



Owner's Manual

PERSONAL TELECOM, INC.
www.perstel.com
PMANWHF00041

DAB
Digital Audio Broadcasting

Portable Digital Audio

DR201



SAFETY PRECAUTIONS

To prevent injury and/or damage, take the following precautions:

- 1 Make sure you keep the antenna away from the mains or high voltage electricity source .
- 2 Make sure you keep the Power switch at OFF position when replacing batteries.
- 3 Make sure the batteries are NOT reversed.
- 4 If the unit becomes very hot, turn off the power immediately and consult your **adapt™**, dealer.
- 5 Do not drop the unit on the ground or subject to strong shock.
- 6 Do not attempt to dismantle the unit.
- 7 Keep the unit away from water or damp environments.
- 8 Keep away from direct sunlight or excessive heat or humidity.
- 9 Remove the batteries when you do not use the product for a long time.
- 10 Do not clean the unit with chemicals such as benzene and alcohol.



WHAT IS DAB ?

The DAB system is a new digital format, which can provide crystal-clear, near CD-quality audio and good reception even when moving in cars or trains.

A DAB broadcast consists of a high speed data stream on a radio channel called an Ensemble.

An Ensemble is made up of several service components, which can be individual radio stations or data services. Each service, or station can carry other useful information in addition to the audio signal, such as the name of the station, news headlines or program information.

This is displayed on your DR201 when the station is selected.

A key feature of DAB radio is that stations can be added when additional channels are required for a particular time and events. For example, an extra secondary station or secondary service could be added for the commentary on a sports event. At the end of the event, the listener is automatically returned to the primary service or station.



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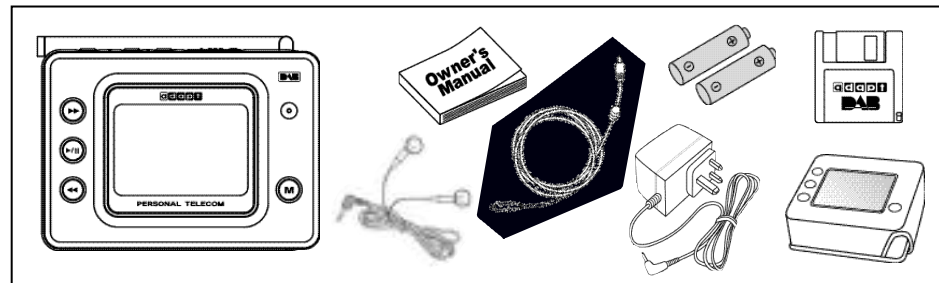
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1 What is in the Box?

- DR201 DAB Digital Radio Receiver
- Stereo Earphone
- Owner's Manual
- 2 AA Alkaline Batteries
- Installation Diskette
- USB Cable
- Carrying Case
- Adaptor

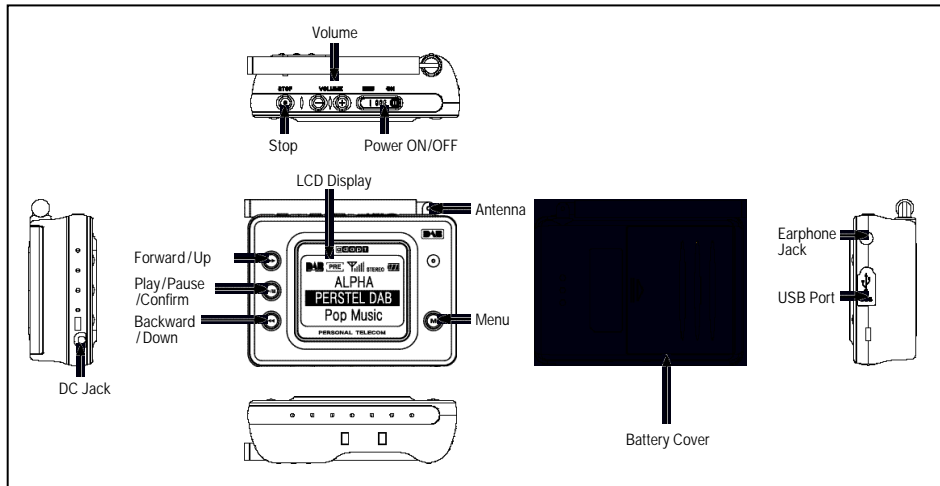




1. PREPARATION

1. PREPARATION

2 Controls Diagram



3 Keys and Buttons

Keys & Buttons	Name	Functionality
	Power ON/OFF	Slide to turn on / off
	Play/Pause/Confirm	Push to Play/Pause songs at Music Player Mode Push to confirm selection in [MENU] mode Push to select highlighted line in DAB mode
	Forward / Up	Push to search next CHANNEL or Up MENU item Push and hold for auto forward search
	Backward / Down	Push to search previous CHANNEL or Down MENU item Push and hold for auto backward search
	Volume up	Push to increase volume Push and hold for continuous control
	Volume down	Push to decrease volume Push and hold for continuous control
	Menu	Press to enter the [MENU] Press to exit the [MENU] Press to exit to the upper [MENU] during Menu Selection
	Stop	Press to stop Music Play at Music Player Mode.



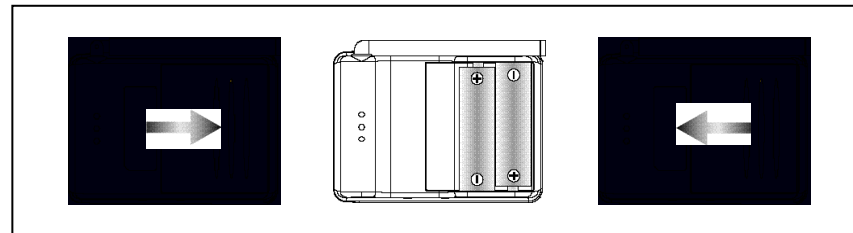
4 LCD Display

DAB Mode		Music Play Mode
Fully Tuned	Adjusting Volume	Playing Music

5 Preparation to Use

- Battery insertion/replacement

Make sure the power switch is at the "OFF" position before battery insertion or replacement.



Push the arrow marking on the battery cover and slide the battery cover to the right. Open the battery cover.

Insert two(2)AA sized alkaline batteries into the compartment following the polarity indication.

Pull the ribbon to release old batteries for replacement.

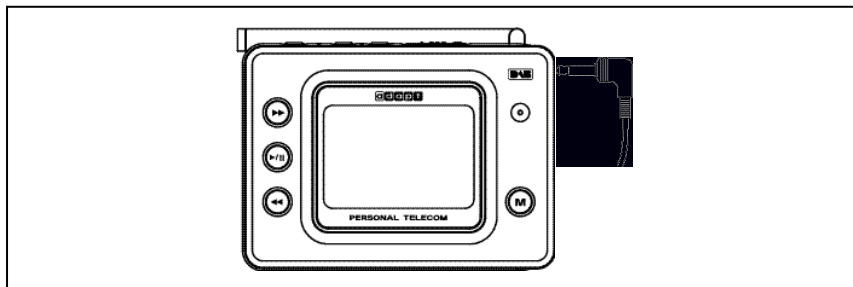
Place the battery cover on the original position and slide it to the left until it clicks.

For safety purpose, remove batteries from the unit when not used for a long time.



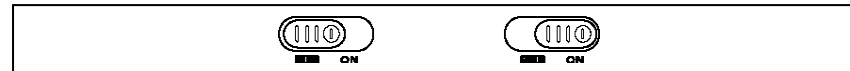
· Plug-in Earphone

Before use, plug in the Earphone gently into the Earphone jack on top of the unit. Make sure you use the Earphone supplied or one designed for stereo portable music systems to avoid possible damage.



1 Power ON/OFF

Slide POWER Switch to "ON" position. The display will turn on in few seconds.



DR201 saves the last station and settings when powered off. When DR201 is powered on again, it automatically recalls and resumes operation at the last saved status.

To turn the unit off, slide the Power Switch to the "OFF" position.

2 Antenna Setting

Depending on the model and the country of use, the DR201 is designed to work either in Band-III or L-Band, or both. In order to maximize receiving performance you may need to adjust antenna length. For optimum reception in Band III the antenna should be fully extended. In strong signal areas it is possible to reduce the antenna length without loss of quality.

- When reception is weak you may need to redirect antenna position for better reception.
- Refer to Regional Frequency Table at Appendix 5.

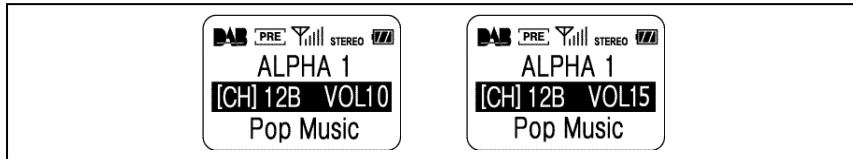


3 Volume Control

Adjust volume level to a desired position by pressing Volume (+ /-) button. DR201 has 21 steps of volume control.

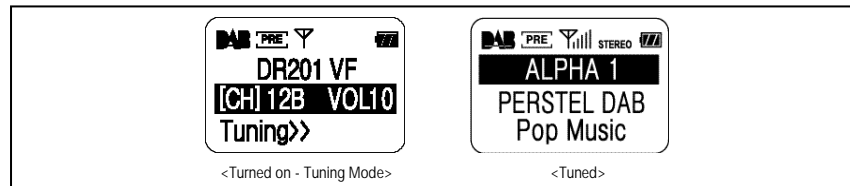
When volume control button is pressed and held volume level will gradually be raised or lowered.

This volume control feature is common to DAB, Music Player and FM Radio Mode.



1 Ensemble Tuning

When DR201 is turned on in DAB Radio mode, it begins tuning from the last received channel.



However when the incoming signal is weak or no signal is available, you will need to retune the receiver. The display will be as above <Turned on - Tuning Mode>

· Tuning an Ensemble: At Preset Tune Mode (**PRE** appears as Tuning Icon)

Press (⏪) or (⏩) repeatedly until the desired channel is displayed.

When tuned to the desired channel, it may take 1- 2 seconds for the receiver to capture the signal and the display will change to <Tuned> as shown above.

When tuned, the name of the Service Component or individual station is shown on the first line of the display, and this line is highlighted.



3. DAB OPERATION

The name of the Ensemble is shown on the second line of the display.

The third line of the display shows additional information called DLS. This will appear after 1 to 3 seconds and may show programme information, news headlines or other information depending on the station. It is possible to display other information on this line; (page 19).

Channel number and Volume level are replaced by the Ensemble name until next volume adjustment is made.

• Tuning an Ensemble : At Manual Tune Mode(appears as Tuning icon)

Press () or () repeatedly until the desired channel is displayed.

When tuned to the desired channel, it may take 1- 2 seconds for the receiver to capture the signal and the display will change to <Tuned> as shown on previous page.


When tuned, the name of the Service Component or individual station is shown on the first line of the display, and this line is highlighted.

The name of the Ensemble is shown on the second line of the display.



The third line of the display shows additional information called DLS. This will appear after 1 to 3 seconds and may show programme information, news headlines or other information depending on the station. It is possible to display other information on this line; (page 19).

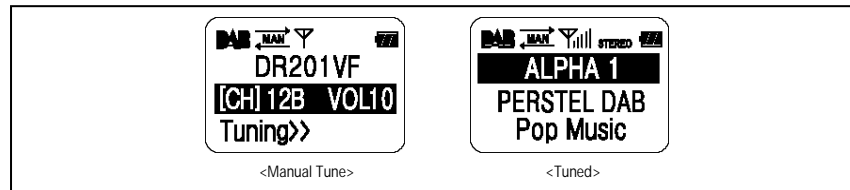
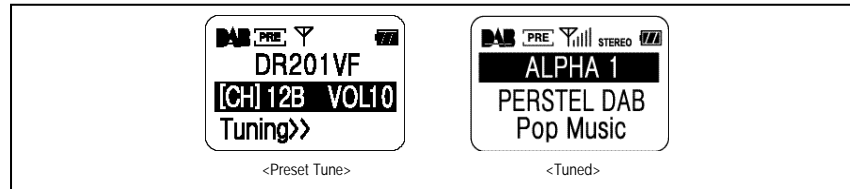
Channel number and Volume level are replaced by the Ensemble name until next volume adjustment is made.

• Changing the Ensemble (or appears as Tuning Icon)

Press the Confirm () button to highlight the second line of the display where the Ensemble name is displayed.

3. DAB OPERATION

Press () or () repeatedly until the desired channel is displayed.

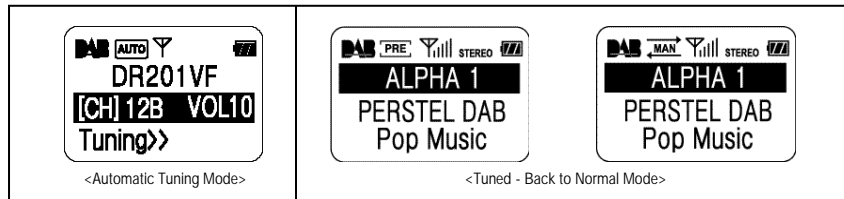




· Automatic Tuning (**AUTO** appears as Tuning Icon)

Press the Confirm (**ENTER**) button to highlight the second line of the display.

Press and hold (**RIGHT**) or (**LEFT**) till **AUTO** appears as Tuning icon.

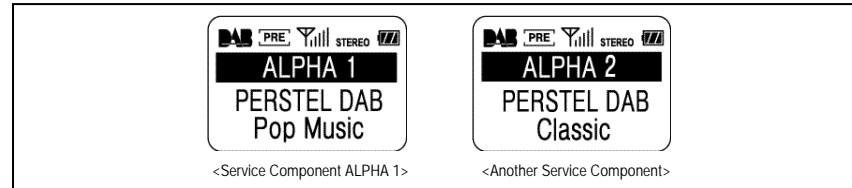


When signal is captured, the Ensemble name is displayed at second line while Primary Service Component name is on first line and other Service Information is on bottom line.

Tuning mode is then returned to normal mode displaying **MAN** or **PRE** as Tuning Icon.

When signal is not captured until the end of channel loop, the unit automatically moves to the first channel for tuning.

2 Service Components Selection



When the unit is tuned, the highlighted line is the first line of the display where the Service Component name is displayed.

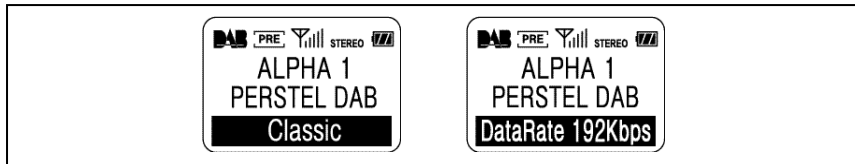
Press (**RIGHT**) or (**LEFT**) button for other service components. Some Service components have "secondary service components" which may form an additional channel. These will be listed automatically after the primary component.

3 Displaying Other Service Information

When Ensemble and Service Component settings are done, you may wish to see other services provided by broadcasters.

Press the Confirm (**ENTER**) button to highlight the third line of the display.

Press (**RIGHT**) or (**LEFT**) to see other available Service Information.



The following Service Information is available to be displayed. Note that some of the information may not be available, depending on the station tuned.

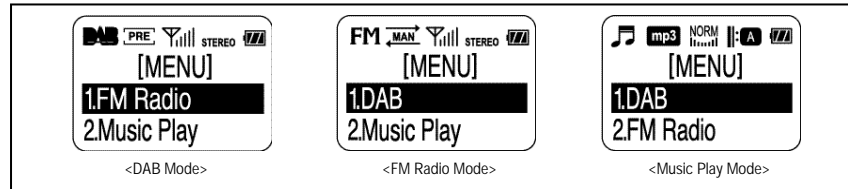
- Dynamic Label
- Program Type
- Data Rate Label
- Current Time (If transmitted by the service)
- DAB Mode information

1 DR201 Other Modes and Settings:MENU Button(Ⓜ)

DR201 has a Music Play, and FM Radio features in addition to the DAB receiver. The mode of operation and other settings are controlled with the MENU button.

To change the DR201 mode ;

Press the MENU (Ⓜ) button. The Menu will be displayed.



The menu options are available in DAB mode

1. FM Radio
2. Music Play
3. Button Hold
4. Backlight
5. Contrast
6. Preset Tune
7. Manual Tune



4. DR201 SETTING

The menu options are available in FM Radio mode

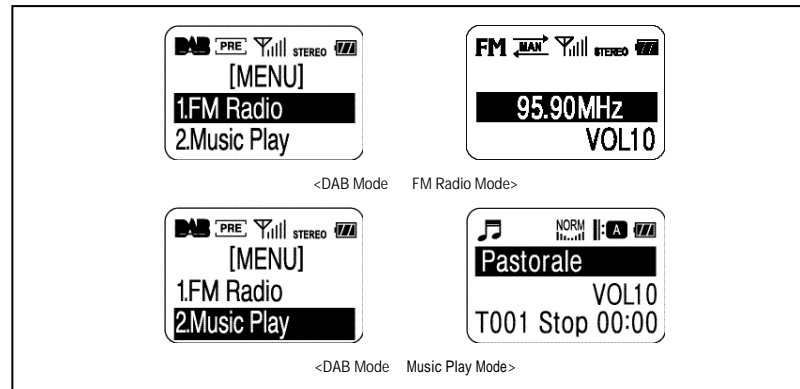
1. DAB
2. Music Play
3. Button Hold
4. Backlight
5. Contrast

The menu options are available in Music Play mode

1. DAB
2. FM Radio
3. Button Hold
4. Backlight
5. Contrast
6. Play Mode
7. Equalizer

4. DR201 SETTING

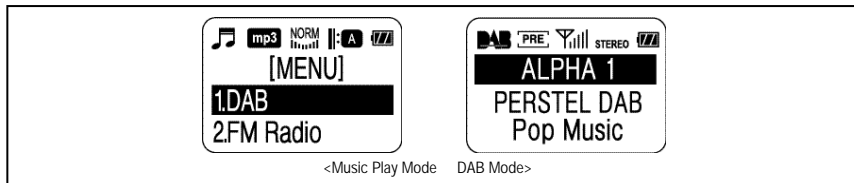
- Choose the desired Menu option by pressing (→) or (←) so that the desired selection is highlighted, and then press Confirm (⏏).





4. DR201 SETTING

4. DR201 SETTING



2 Adjustment of Display

It is possible to adjust the Backlight and Contrast level.

· Backlight Setting

Press the MENU (M) button. The Menu is displayed.

Press (→) or (←) so that the Backlight selection is highlighted, and then press Confirm (↵).

Choose desired Backlight duration level by pressing (→) or (←), and press Confirm (↵).

To cancel and go back to the original setting, press the MENU (M) button at any time.

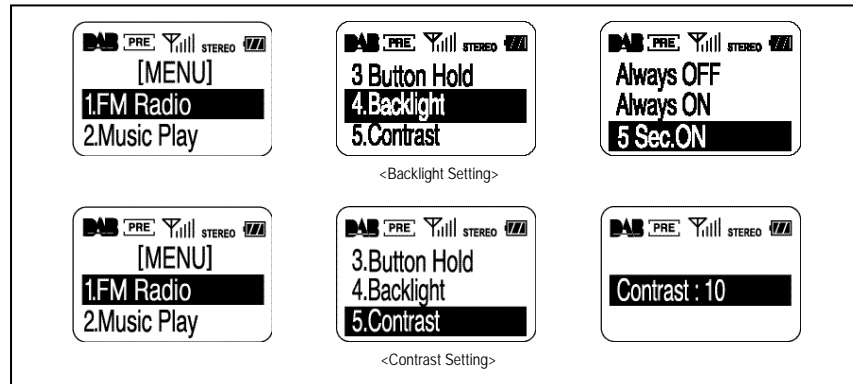
· Contrast Setting

Press the MENU (M) button. The Menu is displayed.

Press (→) or (←) so that the Contrast selection is highlighted, and then press Confirm (↵).

Adjust Contrast level by pressing (→) or (←), and press Confirm (↵).

To cancel and go back to the original setting, press the MENU (M) button at any time.



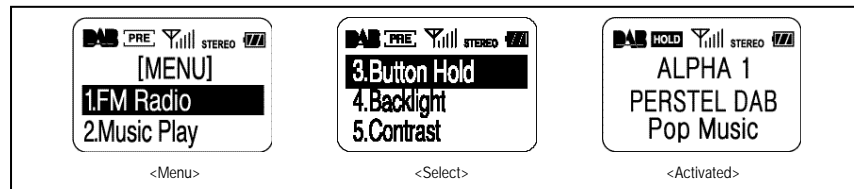


3 Button Hold

When DR201 is fully tuned and your settings are personalised, you can lock the keys to prevent accidental button presses.

Press the MENU (M) button. The Menu is displayed.

Press (←) or (→) button so that the Button Hold selection is highlighted, and then press Confirm (✓) to activate Button Hold.



The HOLD icon appears when Button Hold is activated. No key operation is accepted.

To deactivate Button Hold, press the Confirm button (✓) for more than 2 seconds.

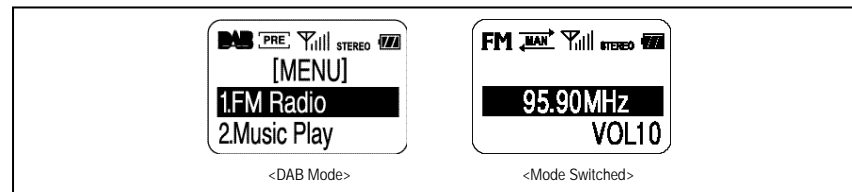
HOLD icon disappears and key operation works normally.

1 Switching to FM Radio Mode

Press the MENU (M) button. The Menu is displayed.

Choose the FM Radio option by pressing (←) or (→) so that the FM Radio selection is highlighted, and then press Confirm (✓).

The FM icon appears when the mode switching is done.



2 Frequency Tuning

· Manual Tuning

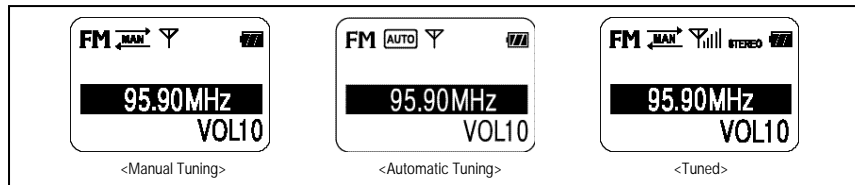
To change the current frequency, press (←) or (→) until the desired frequency is displayed.

When a radio signal is tuned, the antenna signal bars and STEREO or MONO icons appear.

The tuning icon appears as **MAN** (Normal mode + Manual Tuning mode).



5 .FM OPERATION



• Automatic Tuning

When (⏪) or (⏩) is pressed and held, the unit automatically searches next available frequencies.

Tuning icon appears as **AUTO** (Automatic Tuning mode Refer to above drawing).

The unit stops and stays tuned when next available channel is captured, and the Tuning icon switches back to **MAN**.

Press (⏪) or (⏩) to stop Auto Tuning during Auto Tuning. Tuning stops and the unit returns to normal mode.

When the end of channels is reached, the unit continues tuning from the first channel.

• Switching back to DAB Mode

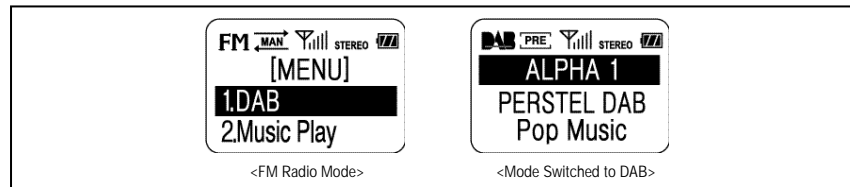
Press the MENU (⏸) button. The Menu is displayed.

Choose the DAB option by pressing (⏪) or (⏩) so that the DAB selection is highlighted, and then press Confirm (⏹).

5 .FM OPERATION

The DAB icon appears when Mode Switching is done.

NOTE : When switching from Music Play to DAB or FM Radio modes, there is a time delay of a few seconds.



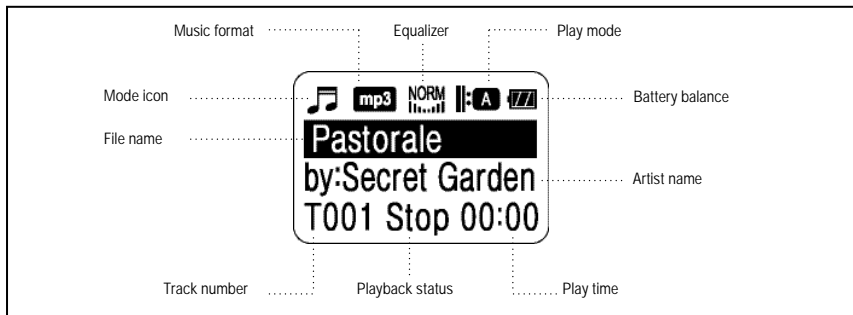


1 Mode Switching

Refer to section 1 on page 21.

2 Operation

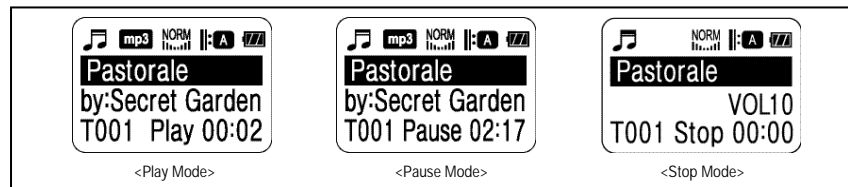
Display icons



· Play / Pause / Stop

Press (⏮) button to playback the music file.

The file name and artist name will scroll across the display if it is longer than the display line.



Press (⏮) button to pause, and press again to resume playback.

Press (⏮) button to stop music during playback or pause mode.

When stopped, the unit goes to the beginning of the song and playtime resets at [00:00].

NOTE: Most of music files have fixed data rate such as 128kbps, 192kbps etc.

However, any music file with VBR (Various Bit Rate) play time may look unstable.

· Music File Search

Press (⏮) or (⏪) button to search saved files. File name and artist name are displayed accordingly.

(Search works during playback, pause and stop modes.)



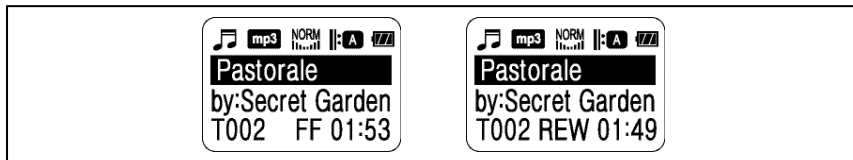
6. MUSIC PLAYER OPERATION

When you reach the desired file, press (⏵) to start playback.

If you press (⏵) or (⏴) in Pause mode, next available track is automatically played and Pause mode is released.

If you press (⏵) or (⏴) in Playback mode, next available track is automatically played.

If you press and hold (⏵) or (⏴) button in Playback mode, 'FF' or 'REW' is displayed and playtime moves quickly. This FF and REW function are useful when you wish to find a certain sector of the track quickly. The FF and REW return to normal speed when the buttons are released.



3 Music Player Settings

· Changing the Play Mode

Press the MENU (Ⓜ) button.

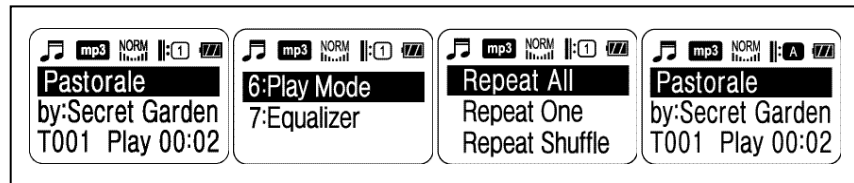
Use the (⏵) or (⏴) buttons to select Play Mode and press Confirm (⏵).

Various play modes will appear. (refer to next page for available Play Mode)

Choose one of Play Mode by using (⏵) or (⏴) button and press (⏵) to select.

The Play Mode icon changes and the unit returns to playback mode.

6. MUSIC PLAYER OPERATION



Various Play Modes



Repeat All - Plays all the stored tracks repeatedly.



Repeat One - Plays one selected track repeatedly.



Repeat Shuffle - Plays all saved tracks in random order.



Play All - plays all of the saved tracks in sequence. Each track is played only once, and playback ends at the end of last track.



6. MUSIC PLAYER OPERATION

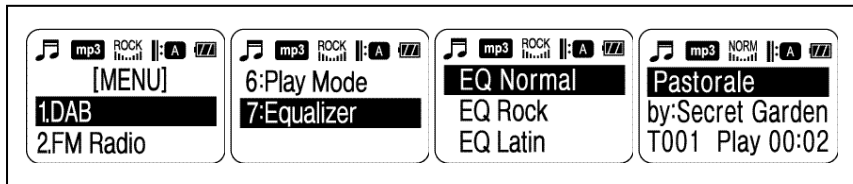
· Changing the Equalizer

Press the MENU (Ⓜ) button.

Use the (←) or (→) buttons to select **Equalizer** and press Confirm (Ⓜ).

Various Equalizer Modes will appear. (refer to followings for available Equalizer Mode)

Choose one of Equalizer Mode and press (Ⓜ) to select. Equalizer icon changes and the unit returns to playback mode.



Various Equalizer Modes

NORM ROCK LATIN DANCE JAZZ

7. REMOVABLE DISC OPERATION

1 Connecting the DR201 to a PC

The DR201 functions as a Removable Disc when connected to a PC. This not only enables you to download music files to play with the music player, but also to store any kind of data, music, graphic, document or other data files in its built-in memory. This Removable Disc lets you bring such data from office to home or anywhere there is PC (refer to system requirements).

Downloading and uploading your data is as simple as plugging-in the USB cable to the PC and to your DR201.

When you have downloaded MP3 music files with .mp3 extensions they will appear in the list of music tracks and can be played with the Music Play.

NOTE : Do not connect the USB cable from the DR201 to a PC unless the DR201 is in Music Play mode. If it is connected in DAB or FM Radio modes, some of the buttons may operate incorrectly.



2 Before File Upload / Download

- System requirements

- Pentium 133 MHz or higher
- Windows 98 / ME / 2000 / XP
- USB Port must be supported.
- 3.5" floppy disk driver

- When plugged in;

- Windows ME/2000/XP automatically recognizes it as an external Hard Disc.
- Windows 98 requires installation of Driver Program provided in the DR201 package.

- Installing USB Driver for Window 98

- Turn on DR201 and set it Music Play Mode.
- Connect the supplied USB cable to your PC.
- Connect the USB cable to DR201.
- Windows 98 will detect the USB device as a [New Hardware].



You will be prompted to add New Hardware. Proceed Next.





7. REMOVABLE DISC OPERATION

When you are asked for the driver location, insert the Installation Diskette into the floppy disc drive [A: drive] and specify driver path to [A:\ADAPT_usbdrv], and click [OK].


When ready click on [Next], Driver Installation will begin automatically.



7. REMOVABLE DISC OPERATION

When Driver Installation is completed, click [Finish] to complete the installation process.



 The above installation steps repeat twice more

- First for USB Mass Storage Class device
- Second for ADAPT device Interface



7. REMOVABLE DISC OPERATION

When installation is completed, you can check whether the DR201 has been correctly detected and installed by opening 'My Computer'. A 'Removable Disc' should have appeared in the list of disc drives.



7. REMOVABLE DISC OPERATION

3 Operation

- Connecting to a PC

NOTE: The File upload/download operation works only in [Music Play] Mode.

Turn on DR201 and switch it to Music Play Mode.

Connect the USB cable to PC first and then to the DR201.

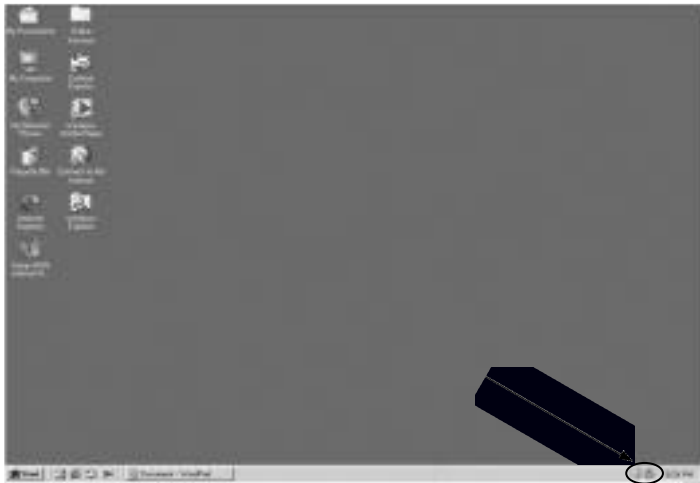
When the DR201 is connected to your PC, the display switches to [File UP/DOWN]. The PC will have a Removable Disc as shown in the following figure.





7. REMOVABLE DISC OPERATION

Also, you can find the removable disc icon on the Windows taskbar

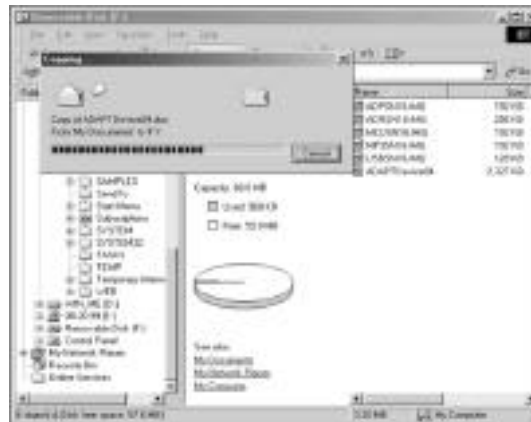


7. REMOVABLE DISC OPERATION

· File Up/Download

File Up/Download is easy, and can be done with standard Windows methods either by copying and pasting files or dragging and dropping files onto the Removable disc icon.

Music files with mp3 extensions can be played with the Music Play.





7. REMOVABLE DISC OPERATION

· Disconnecting the DR201 from the PC

If USB cable is removed arbitrarily, DR201 may get damaged, or data may be lost. To avoid such damage, make sure you follow the following procedures;



7. REMOVABLE DISC OPERATION

1. Double click the Removable Disc icon in the system tray. The Display or Eject Hardware window will be displayed.
2. Click the [USB Disk] and then click [Stop]
3. A confirm window will appear . Click the USB disc on this window and then click [OK]
4. A message will confirm that the 'USB Disc can now be safely removed from the system'. Click [OK]
5. Unplug the USB cable from the DR201.



7. REMOVABLE DISC OPERATION

· Removable Disc Format

If a bad sector has developed in the DR201 memory due to a faulty download, it may be necessary to format the DR201 internal memory.

Select [Removable Disk], and click right button of mouse. Select [Format] and click.

NOTE : All music and other files in the DR201 are erased by this operation.



7. REMOVABLE DISC OPERATION

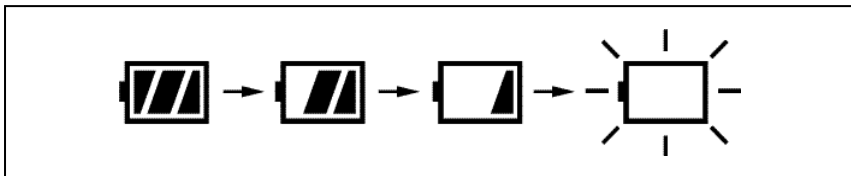
- NOTE : Make sure to click "FAT" file system when formatting the removable Disc.
Formatting under "FAT32" file system may cause malfunction of the unit.





1 Battery Operation

DR201 is a battery operated radio, and the battery display icon displays the state of the battery. When battery icon blinks you must replace the batteries immediately.



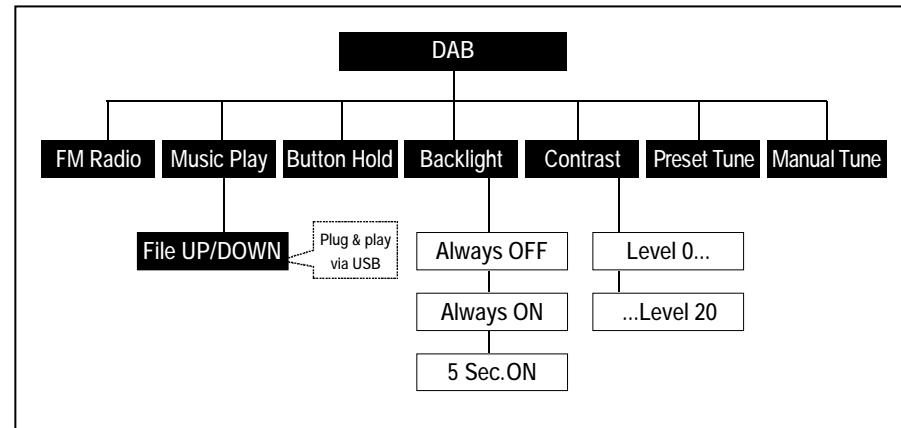
For battery replacement, refer to Preparation Guide at page 11. It is important to use high quality alkaline batteries for optimum performance.

NOTE : When the batteries are exhausted the display will show "Low Battery" and the DAB, FM Radio and Music player functions will not operate.

2 Mains Operation

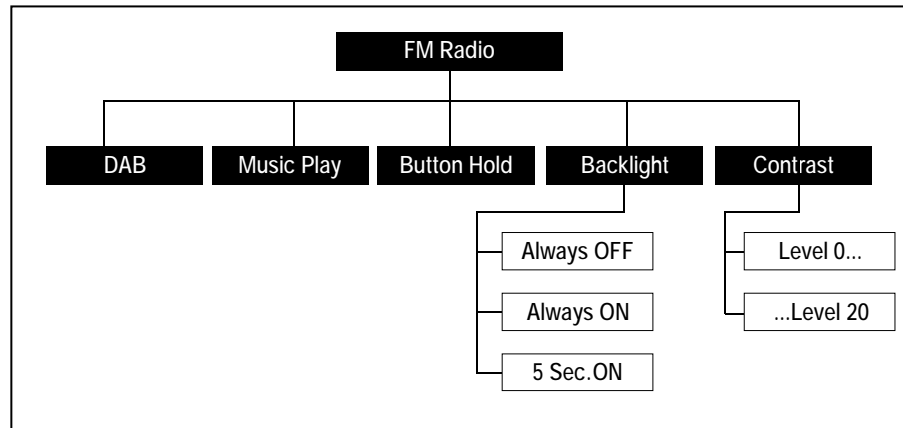
The DR201 is supplied with a mains power adaptor. To connect, plug the adaptor into the socket on the side of the unit. The internal batteries are disconnected when the power adaptor is plugged in.

Appendix 1 Menu Tree - DAB Block

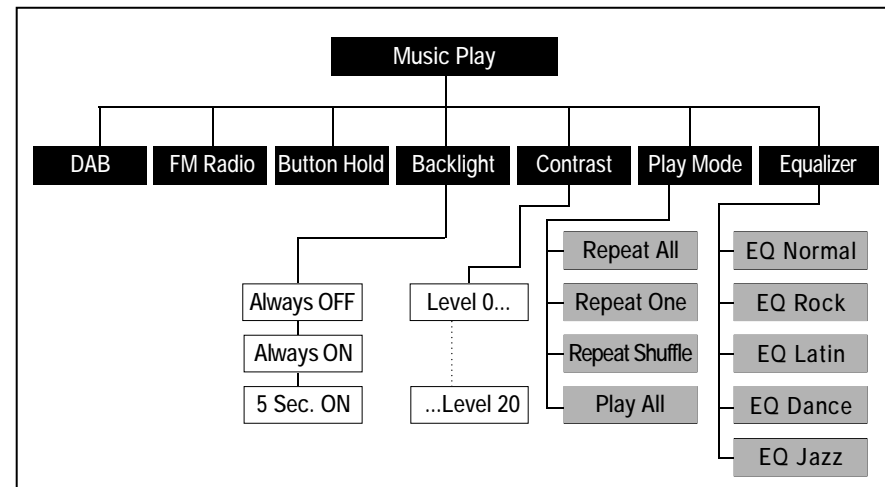




Appendix 2 Menu Tree - FM Radio Block

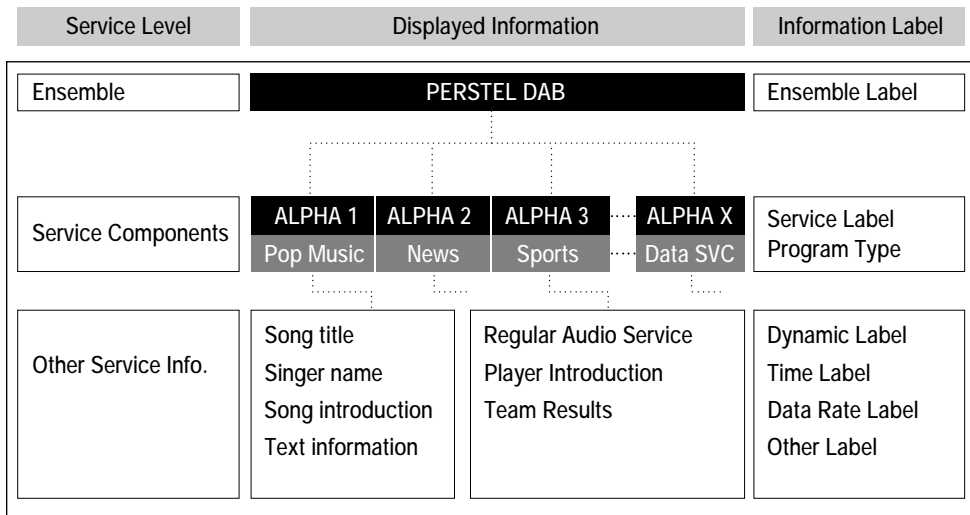


Appendix 3 Menu Tree - Music Play Block





Appendix 4 Ensemble Information Example



Appendix 5 Regional Frequency Table

1. BAND-III (Europe)

Frequency	Label	Frequency	Label	Frequency	Label
174.928MHz	5A	199.360MHz	8C	220.352MHz	11C
176.640MHz	5B	201.072MHz	8D	222.064MHz	11D
178.352MHz	5C	202.928MHz	9A	223.936MHz	12A
180.064MHz	5D	204.640MHz	9B	224.096MHz	12N
181.936MHz	6A	206.352MHz	9C	225.648MHz	12B
183.648MHz	6B	208.064MHz	9D	227.360MHz	12C
185.360MHz	6C	209.936MHz	10A	229.072MHz	12D
187.072MHz	6D	210.096MHz	10N	230.784MHz	13A
188.928MHz	7A	211.648MHz	10B	232.496MHz	13B
190.640MHz	7B	213.360MHz	10C	234.208MHz	13C
192.352MHz	7C	215.072MHz	10D	235.776MHz	13D
194.064MHz	7D	216.928MHz	11A	237.488MHz	13E
195.936MHz	8A	217.088MHz	11N	239.200MHz	13F
197.648MHz	8B	218.640MHz	11B		



2. L-BAND (Europe)

Frequency	Label	Frequency	Label	Frequency	Label
1452.960MHz	LA	1466.656MHz	LI	1480.352MHz	LQ
1454.672MHz	LB	1468.368MHz	LJ	1482.064MHz	LR
1456.384MHz	LC	1470.080MHz	LK	1483.776MHz	LS
1458.096MHz	LD	1471.792MHz	LL	1485.488MHz	LT
1459.808MHz	LE	1473.504MHz	LM	1487.200MHz	LU
1461.520MHz	LF	1475.216MHz	LN	1488.912MHz	LV
1463.232MHz	LG	1476.928MHz	LO	1490.624MHz	LW
1464.944MHz	LH	1478.640MHz	LP		

3. L-BAND (Canada)

Frequency	Label	Frequency	Label	Frequency	Label
1452.816MHz	LA	1466.768MHz	LI	1480.720MHz	LQ
1454.560MHz	LB	1468.512MHz	LJ	1482.464MHz	LR
1456.304MHz	LC	1470.256MHz	LK	1484.280MHz	LS
1458.048MHz	LD	1472.000MHz	LL	1485.952MHz	LT
1459.792MHz	LE	1473.744MHz	LM	1487.696MHz	LU
1461.536MHz	LF	1475.488MHz	LN	1489.440MHz	LV
1463.280MHz	LG	1477.232MHz	LO	1491.184MHz	LW
1465.024MHz	LH	1478.976MHz	LP		

Appendix 6 Troubleshooting

Problems	Troubleshooting
<ul style="list-style-type: none"> The unit does not turn on. 	<ul style="list-style-type: none"> Replace batteries. Battery might be exhausted. Check battery polarity.
<ul style="list-style-type: none"> A DAB signal cannot be received. 	<ul style="list-style-type: none"> Check if you are out of available DAB service area. Adjust antenna length or redirect antenna. Try other channels.
<ul style="list-style-type: none"> The audio signal is intermittent or mutes 	<ul style="list-style-type: none"> The received signal strength is too weak. Try extending or re-positioning the antenna. It may be required to try another location. Keep away from PC's or other possible interference sources
<ul style="list-style-type: none"> The DAB signals received but no sound heard. 	<ul style="list-style-type: none"> Check audio format icon. If audio format shows "DATA", no audio service is provided. Check data rate. (No sound is heard when data rate is over 256Kbps.) Earphone is not properly plugged, or malfunctioning. Replace earphone or plug-in properly. Volume is turned fully down.



Problems	Troubleshooting
<ul style="list-style-type: none"> Buttons do not work 	<ul style="list-style-type: none"> Check if " Hold " appeared on Tuning Icon. Release Button Hold mode by pressing the Confirm button (⊕) for more than 2 seconds. If USB Cable is connected to PC when in DAB or FM Radio modes, remove the USB cable.
<ul style="list-style-type: none"> LCD dim 	<ul style="list-style-type: none"> Adjust the contrast of the LCD display.
<ul style="list-style-type: none"> Backlight does not turn on 	<ul style="list-style-type: none"> Check the backlight setting and adjust.

Appendix 7 Specifications

Classifications	Specifications	Options
Frequency Range	Band-III : 174 MHz~240MHz L-BAND : 1452 MHz~1492MHz FM : 87.50 MHz~108MHz	V L (Not applicable) F
Power source	+3.0V +/-20%	
Battery	2AA size alkaline cells	
Adaptor	3V / 500mA (2.8ø)	
Display	4-Line Full graphic LCD with EL backlight	
Audio Output Power	5mW @ 16	
Audio Frequency Range	20Hz-20KHz	
Dimension (W x H x D)	84 x 60 x 24 mm	
Operating Temperature	-5°C ~ +35°C	
Ambient temperature	-40°C ~ +80°C	
Music Player Format	.mp3 (MP3 format up to 320kbps/sec)	
Flash memory size	64MB	

Information in this document is subject to change without notice.



Appendix 8 Information on Digital Radio Services in the United Kingdom.

This information is believed to be corrected in October 2002. The situation in digital radio is evolving rapidly, and you are advised to check the operators or DRDB website for up to date information.

Details of regional service area licences and maps can be found at:
<http://www.radioauthority.org.uk>

More Information, news and links can be found at:
<http://www.digitalradionow.com>

UK National Services:

BBC

Block 12B: 225.648 MHz
Operator: BBC
Ensemble Label: BBC National DAB
<http://www.bbc.co.uk/digitalradio>

Digital One

England: Block 11D: 222.064MHz
Scotland: Block 12A: 223.936MHz
Ensemble Label: Digital1 Network
<http://www.ukdigitalradio.com>

Regional Services

Aberdeen

Block 11C: 220.352 MHz, Operator: Switchdigital Scotland

Ayr

Block 11B: 218.640 MHz, Operator: Score Digital Ltd
<http://www.scoredigital.co.uk/>

Bath & West Wilts

Block 12D: 229.072 MHz, Operator: Now Digital Ltd
<http://www.now-digital.com/>

**Birmingham**

Block 11C: 220.352 MHz, Operator: CE Digital

Bournemouth

Block 11B: 218.640 MHz, Operator: Now Digital Ltd
<http://www.now-digital.com/>

Bradford/Huddersfield

Block 11B: 218.640 MHz, Operator: TWG Digital

Bristol and Bath

Block 11B: 218.640 MHz, Operator: Now Digital
<http://www.now-digital.com/>

Cardiff and Newport

Block 11C: 220.352 MHz, Operator: Capital Radio Digital

Central Lancashire

Block 12A: 223.936MHz, Operator: Emap Digital Radio

Coventry

Block 12D: 229.072 MHz, Operator: Now Digital
<http://www.now-digital.com/>

Dundee/Perth

Block 11B: 218.640 MHz, Operator: Score Digital Ltd
<http://www.scoredigital.co.uk/>

Edinburgh

Block 12D: 229.072 MHz, Operator: Score Digital
<http://www.scoredigital.co.uk/>

Exeter/Torbay

Block 11C: 220.352 MHz, Operator: Now Digital
<http://www.now-digital.com/>

Glasgow

Block 11C: 220.352 MHz, Operator: Score Digital
<http://www.scoredigital.co.uk/>

Greater London 1

Block 12C: 227.360 MHz, Operator: CE Digital

Greater London 2

Block 12A: 223.936 MHz, Operator: Switch Digital.

**Greater London 3**

Block 11B: 218.640 MHz, Operator: The Digital Radio Group (London)
<http://www.thedigitalradiogroup.co.uk/>

Greater Manchester

Block 11C: 220.352 MHz, Operator: CE Digital

Humberside

Block 11B: 218.640 MHz, Operator: Emap Digital Radio.

Isle of Man

Block 11C: 220.352 MHz, Operator: mmO2, Virgin Radio and Crown Castle International

Leeds

Block 12D: 229.072 MHz, Operator: Emap Digital Radio

Liverpool

Block 11B: 218.640 MHz, Operator: Emap Digital Radio

Northern Ireland

Block 12D: 229.072 MHz, Operator: Score Digital
<http://www.scoredigital.co.uk/>

Southend/Chelmsford

Block 12D: 229.072 MHz, Operator: Now Digital
<http://www.now-digital.com/>

South Yorkshire

Block 11C: 220.352 MHz, Operator: Emap Digital Radio

Teesside

Block 11B: 218.640 MHz, Operator: Emap Digital Radio Ltd

Tyne & Wear

Block 11C: 220.352 MHz, Operator: Emap Digital Radio

Wolverhampton, Shrewsbury and Telford

Block 11B: 218.640 MHz, Operator: Now Digital
<http://www.now-digital.com/>

The information given here is correct to the best of our knowledge, but is for guidance only, and is liable to change. Perstel Limited accepts no responsibility for any inaccuracy.



1. About Warranty Service

Personal Telecom, Inc. Warrants that this product will be free from defects in materials and workmanship for a period of one(1) year from the date of purchase. Within this period, simply take the product and your proof of purchase to any local dealer and the product will be repaired without charge for parts and labor.

Personal Telecom, Inc. reserves the right to charge for transportation. Any product which has been subject to misuse or accidental damage is excluded from this warranty.

This warranty is only applicable to a product purchased through right dealers and to a product that is presented for repair in a country where Personal Telecom. Inc, offers the product for sale.

While this warranty does not confer any legal rights other than those set out above, you may have additional statutory rights which will vary under the laws of the various countries, states, provinces and other governmental entities in which Personal Telecom. Inc's products are being sold. This warranty is subject to all statutory rights you may have in the country of purchase.

2. Product Information

Product type	MP3 player	Digital Voice Recorder	DAB Receiver
Product code			
Serial Number			
Date of purchase	/	/	(mm/dd/yy)
Dealer			
Customer	Name		
	Contact		

3. Warranty Exclusion

- Any service request due to lack of knowledge of product; Read Owner's Manual carefully.
- Misuse or improper modification; Do not open the circuitry without Service Manual.
- Majeur forces; Keep away from fire, salty water, flood etc.
- Out of product life; Charged service for parts replacement.

4. Warranty Statement

This warranty Statement will not be reissued.
Please keep with Owner's Manual with good care.