Binatone ADVENTURER 100

Personal Mobile Radio(PMR)

User Guide

TALK button
Press and hold while you're transmitting

Up and Down buttons
Press to change the speaker Volume. Press after menu button to change the channels

MENU button
Press to change Channels and sub-channels, and to switch between modes

ON/OFF button

Microphone

Socket for hands-free kit(headset) and charge under the hinged cover

CALL button
Press to send Ring tones to other handsets

What's on the display

1. If the unit is in standby mode

23:59 Time

Stop watch

2. If the unit power ON

3 Channel number(1 to 8)

32 Sub-channel number(0 to 38)

Battery power level. when the bars disappear charge the batteries

TX Shown when you are transmitting the signal

RX Shown when you are receiving the signal

DCM Dual watch-shown when you are monitoring two channels at once.

VOX Shown when the unit is in VOX (voice activated mode)

SC Shown when the unit is scanning all channels

Shown when the buttons are locked

Volume level

Shown when you are sending the call tone

1. Fitting the Battery pack

Your PMR includes 1.2V AA x 3 **rechargeable battery pack for each units.**

To remove the belt clip

It is easier to fit the batteries without the belt clip in place.

Pull the tab forward(away from the handset) to release the belt clip. Then lift the belt clip off.

Insert your fingernail behind the tab

Lift the belt clip off

To fit the batteries

1. **Loosen the screw counter clock wise direction by using a cion or your fingers. Open the battery compartment**

2. **Insert the battery pack facing battery contact plate in.**

3. **Make sure the up arrow is showing, and pointing towards the top of the handset.**

4. **Replace the cover and close the screw clock wise.**

OPEN

battery pack

To replace the belt clip

Slide the belt clip down into the slot until it clicks into place.

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2. Charging the battery pack

Lift the charge jack cover located on the side of your unit.

Mic/spk jack

Charge jack

Insert the round connector of the 7.5V DC/200mA adaptor into the charge jack.

Plug the mains adaptor into a 230V AC ,50Hz main socket with the switch on the socket set to OFF.
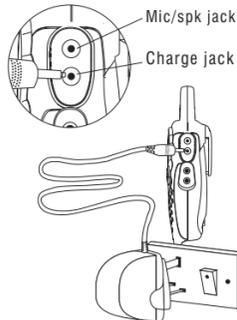
Then switch ON the main socket.

The PMR must be used with mains adaptor, provided with the unit.
Using any other adaptor will result in non -Compliance with the EN60065 and will invalidate any approval to this Apparatus.

During Charging, the battery level indicator icon will start scrolling on the display in both clock mode and PMR on mode.

It takes about 10 hours to recharge the battery fully if they've become completely run down. New battery take up to 12 hours to charge fully.

Battery Meter

The battery meter is located in the lower left side of the LCD panel. These indicate the amount of power available. As the power is used the bars will disappear. When the battery level reach it minimum level in PMR on mode, unit will emit two beep tones and automatically turn off the power and proceeds to watch mode.

Battery Life

The PMR has a built in power saver feature to make the batteries last longer. But when you are not using the PMR , it's better to switch it off to save the battery power.

Important – read these Safety Warning before you charge the battery

- When charging the handset, **use only the rechargeable Ni-NH battery pack supplied with the PMR.**
- **Don't try to charge the non-rechargeable batteries.**
- **Make sure the battery compartment cover is securely locked in place** when you are charging the battery pack.
- **Disposed of used batteries safely and in a way that will not harm the environment** – never try to burn them or put them anywhere, they could get burnt or punctured.
- **Don't leave dead batteries in your PMR .**

3. Using the Stopwatch

Standby mode(Clock Mode)
Installing the battery will automatically turn-on and proceeds to Watch mode.

To set the Time

your Watch has a 24 hour Time clock.

- In watch mode, press and hold the **MENU** button for 3 Seconds. The Hour segment in display will flash.

- Press **UP** or **Down** button to increase or decrease the hour number displayed.

- Press **MENU** button again to set the minutes. The minutes segment start to flash.

- Press **UP** or **DOWN** button to increase or decrease the minutes number displayed.

- Press and hold the **MENU** button for 3 seconds to confirm the time setting and exit the time setting mode.
  Note: Once you remove the battery from the unit, clock will reset to default time 12:00

Using Stop Watch

- In watch mode, press and hold **CALL** button for 3 Seconds. The stop watch appear on the display.

- Press **UP** button once to start the stop watch.
  Press **UP** button once to stop the stopwatch.
  Press **DOWN** button once to re-set the timer.

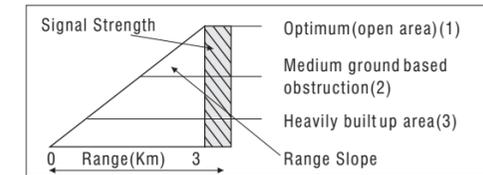- Press and hold **CALL** button for 3 second to exit from the Stopwatch mode.

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4. Using the Personal Mobile Radio

Transmitting range

The talk range depends on environmental and terrain. It will be greatest (up to about 3km or 1 3/4 miles) in wide open spaces, without obstructions such as hills or buildings. Don't try to use two PMR handsets which are less than 1.5m (5feet) apart.If you do, you may get interference.

Effective Range

The Transmission range of the product is wholly dependent on the environment or terrain in which it is being used, the following diagram attempts to guide the user on the sort of performance to expect in everyday use.

Signal Strength | Optimum(open area)(1)

Medium ground based obstruction(2)

Heavily built up area(3)

0 Range(Km) 3 Range Slope

Range Check

The transmission range will be affected as shown in the diagram above. The transmitting range typical values for different environment conditions will be (1) 3km (2) 1.5km (3) 750m. It should be remembered that these are only guide values as actual achieved distances will be dependent on the environment and terrain.

Note: To obtain the better reception, reposition the Antenna.

Important safety warning

- If you are using a head set, to protect your hearing, do not turn the volume to the highest level .
- To reduce radio frequency exposure when you're using your adventure-100, hold the handset at least 5cm(2inches)from your face.
- Never use your PMR outdoors in a thunderstorm.
- Don't use your PMR in the rain.
- If your PMR ever get wet, turn it off and remove the battery. Dry the battery compartment and leave the cover off for few hours. Don't use the PMR until it is completely dry.
- Keep the PMR out of the reach of babies and young children.

Turning ON and OFF your PMR

- To switch the PMR ON, Press and hold the ON/OFF button until the channel display comes.

- To switch the PMR OFF
  Press and hold the ON/OFF button until the channel display goes off.
  You hear a musical tone each time to confirm.

Volume control

To adjust the loudspeaker volume
- Press the **UP** or **Down** button.
  The volume level is shown by the bars on the display. You can change the volume either While you're using your PMR handset, or while the handset is idle (switched on but not in Use).

Changing the channels and sub-channels

PMR has eight channels, numbered 1 to 8. To communicate with other PMR users within range, you must all have your PMR watch tuned to the same channel.

1. Press the **MENU** button once
   The current channel number flashes on the display

2. Press **UP** or **Down** button to go to the channel you want

3. Press **TALK** button to confirm.

Each channel also has 38 sub-channels(sometime called CTCSS codes) letting you set up group of users within the same channels, for more private communication.If you have a set a sub-channel, you can communicate only with other users tuned to the same channel and sub-channel.

To turn the sub-channel function off, simply set the sub-channel to *0* (zero).Then you can communicate with any PMR user on the same channel who also turned off sub-channel operation(or whose PMR does not have the feature).

1. Press the **MENU** button **twice**
   The current sub-channel number flashes on the display.

2. Press the **UP** or **Down** button to go to the sub-channel you want

3. Press the **TALK** button to confirm.

Transmitting and Receiving.

PMR transmission is 'one way-at-a-time' – while you are speaking, you can not receive a transmission.
PMR is an open-license band – always identify yourself when transmitting, as other people may be communicating on the same channel.

To speak to another PMR user

1. Press and hold the **TALK** button so that the **Transmitting** symbol (TX) appear on the LCD panel.

2. Speak clearly into the microphone, in a normal tone - don't shout

3. When you're finished speaking, release the **TALK** button.

To listen to another PMR user

- Make sure you are not pressing the **TALK** button
  Receiving symbol(RX) is shown on the display when the other person is speaking. Don't try to transmit until they have finished.

Monitoring the current channel

Normally Watch **PMR** will not pick up very weak signals. But you can monitor the current channel for all sounds.

To activate the monitoring feature

- Press the **MENU** and **DOWN** button at the same time
  Your handset will pick up any signals on the current channel, Including background noise.

- Press **TALK** button to stop monitoring.

VOX(voice activated transmission)mode

In VOX mode your PMR will transmit whenever it detects your voice (or other noise) without the **TALK** button pressed. It will transmit for 2 seconds even if you stop talking.

The level of VOX sensitivity is shown by numbers on the display. At the highest level(level 3), the handset will pickup softer noise (including background noise); at the lowest level, it will pick up only loud noise.

To turn VOX mode ON and OFF:

1. Press **MENU** button **Three** times
   VOX icon display and *OF* flashes on the LCD panel.

2. Press **UP** button to set the level of sensitivity.
   If you press the **Down** button until *OF* appear on the display, you can turn off the VOX mode.

3. Press **TALK** button to confirm the setting.
   As long as the handset in VOX mode, **VOX** is shown steadily on the display.

Ring tone

You can send ring tone to other handsets within range and tuned to the same channel, (and sub-channel if applicable), to alert them you want to communicate with them.

- Press and release the **CALL** button
  You can hear ring tone for about two seconds, while the transmitting symbol(TX)and call signal( ) appear on the LCD panel. Any other PMR handset within the range and tuned to the same channel will hear Ring tone, and may decide to transmit to you.

Setting Call-Ring tones

1. Press **MENU** button for **Four** times, the unit will enter to Call-Ring setting mode. The LCD will display *CR* while 1 is flashing.

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2 Press UP or Down button to change the Call-Ring tone. **(5 different tones)**, the different Call-Ring tone can be heard during changing.

3 Press **TALK** button to confirm your setting after you select your desired Call-Tone.

Setting Call-Ring off
If you don't want to hear the call tone, you can set the Call-Ring mode to OFF. In this stage, you can send the call-ring(default call-ring number 1) to other party but the PMR you held will not sound.

1 Press **MENU** button for **Four** times, the unit will enter to Call-Ring setting mode.

2 Press **UP** or **Down** button until display *OF* on the LCD panel.

3 Press **TALK** button to confirm your setting.

Roger Beep ON/OFF setting
The roger Beep is a Tone which is automatically transmitted whenever the TALK button is released. This lets other person know that you have finished talk and you are now in receive mode.

To enable or disable the Roger Beep tone
1 Press the **MENU** button for **Five** times until the *On* flashing on the LCD screen.

2 Press **UP** or **Down** button to enable ("*On*" will appear on the display) or disable ("*OF*" will appear on the display) the roger tone.

3 Press **TALK** button to confirm the setting.

Key tone ON/OFF setting
This feature allows the PMR unit to sound a confirmation tone whenever keys are pressed.

To turn the Key-Tone ON or OFF
1 Press the **MENU** button **Six** times. The " *On* " icon flashes on the display.

2 Press **UP** or **Down** button to enable ('*On*' will appear on the LCD) or disable ('*OF*' Will appear on the LCD) the key tone feature.

3 Press **TALK** button to confirm your setting.

Monitoring Two channels at once(Dual Watch)
1 Press **MENU** button for **Seven** times. DCM appear on the display while "*OF*" is flashing.

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2 Select the desired channel by pressing **UP** or **Down** button.

3 Press **MENU** button once to change the CTCSS code.

4 Press **UP** or **Down** button to select the desired CTCSS code.

5 Press **TALK** button to confirm the setting.

The display switches backwards and forwards between the two channels. If handset detects a signal on either channel, it will stop and receive it. As long as the unit is in Dual watch mode, DCM is shown steadily on the display.

To end the Dual Watch mode
1 Press **MENU** button **Seven** times. The channel number flashes on the display.

2 Press **UP** or **Down** button until the "*OF*" shown on the display.

3 Press **TALK** button to exit from the Dual Watch mode.

Scanning Channels
When the Scan function is tuned on, the handset will continuously scan the through all eight channels and all 38 sub-channels until it find one on which another user is transmitting.

1 Press **MENU** and **UP** button at the same time. **SC** appears on the display, and channel number change continuously. When a signal is detected, the unit will pause.

2 Press **UP** button to continue scanning for main channel.

3 Press **Down** button to scan the Sub-channels.

4 Press **TALK** button to stop the scan and communicate.

Locking the buttons
With the button locked you can transmit (Talk), receive or monitor(MON) the current channel. But you can't change the volume (▲▼) or use the MENU button.

To lock the button
▸ Press and hold the **MENU** button until "O–n " appears on the display.

To unlock the buttons
▸ Press and hold the **MENU** button until "O–n " disappears from the display.

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5. Cleaning and care
To clean your PMR watch, use a soft cloth dampened with water. **Do not use cleaners or solvent**, which may cause damage which may not covered by guarantee.

6. Technical specification
Operating frequency 446.00625 to 446.09375 MHz(eight channels)
Channel spacing 12.5 KHz   **Output power** 0.5 W

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	446.00625	5	446.05625
2	446.01875	6	446.06875
3	446.03125	7	446.08125
4	446.04375	8	446.09375

Interference Elimination Codes
(CTCSS - Continuous Tone Coded Squelch System)

Code	Frequency(Hz)	Code	Frequency(Hz)
1	67.0	20	131.8
2	71.9	21	136.5
3	74.4	22	141.3
4	77.0	23	146.2
5	79.7	24	151.4
6	82.5	25	156.7
7	85.4	26	162.2
8	88.5	27	167.9
9	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3

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7. Guarantee and service

The Binatone Adventurer is fully guaranteed for 12 months from the date of purchase shown on your sales receipt. The guarantee does not cover damage by misuse or negligence, or by excessive voltages.

Please keep your sales(till)receipt-this is your guarantee. You should also keep the original packaging material.

When you first unpack your Binatone Adventurer, check for visible damage. If you see any damage, don't use the handsets-return the whole system to where you bought it.

If your Binatone Adventurer develops a fault, first check the points above. If you can't solve the problem, return the whole system as follows;

While the unit is under Guarantee
1 Pack up all parts of your Adventurer, using the original packaging. Remember to include the mains adapter.
2 Return the unit to the shop where you bought it, making sure you take your sales receipt.
3 In the unlikely event that you need to return your Adventurer to our Repair Centre while it is under Guarantee, please send your sales receipt with it, There will be a £5 handling charge for repair under Guarantee.

Repair after the Guarantee has expired
If the unit is no longer under Guarantee, first follow steps **1** as for repair under Guarantee. Then...
2 Call our Service Department on **0845 345 9677** and ask for a quotation of the repair charge and details of where to send your Adventurer3 for repair.
3 Return your Adventure to the address given by the Service Department, making sure you include your name and address, and a cheque or postal order for the value of the repair charge.

This does not affect your statutory rights.

Binatone Telecom plc operates a policy of continuous product improvement, and so reserves the right to make changes to the product and functions without notice.

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8. Troubleshooting

Problem	Possible cause ☞ solution
No power	▪ Battery is low or not fitted correctly ☞ check; ▪ PMR is not switched on ☞ check
weak reception/ no reception/ noisy reception	▪ Battery is low or not fitted correctly ▪ Other user is not within range ☞ check ▪ PMR are not tuned to the same channel ☞ check ▪ Noisy reception is more likely when using high numbered sub-channels ☞ **try using lower-numbered sub-channel, agreeing it with the rest of your group first** ▪ Volume level is too low ☞ **increase the volume** ▪ ☞ **Speak in a normal voice, 5-8cm(2-3 inches) away from the microphone** ▪ Local conditions are impairing reception ☞ **move to a different location.** away from obstructions and as high as possible ▪ Other user is not transmitting ☞ **check** ▪ Other user is too close ☞ **check** ▪ There's interference from other users on the same channel ☞ **agree to use a different channel**
Cannot change channels	▪ PMR is locked ☞ check ▪ Battery is low or not fitted correctly
In VOX mode, the handset transmits all the time	▪ Background noise is high ☞ **move to a quieter place** ▪ VOX sensitivity is too high ☞ **set it to a lower level**
In VOX mode, the handset doesn't transmit	▪ VOX sensitivity is too low ☞ **set it to a higher level** ▪ ☞ **Speak in a louder voice, nearer to the microphone**
Cannot charge The batteries	▪ Make sure the mains power lead is firmly plugged into the charger jack. ▪ Make sure the mains power adapter is plugged in, and that mains power is switched on at the socket. ▪ Use only 3.6V Ni-MH batteries, as supplied with the unit. You may need to recharge the battery pack after many hours of use.

This equipment is intended for used in:

Austria	√	Finland	√	Latvia	√	Spain	√
Belgium	√	France	√	Liechtenstein	√	Sweden	√
Bulgaria	√	Germany	√	Luxembourg	√	Switzerland	√
Croatia	√	Greece	√	The Netherlands	√	Turkey	√
Cyprus	√	Hungary	√	Norway	√	UK	√
Czech	√	Iceland	√	Poland	√	Romania	√
Denmark	√	Ireland	√	Portugal	√		
Estonia	√	Italy	√	Slovenia	√		

√ Countries of use