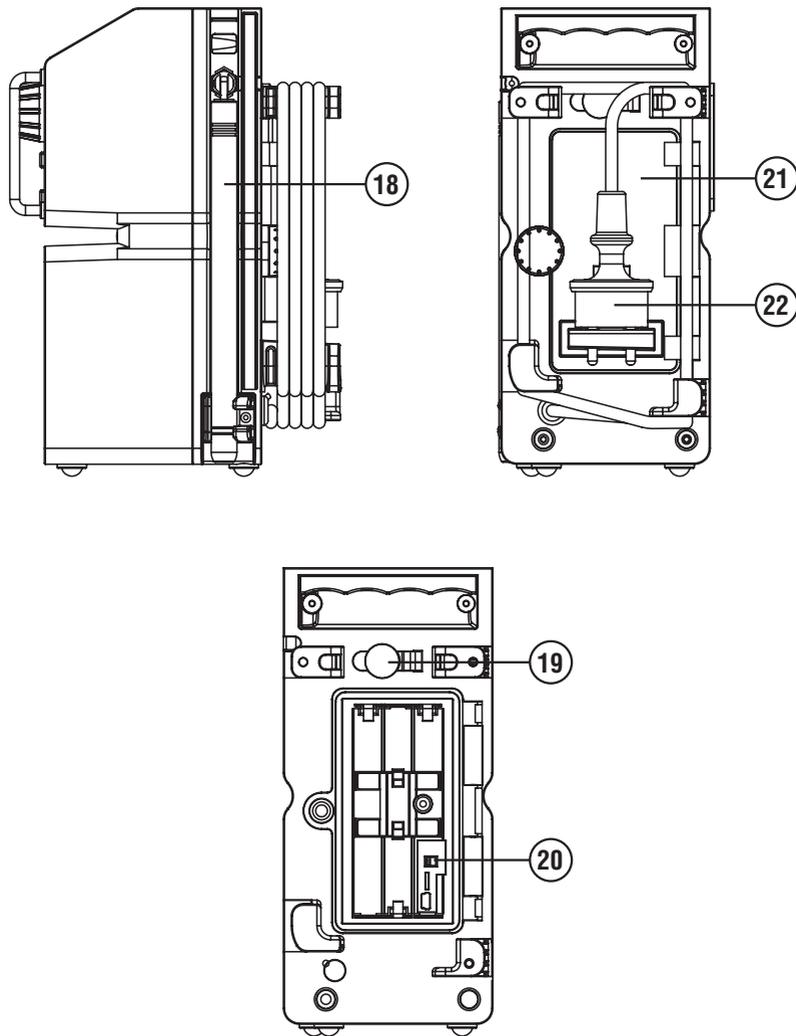
4. SD SLOT
5. USB SOCKET
6. PRESET 2 / FOLDER +
7. PRESET 1 / FOLDER -
8. ON/OFF
9. SOURCE
10. LOUDNESS



11. PRESET 3 / REWIND
12. PRESET 4 / FAST FORWARD
13. PRESET 5 / PLAY / PAUSE
14. MENU
15. INFO
16. BLUETOOTH LED
17. SPEAKER

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## CONTROLS



- 18. ANTENNA
- 19. AUX-IN
- 20. BATTERY SELECT SWITCH
- 21. BATTERY COMPARTMENT
- 22. POWER CORD / PLUG STORAGE

## POWER SUPPLY

### AC operation

- Before plugging the AC power cord into the AC socket, make sure the voltage is correct and the Battery Select switch is set correctly: ALKALINE when using no batteries or Alkaline batteries / CHARGE NiMH ON when using NiMH rechargeable batteries.
- If you use alkaline batteries in the radio and the Battery Select switch is on ALKALINE, the batteries will be disconnected automatically when using AC power supply.
- If you use rechargeable NiMH batteries in the radio and the Battery Select switch is on CHARGE NiMH ON, the NiMH batteries will be charged automatically when using AC power supply.
- AC power cord and plug storage are designed to store the cord and plug when the radio is not in use or playing on batteries.

### Note:

In order to disconnect the unit from the AC mains completely, the AC power cord should be removed from the mains socket completely. The AC power cord shall remain readily operable and should not be obstructed during intended use.

In case of malfunction due to electrostatic discharge or fast transient (burst), remove the power supply and all the batteries then reinstall the batteries and reconnect the power supply.

### Battery operation

1. To open the battery compartment, first turn the battery cover fixtures counter clockwise to loosen and open the battery cover.
2. This unit can be operated with either Alkaline batteries (6 x 1,5V type IEC LR6 / UM-3 / AA-size) or NiMH rechargeable batteries (6 x 1,2V PerfectPro Rechargeable UM3/AA 2300mAh). Set the Battery Select switch in the battery compartment according to the battery type to be used (ALKALINE or CHARGE NiMH ON).
3. Insert the batteries with correct polarity as indicated in the battery compartment (+ and -). Close the battery cover and fasten the fixtures by turning clockwise. Close well to prevent moist or dust from entering the compartment.
4. If the unit is not to be used for an extended period of time, it is recommended that the batteries are removed from the radio.

The approximate power level of the batteries is displayed in the LCD display of the radio.

When the power level is very low, the indication "Battery Low!" appears and the battery symbol flashes on the display. The batteries should then be recharged or replaced soon to continue normal operation of the radio.

When the rechargeable NiMH batteries are being charged. The battery symbol in the LCD display will animate. The charging and animation will stop automatically when the batteries are full.

**Warning:**

- Danger of explosion if a battery is incorrectly replaced. Replace only with the same or equivalent type.
- Always make sure the Battery Select switch is set to the correct position.
- An Alkaline battery is not rechargeable. Never attempt charging Alkaline batteries.
- Do not mix up different battery types.
- Do not mix up charged and uncharged batteries.
- Do not expose the batteries to excessive heat such as sunshine, fire or the like.
- Batteries should not be disposed of by incineration and with household waste.
- Disposable batteries should be taken to a suitable recycling centre if possible.

**Note: Charging conditions of the rechargeable batteries and mobile phones**

This radio supports recharging of mobile phones from the USB host socket and also supports recharging of rechargeable NiMH batteries. The table below shows how the charging will function when a mobile phone is connected to the USB socket and/or rechargeable NiMH batteries are inserted.

Modes	Mobile phone connection	Charging speed	
		Mobile phone	NiMH batteries (inserted)
Standby	Mobile phone disconnected	Not connected	Quick charge
	Mobile phone connected	Charge	Slow charge
Radio On mode	Mobile phone disconnected	Not connected	Quick charge
	Mobile phone connected	Charge	Stop charging

**Note:**

When the radio is playing a USB stick, due to additional power consumption of this function, the charging of the batteries will stop in order to maintain normal functioning and quality of the USB playback. Once the USB stick is removed normal charging will continue.

**Note:**

To fully charge the rechargeable NiMH batteries, the radio will need about 7 hours when it is in the quick charge mode, or about 16 hours when it is in slow charge mode.

## IMPORTANT INFORMATION ON CHARGING AND USING RECHARGEABLE BATTERIES

1. Recharge the batteries in any case at least every 2 months.
2. Make sure the Battery Select switch next the battery compartment is set to the "CHARGE NiMH ON" position.
3. Put the batteries in the compartment whilst paying attention to the correct polarity of the batteries (+ and -).
4. First use: Charge new batteries in one continuous, uninterrupted, charge until they are full. This first charge may take longer than normal. For longer battery life it is advised to always recharge in one continuous, uninterrupted charge until batteries are full and to not recharge again whilst the batteries are still full.
5. New batteries will only reach their full capacity after some time of use (several charge – discharge cycles).
6. Leave the complete group of batteries in place inside the radio and do not use these batteries or a few of them for other purposes. This will result in a mix of (fully) charged and (partly) empty batteries. This can seriously damage the batteries and radio when recharged.
7. It is advised to only charge batteries at room temperatures between 5 degrees C – 35 degrees C. In lower or higher temperatures full charge cannot be achieved.
8. Depending on the capacity of the batteries, charging from "empty" to "full" can take several hours, even up to 10 hours or more.
9. Do not charge batteries when the radio is hot or exposed to heat or heat sources.
10. It is advised to clean the metal contacts of the batteries and of the charger inside the radio e.g. with a contact-spray from time to time.
11. Do not use a mix of old and new rechargeable batteries.
12. Do not use a mix of rechargeable and non-rechargeable batteries.
13. Do not use a mix of full and empty rechargeable batteries.
14. Do not use batteries that have a different mAh capacity.
15. Do not use damaged, deformed or leaking batteries.
16. Battery level indication is an approximate indication only and can vary with battery type used.
17. Batteries can become hot during charging.
18. In cold conditions the capacity of batteries will be much lower than when used at normal room temperature
19. Batteries (even when supplied with the radio), as being consumables, do not fall under the warranty conditions of the radio.
20. It is advised to use Perfectpro rechargeable batteries as the radio and its charger were developed for use with these batteries.

## GENERAL FUNCTIONS

- 1. Switching on and off**  
Press the **ON/OFF button** to turn the radio on or in standby.
- 2. Switching among DAB / FM / Bluetooth / AUX IN / USB / SD modes**  
Press the **SOURCE button** to switch between modes.
- 3. Tuning the Radio**  
Tune the radio using the **TUNING/SEEK knob** on the right.
- 4. Adjusting the Volume**  
Adjust the volume with the **VOLUME/TONE knob** on the left.
- 5. Adjusting the Tone**  
Press and hold the **VOLUME/TONE knob** on the left for about 3 seconds and rotate it to adjust the Bass and Treble.
- 6. Bluetooth pairing**  
Press the **SOURCE button** to Bluetooth mode. Then open the Bluetooth setup menu in mobile phone, search and connect to the Bluetooth device name "PP Slim 3". Once the mobile phone name is showed on the LCD, you can start streaming music to mobile phone.
- 7. Playing music stored in a paired mobile phone from the Slim 3 radio in Bluetooth mode**  
Press the **REWIND, FAST FORWARD** and **PLAY/PAUSE** buttons (Preset buttons 3, 4 and 5)
- 8. Charging a mobile phone from the Slim 3 radio**  
Connect the mobile phone to the USB socket on the left side with an appropriate cable (not included with the radio).

## USING THE DEVICE FOR THE FIRST TIME

1. Place the radio on a flat surface.
2. Carefully extend the antenna located on the top of the radio. Adjust the antenna so it is vertically extending above the radio.
3. Plug the AC power cord into the AC socket. The radio will start up and the display will show "WELCOME TO DIGITAL RADIO" for a few seconds. Then the radio will automatically perform an auto scan of the Band III DAB channels and the FM band in the background.
4. When the scan is completed, the 5 strongest FM stations and the first 5 DAB stations will be stored as presets. The radio will switch to standby with the updated clock and date showing on the display.
5. If no signals are found, the clock will not be updated. It may be necessary to relocate the radio to a position giving better reception.

## DAB RADIO MODE

### Operating the radio – DAB

1. Carefully extend the antenna. Press the **ON/OFF button** to switch on the radio.
2. Select the DAB waveband by pressing the **SOURCE button**.
3. The first station (in numeric-alpha order 0...9...A...Z) in the list of stations found will be played. The display will show the station name.  
If the radio has been used before, the last used station will be selected.
4. If no signals are detected, "No stations available" will be displayed. It may be necessary to relocate the radio to a position giving better reception.  
You should then carry out an auto scan to find stations, please refer to the section "Find new stations - DAB".

### Selecting a station – DAB

1. Press the **ON/OFF button** to switch on the radio.
2. Select DAB waveband by pressing the **SOURCE button**. The display will show "Now tuning" for a few seconds.
3. The display shows the name of the radio station currently selected.
4. Rotate the **TUNING/SEEK knob** to scroll through the list of available stations.
5. When the desired station name appears on the display, press the **TUNING/SEEK knob** to select the station. The display will show "Now tuning" while the radio finds the new station.

**Note:** If after selecting a station the display shows "No stations available", it may be necessary to relocate the radio to a position giving better reception.

### Secondary services – DAB

1. Certain radio stations have one or more secondary services associated with them. If a station has a secondary service associated with it, then the secondary service will appear immediately after the primary service as you turn the **TUNING/SEEK knob**.
2. Press the **TUNING/SEEK knob** to select the secondary service.  
Most of secondary services do not broadcast continually and if the selected service is not available, the radio will re-tune to the associated primary service.

## Display modes – DAB

In DAB mode, the radio can display a range of information on the display.

1. Press the **INFO button** to cycle through the various modes.
  - a. Scrolling text Displays scrolling text message such as artist/track name, phone in number, etc.
  - b. Signal strength Displays the signal strength of radio reception. The clear unfilled rectangle indicates minimum signal level required for satisfactory reception.
  - c. Program type Displays type of station being listened to e.g. Pop, classic, News, etc.
  - d. Multiplex name Displays name of multiplex to which the current station belongs.
  - e. Channel & frequency Displays channel number and frequency for the currently tuned DAB station.
  - f. Bit rate & audio type Displays the digital audio bit rate.
  - g. Time & date Displays the current time (24 hour clock) and date.

## Finding new stations – DAB

From time to time, new stations may become available. You may proceed to find new stations as follows:

1. Press the **MENU button**, “Full scan” shows on the display.
2. Press the **TUNING/SEEK knob**, the radio will perform a scan of the Band III DAB channels.

As new stations are found, the station counter on the right-hand side of the display will increase and stations will be added to the list.

## Manual tuning – DAB

Manual tuning allows you to tune the radio directly to various DAB Band III channels.

1. Press the **MENU button**, the display shows “Full scan”.
2. Rotate the **TUNING/SEEK knob** until the display shows “Manual tune”. Press the **TUNING/SEEK knob**.
3. Rotate the **TUNING/SEEK knob** to select the desired DAB channel. Press the **TUNING/SEEK knob** to tune the chosen frequency.
4. The signal strength display with an open bar shows the minimum signal strength needed for good DAB reception. The signal strength bars will go up or down showing the changing signal strength as you adjust the antenna or the radio position.
5. When a DAB signal is found, the display will show the name of the station. Any new radio stations found will be added to the list stored in the radio.
6. Repeat step 1 to step 5 for other channels with new stations if available.
7. Press the **TUNING/SEEK knob** to return to normal DAB service.

## Dynamic Range Control (DRC) settings – DAB

DRC can make quieter sounds easier to hear when the radio is used in a noisy environment.

1. In DAB mode, press the **MENU button**, the display shows “Full scan”.
2. Rotate the **TUNING/SEEK knob** until the display shows “DRC value”. Press the **TUNING/SEEK knob**.
3. Rotate the **TUNING/SEEK knob** to select required DRC setting (default is Off).

DRC Off	DRC is switched off. Broadcast DRC will be ignored.
DRC Low	DRC level is set to low that sent by broadcaster.
DRC High	DRC is set as sent by broadcaster.
4. Press the **TUNING/SEEK knob** to confirm the setting. The display will return to normal radio display.

**Note:** Not all DAB broadcasts use the DRC function. If the broadcast does not provide DRC information, the DRC setting in the radio will have no effect.

## Prune stations – DAB

If you move to a different part of the country, some of the listed stations might no longer be available. Also, from time to time, some DAB services may stop broadcasting, or may change location or frequency. The Prune stations function will delete the unavailable DAB stations from your station list.

1. In DAB mode, press the **MENU button**, the display shows “Full scan”.
2. Rotate the **TUNING/SEEK knob** until the display shows “Prune”.
3. Press the **TUNING/SEEK knob** to enter the setting.
4. Rotate the **TUNING/SEEK knob** to select between “Yes” or “No” (default is No). Select “Yes” to enable this function if required, otherwise, select “No”.
5. Press the **TUNING/SEEK knob** to confirm your setting. The display will return to normal radio display.

**Note:** If you have moved the radio to a different part of the country, you should also carry out a search for new stations (please see the section “Finding new stations – DAB”).

## FM MODE

### Operating the radio – FM seek station

1. Press the **ON/OFF button** to turn on the radio.
2. Select the FM waveband by pressing the **SOURCE button**.
3. If this is the first time to switch to FM mode, the station in preset 1 will be played. If the radio has been used before, the last listened station will be played.
4. To seek a station, press the **TUNING/SEEK knob**. The scan stops automatically when it finds a station of sufficient strength.
5. After a few seconds, the display will update and show the station name if RDS information is being received.
6. To find other stations, press the **TUNING/SEEK knob** again.
7. To seek station in an opposite direction, rotate the **TUNING/SEEK knob** clockwise (to scan from low frequency to high frequency) or rotate anti-clockwise (to scan from high frequency to low frequency), and press the **TUNING/SEEK knob**.
8. When the waveband end is reached, the radio will recommence tuning from the opposite waveband end.

### Manual tuning – FM

1. Press the **ON/OFF button** to turn on the radio.
2. Select the FM band by pressing the **SOURCE button**.
3. Rotate the **TUNING/SEEK knob** to reach the required FM station.  
The radio will change the frequency in steps of 50 kHz.
4. Rotate the rubber antenna to get the best reception. If the radio is tuned to a station of sufficient signal strength with RDS information present, the display may change to show the station name.
5. When the waveband end is reached, the radio will recommence tuning from the opposite waveband end.

### RDS station service – FM

RDS (Radio Data System) is an information system which inaudible digital information is transmitted in addition to the normal FM radio program. When the radio is receiving a RDS station and the reception strength is sufficient, the station name will appear in the display. It may take some time before the RDS information is available.

### Calling up RDS information

When you are listening to a FM station with RDS system, repeatedly press the INFO button to cycle through the information. This will only function if the reception level is sufficient and clear.

- |                       |   |
|-----------------------|---|
| a. Radio text (RT)    | Displays the message about the station being listened to as ticker text.      |
| b. Program type (PTY) | Displays the type of station being listened to, e.g. Pop, Classic, News, etc. |
| c. Frequency          | Displays the frequency of the station being listened to.                      |
| d. Signal level       | Displays the signal strength.   |
| e. Time & date        | Displays the current time (24 hour clock) and date.                           |

### Scan sensitivity setting – FM

The radio will normally scan all stations from FM broadcasts including the weaker signals. However, you may wish the Auto-scan to find only those stations with strong enough signals to give good reception.

1. Press the **ON/OFF button** to turn on the radio.
2. Select the FM band by pressing the **SOURCE button**.
3. Press the **MENU button**, the display shows “Scan setting”.
4. Press the **TUNING/SEEK knob**.
5. Rotate the **TUNING/SEEK knob** to select between “All stations” or “Strong station” (default is Strong stations).  
The “Strong station” option will allow the radio to find strong signals only when scanning.
6. Press the **TUNING/SEEK knob** to confirm your setting. The display will return to normal radio display.

## PRESET STATIONS

### Storing preset stations

There are 5 memory presets in the radio, 5 for DAB and 5 for FM. Presets are remembered by the radio in the event of a power failure.

1. Press the **ON/OFF button** to turn on the radio.
2. Press the **SOURCE button** to select the desired waveband.
3. Tune to the required station.
4. Press and hold the required **PRESET button** until the radio beeps and shows for example “Preset 01 Stored”.
5. Repeat step 3 and 4 for the remaining presets.
6. Stations stored in the preset memories can be over-written by following the above procedure.

## Recalling preset stations

1. Press the **ON/OFF button** to turn on the radio.
2. Press the **SOURCE button** to select the desired waveband.
3. Briefly Press the required **PRESET button**, the display will show, e.g. "P1", in the first line.

## USING BLUETOOTH

### Pairing Bluetooth with your mobile phone

1. Press the **ON/OFF button** to turn on the radio.
2. Select Bluetooth mode by pressing the **SOURCE button**.
3. The LCD display will show "Not connected" when radio is not yet paired with your mobile phone. Also the blue **Bluetooth LED** on the front panel will be blinking at this moment.
4. In your mobile phone open the Setting menu and select Bluetooth, then select "**PP Slim 3**" in the Bluetooth devices list (Bluetooth pairing instructions may vary per type of mobile phone, please check your mobile phone manual).
5. When Bluetooth pairing is successful, the LCD display will show "Bluetooth Connected" in the 1st line, and your mobile's name in the 2nd line for about 2 seconds.  
The blue **Bluetooth LED** on the front panel will stop blinking when the radio is connected to a mobile phone.
6. After all, the LCD display will show the connected mobile phone's name in the 1st line to indicate the connected device to the radio.

### Playing music from your mobile phone

1. Press the **ON/OFF button** to turn on the radio.
2. Select Bluetooth mode by pressing the **SOURCE button**.
3. Start playing music by using the media players in the paired mobile phone.
4. Playback can be controlled from the mobile phone or by pressing the **REWIND**, **FAST FORWARD**, and **PLAY/PAUSE buttons** (preset buttons 3, 4 and 5) on the radio.
5. After the music playback starts, the name of the song will be displayed in the LCD.

## Display modes – Bluetooth

In Bluetooth mode, the radio can display a range of information of the current playing music on the display. Press the INFO button to cycle through the various types.

- |                |   |
|----------------|---|
| a. Title       | Displays scrolling song's name of the current playback music.   |
| b. Artist      | Displays the artist's name of the current playback music.   |
| c. Album       | Displays the album name of current playback music.  |
| d. Status      | Displays the playback status. E.g. playing or stopped.  |
| e. Music info  | Displays the music format and sampling rate of current playing song. E.g. "AAC" is the format of the song; "44100Hz" is the sampling frequency of the song. |
| f. Time & date | Displays the current time and date.   |

### Restart Bluetooth pairing

The Bluetooth function can be set to operate in different ways as below:

1. In Bluetooth mode, press the **MENU button** to enter the system setting.
2. Rotate the **TUNING/SEEK knob** to select "Disconnect BT" options, and press the **TUNING/SEEK knob** to select the setting.
3. The LCD display will show "Please wait" for a few seconds in order to disconnect the current connection with the mobile phone device.
4. The LCD display will show "Not connected" and the radio's Bluetooth is free for any mobile phone connection as it is in discoverable mode now.  
The blue **Bluetooth LED** on the front panel will be blinking at this moment.

**Note:** "Disconnect BT" is the option that forcing the Bluetooth of this radio to disconnect from your mobile phone and entering the "discoverable mode". This is the way to allow the Bluetooth pairing to another device. If no new device is paired, the Bluetooth will automatically try to connect to the last device when it is switched off and on again.

The Auto-Power management function will be activated in Bluetooth mode. If there is no signal\* from Bluetooth for a period of over 15 minutes, the radio will automatically switch to standby mode. Pressing the **ON/OFF button** will wake up the unit.

\* Also when the incoming signal from the external device is too low and cannot be detected for a period of over 15 minutes by the Auto-Power management, the radio will switch to standby mode.

To prevent this raise the output level of the external device enough to be detected.

## USB/SD MODE

**NEVER USE THE USB SOCKET OR AUX-IN SOCKET IN RAINY OR MOIST CONDITIONS TO PREVENT MOIST FROM ENTERING THE RADIO!! KEEP THE RUBBER COVER CLOSED UNDER THESE CONDITIONS.**

USB memory devices and Secure Digital (SD, SDHC) cards can be used with the radio for playback of MP3 and WMA files.

The radio has been tested with a range of SD cards up to 2GB and SDHC cards and USB memory devices up to 32GB. However, there are many different SD card and USB memory device variants available and not all of them can be guaranteed to work in this radio. Memory must use the FAT or FAT32 filing system in order to operate in this radio.

Audio formats supported for playback are MP3 and WMA. Playback does not support files encoded using WMA lossless, WMA voice, WMA 10 professional, or files of any format that have DRM protection.

The SD card slot and USB socket are located on the side behind the rubber cover. Make sure the rubber cover is closed well after use to prevent moist and dirt from entering the radio.

The USB memory device or SD card should not be removed during playback as damage or corruption of files may occur.

SD cards and USB memory devices are not included with this radio.

Note: When the radio is playing a USB stick, due to additional power consumption of this, the charging of the batteries will stop in order to maintain normal functioning and quality of the USB playback. Once the USB stick is removed normal charging will continue.

### Insert and remove a USB memory device

Carefully insert a USB memory device into the USB socket.  
To remove the USB memory device, simply pull the device out.

### Insert and remove a SD card

To insert a SD card into the radio, hold the “golden” contacts side facing towards you (front of the radio) and push carefully into the SD Card slot.  
Close the rubber cover to prevent moist or dust from entering into the sockets and slot.  
To remove the card, push the card slightly and it will pop out, allowing removal.

## Playing MP3 and WMA files

1. Press the **ON/OFF button** to turn on the radio.
2. Press the **SOURCE button** to select the USB or SD mode.  
The display shows “READING”. It may take some time before the radio has read in the folders and files data on the memory device.
3. After reading the USB memory device or SD card, the radio will start to play the first file (song) in the first folder.  
If no USB memory device or SD card is inserted, the display will show “NO USB STICK” or “NO SD CARD” respectively.
4. To pause the playback, press the **PLAY/PAUSE button**.  
Press the **PLAY/PAUSE button** again to resume the playback from pause position.
5. To skip to the next file, press the **FAST FORWARD button**.
6. To skip to the previous file, press the **REWIND button**.
7. While the file is playing, press and hold down either the **FAST FORWARD button** or **REWIND button**. Release the button when the desired part of the file is reached.
8. To skip to the next folder, presses the **FOLDER + button**.
9. To skip to the previous folder, presses the **FOLDER - button**.



## File searching

1. Press and hold the **TUNING/SEEK knob** for a few seconds until the display shows the current folder number and the total folder number in the first line.  
The second line shows the name of the current folder.
2. Rotate the **TUNING/SEEK knob** to search the desired folder. Press the **TUNING/SEEK knob** to select the folder.  
The display will show the first file of the selected folder.
3. Rotate the **TUNING/SEEK knob** to search the desired file. Press the **TUNING/SEEK knob** to select the file. The radio will start to play the selected file.

The radio supports a limited number of folders and files in the searching:

Mode	Max. no. of folders supported	Max. no. of files supported
Stop	999 (with folder name)	9999 (with file name)
Play	999 (1-99 with folder name) (100-999 without folder name)	9999 (1-999 with file name) (1000-9999 without file name)

### Play mode

During USB memory device or SD card is playing,

1. Press the **MENU button**,
2. Rotate the **TUNING/SEEK knob** until the display shows "Play mode". Press the **TUNING/SEEK knob**.
3. Rotate the **TUNING/SEEK knob** to the desire play mode and press the **TUNING/SEEK knob** to confirm.

The radio will step through the following options:

Repeat 1 → Repeat Folder → Repeat All → Random → Normal Play

Repeat 1	Repeatedly play the file you are listening to.
Repeat Folder	Repeatedly play the files within the folder you are listening to.
Repeat All	Repeatedly play all files in the USB memory device or SD card.
Random	Play all files in the USB or SD card once in random order.

The selected Play Mode is indicated on the right of the top line of the display by an icon. No icon is shown when in Normal Play mode.

### Information function

During USB memory device or SD card playback, press the **INFO button** to cycle through the following information (only if this information is present with the file on the memory device):

File name (song) → Folder name → Artist name → Album name → Total no. of files on the USB stick or SD card → Bit Rate → Clock time and Date → Normal playback status (play time)

## AUX IN MODE

A 3.5mm stereo **Aux In socket** is provided on the side behind the rubber cover, for connecting an external audio device such as MP3 player or CD player (not included with this radio).

1. Connect an audio SOURCE to the **Aux In socket** on the backside of the radio.
2. Press the **SOURCE button** to select AUX input. Display will show "AUX IN".
3. Play the external player.
4. Adjust the volume of both the radio and the player for comfortable listening.
5. After use, close the rubber cover to prevent moist or dust from entering into the sockets and radio.

**Notes:** Never use the AUX-IN socket in rainy or moist conditions to prevent moist from entering the radio. Keep the rubber cover closed under these conditions.

The Auto-Power management function will be activated in AUX mode. If there is no signal\* from the AUX input jack for a period over 15 minutes, the unit will automatically switch to standby mode. The operation indicator and the LCD will go off in such case. Pressing the **ON/OFF button** will wake up the unit.

\* Also when the incoming signal from the external device is too low and cannot be detected for a period of over 15 minutes by the Auto-Power management, the radio will switch to standby mode.

To prevent this raise the output level of the external device enough to be detected.

## SETTING THE CLOCK

The clock can only be set when the radio is in standby mode. If no buttons are pressed for 5 seconds, the radio will exit the clock setup and the setting is cancelled.

1. Press and hold the **TUNING/SEEK knob** for 12 seconds until the hour digits flash on the display.
2. Rotate the **TUNING/SEEK knob** to set the hour.
3. Press the **TUNING/SEEK knob** to confirm, the minute digits flash.
4. Rotate the **TUNING/SEEK knob** to set the minute.
5. Press the **TUNING/SEEK knob** to confirm, the day flashes on the display.
6. Rotate the **TUNING/SEEK knob** to set the current day.
7. Press the **TUNING/SEEK knob** to confirm, the month flashes.
8. Rotate the **TUNING/SEEK knob** to set the current month.
9. Press the **TUNING/SEEK knob** to confirm, the year will then flash on the display.
10. Rotate the **TUNING/SEEK knob** to set the current year.
11. Press the **TUNING/SEEK knob** to confirm, "SYNCKLOCK ON" flashes.
12. Rotary the **TUNING/SEEK knob** to select "SYNCKLOCK ON" or "SYNCKLOCK OFF".
13. Press the **TUNING/SEEK knob** to confirm and finish the clock setting.

## SETTING THE ALARM

The alarm can only be set when the radio is in standby mode. If no buttons are pressed for 10 seconds, the radio will exit the alarm setup and the setting is cancelled. Or press the MENU button during alarm setup, the radio will also return to standby mode without saving the adjusted alarm settings.

### Setting the alarm clock

1. Press the **MENU button** for about 3 seconds, the display shows "ALARM SET" and the hour digits flash on the display.
2. Rotate the **TUNING/SEEK knob** to set the hour.
3. Press the **TUNING/SEEK knob** to confirm. The minute digits flash.
4. Rotate the **TUNING/SEEK knob** to set the minute.
5. Press the **TUNING/SEEK knob** to confirm.
6. The display will then show "ALARM SOURCE". You may choose "BUZZER", "DAB", "FM RADIO", "USB" or "SD". Rotate the **TUNING/SEEK knob** to select. If "DAB" is selected, the last listened station will be played when the alarm fires.
7. Press the **TUNING/SEEK knob** to confirm.
8. The display will then show "VOL XX". Rotate the **TUNING/SEEK knob** to change the alarm volume.
9. Press the **TUNING/SEEK knob** button to confirm.

Note: When USB or SD has been set as alarm source, the radio will automatically start repeat all play back during alarm period.

Note: If USB or SD has been set as alarm source and the related mass storage device is not correctly inserted into the USB or SD socket, system will fire buzzer alarm when the alarm is activated.

### Switching on/ off the alarm

To switch the alarm on, press the **MENU button** briefly. The alarm icon will be shown at the top left corner. To switch the alarm off, press the **MENU button** briefly again. The alarm icon will be disappeared.

Press the **ON/OFF button** to turn off the alarm when it is firing.

## LOUDNESS

The Loudness function enables to get compensation on lower and higher frequency. The effect will be more audible when the radio is in a lower volume level (Dynamic Loudness).

1. Press the **LOUDNESS button** to enable the loudness, the display shows "Loudness On".
2. Press the **LOUDNESS button** again to disable the loudness, the display shows "Loudness Off".

## TONE

The Tone function enables the user to adjust the lower and higher sound frequencies.

1. Press the **ON / OFF button** to turn on the radio.
2. Press and hold the **VOLUME/TONE knob** for about 3 seconds, the display shows "BASS 0".
3. Rotate the **VOLUME/TONE knob** to set the desired Bass level.
4. Press the **VOLUME/TONE knob** to confirm, the display shows "TREBLE 0".
5. Rotate the **VOLUME/TONE knob** to set the desired Treble level.
6. Press the **VOLUME/TONE knob** to confirm and return to normal display.

## LANGUAGE SETTING

The radio can be configured to a different language.

1. Press the **ON/OFF button** to turn on the radio.
2. Press the **MENU button**, and then rotate the **TUNING/SEEK knob** until the display shows "System".
3. Press the **TUNING/SEEK knob**; rotate the **TUNING/SEEK knob** until the display shows "Language".
4. Press the **TUNING/SEEK knob** to enter the language adjustment menu.
5. Rotate the **TUNING/SEEK knob** until the desired language appears on the display (default is English).
6. Press the **TUNING/SEEK knob** to confirm your choice. The display will change to the chosen language.

## SOFTWARE VERSION

The software display cannot be altered and is just for your reference. You can only view the software version in DAB, FM or Bluetooth mode.

1. Press the **ON/OFF button** to switch on the radio.
2. Press the **SOURCE button** to select FM or DAB, or Bluetooth mode.
3. Press the **MENU button** until the display shows "Full Scan" at DAB, or "Scan setting" at FM, or "Disconnect BT" at Bluetooth mode, and then rotate the **TUNING/SEEK knob** until the display shows "System".
4. Press the **TUNING/SEEK knob**; rotate the **TUNING/SEEK knob** until the display shows "SW version".
5. Press the **TUNING/SEEK knob** to view the software version.
6. Press the **TUNING/SEEK knob** back to the last menu, and press the **TUNING/SEEK knob** again to return to the normal radio display.

**Notes:** USB socket inside battery compartment is for upgrading the software of the device.

## SYSTEM RESET

If the radio fails to operate correctly, or some digits on the display are missing or incomplete, carry out the following procedure.

1. Press the **ON/OFF button** to switch on the radio.
2. Press the **MENU button**,
3. Rotate the **TUNING/SEEK knob** until the display shows "System". Press the **TUNING/SEEK knob**.
4. Rotate the **TUNING/SEEK knob** until the display shows "Factory reset". Press the **TUNING/SEEK knob**.
5. Rotate the **TUNING/SEEK knob** to select between "Yes" or "No". Select "Yes" if you wish to reset the radio; otherwise, select "No" to cancel the selection.
6. Press the **TUNING/SEEK knob** to cause the factory reset.
7. A full reset will be performed. All presets and the station list will be erased. All settings will be set to the default values.  
The display will show "WELCOME TO DIGITAL RADIO" for a few seconds, and then the radio will automatically perform an auto scan of the Band III DAB channels and the FM band.

In case of malfunction due to electrostatic discharge; reset the product as above to resume normal operation. If you are not able to perform the reset operation as above, remove and reconnect the power supply.

## BACKLIGHT

LCD backlight configuration

1. Press the **ON/OFF button** to turn on the radio.
2. Press the **MENU button**, and then rotate the **TUNING/SEEK knob** until the display shows "System".
3. Press the **TUNING/SEEK knob**; rotate the **TUNING/SEEK knob** until the display shows "LCD backlight".
4. Press the **TUNING/SEEK knob** to enter the LCD backlight adjustment menu.
5. Rotate the **TUNING/SEEK knob** to select "on" in order to keep backlight always lightened when the radio is turned on with AC power supply;
6. Or rotate the **TUNING/SEEK knob** to select "off" (by default) so that the backlight will be lightened for about 10 seconds whenever a button is pressed with AC power supply.
7. Press the **TUNING/SEEK knob** to confirm your choice.

Note: The LCD backlight option "on" is only functional when the radio is powered by AC power supply. When the radio is powered by battery power supply, the LCD backlight is switched to option "off" – 10 seconds lightened when a button is pressed. When the radio is connected to mains AC power again, the last user setting will be applied again.

## BLUETOOTH LED

Bluetooth LED configuration

Press the **ON/OFF button** to turn on the radio.  
Press the **MENU button**, and then rotate the **TUNING/SEEK knob** until the display shows "System".  
Press the **TUNING/SEEK knob**; rotate the **TUNING/SEEK knob** until the display shows "Bluetooth LED".  
Press the **TUNING/SEEK knob** to enter the Bluetooth LED adjustment menu.  
Rotate the **TUNING/SEEK knob** to select "on" in order to keep backlight always lightened when the radio is turned on with AC power supply;  
Or rotate the **TUNING/SEEK knob** to select "off" (by default) so that the backlight will be lightened for about 10 seconds whenever a button is pressed with AC power supply.  
Press the **TUNING/SEEK knob** to confirm your choice.

Note: The Bluetooth LED option "on" is only functional when the radio is in Bluetooth mode. If the Bluetooth LED option is set to "off", this blue LED will be turned off either mobile phone is connected (not blinking) or not connected (blinking).

## NAME

This radio is supporting users to customize the radio's name. If the radio has been renamed, the new name of the radio will be shown when the radio is turning off or entering to standby.

1. Press the **ON/OFF button** to turn on the radio.
2. Press the **MENU button**, and then rotate the **TUNING/SEEK knob** until the display shows "System".
3. Press the **TUNING/SEEK knob**; rotate the **TUNING/SEEK knob** until the display shows "Name". Press the **TUNING/SEEK knob**.
4. Rotate the **TUNING/SEEK knob** to select the letters. The maximum length of new name is 16 letters' long.
5. Press the **TUNING/SEEK knob** to confirm the current selection. By pressing this **TUNING/SEEK knob**, the cursor will be moved to next position for selection.
6. Press the **P3/ ◀◀** or **P4/ ▶▶** to move the cursor to left or right cyclically.
7. Repeat step 4 to step 6 to edit the new radio name.
8. To complete editing the new radio name, you can either edit all the 16 letters or press the **MENU button**.
9. When finishing editing the radio name, the LCD will display "Confirm changes" in the first line, and display "OK" to save the changes or "Cancel" to discard the changes.
10. To confirm the changes, rotate the **TUNING/SEEK knob** until "OK", and then press the **TUNING/SEEK knob** to exit. After this action, the radio will save the new name.
11. To cancel the changes, rotate the **TUNING/SEEK knob** until "Cancel", and then press the **TUNING/SEEK knob** to exit. After this action, the radio will discard the changes and keep the current radio name as for display.
12. When next time the radio is turning off, the LCD will show "Welcome" in the first line and the new name in the second line.
13. When the radio is turning off, the LCD will show "Goodbye" in the first line and the new name in the second line.

If there were no user operating by the panel buttons for more than 20 seconds during editing, the radio would automatically exit the rename function without saving any of the changes.

Notes: The default radio name is empty. And the new edited name will be lost and back to default after executing factory reset in the menu.

Notes: The radio is supporting maximum 16 letters as the new name of the radio

## WARRANTY

This radio has a 2 year limited warranty.

**WARNING ! Warranty becomes void once the radio cabinet has been opened or any modifications or alterations to the radio have been made !**

The terms of the warranty of this radio do not cover the following:

- Damage caused by misuse, abuse, neglect, alterations, accidents or unauthorized repair.
- Normal wear and tear.
- Batteries

## SPECIFICATIONS

### Technical data

This device is noise-suppressed according to the applicable EU directives.  
This product fulfills the European directives 2006/95/EC, 2005/32/EC and 2004/108/EC.  
This device conforms to the safety regulation DIN EN 60065 (VDE 0860) and therefore the international safety regulation IEC 60065.  
Never open the device casing. The manufacturer will not accept any liability for damage resulting from improper handling. The type plate is located on the bottom of the device.

### Environmental note



This product has been manufactured with high quality parts and materials, which can be reused and recycled.

Therefore, do not throw the product away with normal household waste at the end of its service life. Take it to a collection point for the recycling of electrical and electronic device. This is indicated by this symbol on the product, in the operating manual and on the packaging.

Please find out about collection points operated by your local authority. Help protect the environment by recycling used products.

### Power supply

Mains operation: AC 230 V ~ 50/60Hz

Battery operation: 6 x AM3/AA/LR6

(Batteries of PerfectPro brand are highly recommended to be used)

### Power consumption (mains supply)

Operation: < 24 W (MAX)

Standby: < 1 W

### Frequency coverage

FM 87.50MHz – 108.00 MHz

DAB 174.928MHz – 239.200MH

### Speaker

Size 1 x Ø77mm

Impedance 8 ohms

### Output Power

Nominal 1 x 7W

### Aux in socket

Ø3.5mm