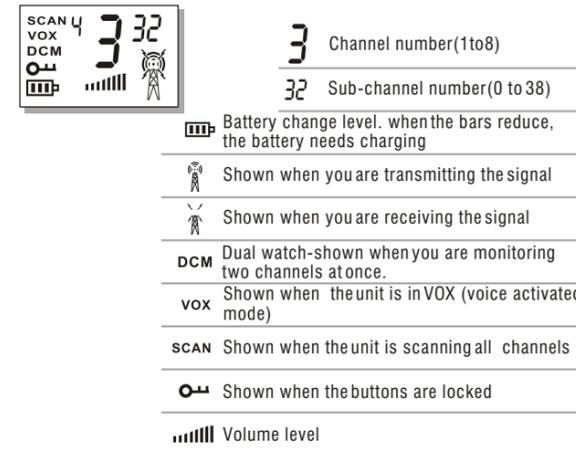


What's on the display



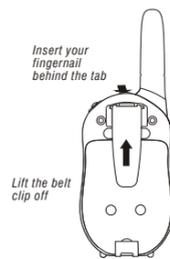
1.Fitting the batteries

Your MR620 includes one battery pack for each handset.

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.



To fit the batteries

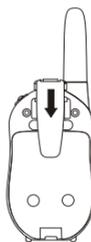
Do not remove the sleeve from the battery pack.

- 1.Open the locking latch and take off the battery compartment cover.
- 2.Insert the battery pack making certain that the arrow is showing & pointing towards the top of the handset.
- 3.Replace the cover and close the latch.



To fit the belt clip

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



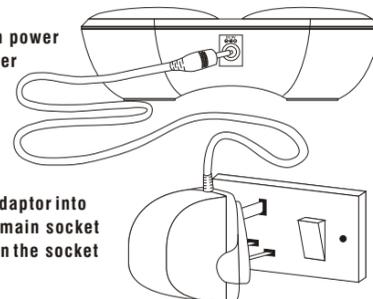
Important – read these Safety Warning before you charge the batteries

- When placing the handset in the charger, **use only the rechargeable battery packs supplied with the MR620.**
- **Don't try to recharge non-rechargeable batteries.**
- **Make sure the battery compartment cover is securely locked in place** when you are charging the batteries.
- **Dispose 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 handset.** They might leak if you do.

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2.Charging the batteries

Connect the main power lead to the charger socket.



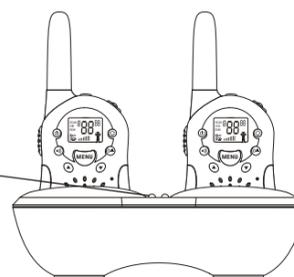
Plug the mains adaptor into a 230V AC ,50Hz main socket with the switch on the socket set to OFF.

Then switch on the main socket.

The PMR must be charged using the mains adaptor provided. Using any other adaptor will result in non-compliance with EN60065 and will invalidate any approvals & warranty.

Place the handsets in the charging cradle.

The charge light comes on when a handset is put on charge.



It takes about 10 hours to recharge the batteries fully if they've become completely run down. New batteries take up to 14 hours to charge fully.

Battery meter

The battery meter is located in the left corner of the LCD panel. It looks like a battery with three bars inside. These indicate the amount of power available. As the power is used the bars will disappear. When the battery level reaches its minimum level, the handset will emit two beep tones and automatically turn OFF the power.

Battery life

The MR620 has a built in power saver feature to make the batteries last longer. But when you are not using the handset, it's better to switch it off to save the battery power.

3.Using the Personal Mobile Radio(PMR)

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.

Important safety warning

- To reduce radio frequency exposure when you're using your MR620, hold the handset at least 5cm(2inches) from your face.
- Never use your MR620 outdoors in a thunderstorm.
- Don't use the MR620 in the rain.
- If your MR620 ever gets wet, turn it off and remove the batteries. Dry the battery compartment and leave the cover off for a few hours. Don't use the handset until it is completely dry.
- Keep the MR620 out of the reach of babies and young children.

To switch your PMR ON&OFF

- ▶ To switch the **PMR ON.**
Press and hold the **ON/OFF** button until the channel number is displayed & you hear a beep.
- ▶ To switch the handset **OFF**
Press and hold the **ON/OFF** button until the display goes blank.
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 MR620 handset, or while the handset is idle (switched on but not in Use).

Changing the channels and sub-channels

MR620 has eight channels, numbered 1to8. To communicate with other PMR users within range, you must all have your PMR tuned to the same channel.

- 1 Press the **MENU** button **once**
The current channel number flashes on the display
- 2 Press the **UP** or **DOWN** buttons to go to the channel you want
- 3 Press the **TALK** button to confirm the channel setting.

Each channel also has 38 sub-channels (sometimes call CTCSS codes) letting you set up groups of users within the same channels, for more private communication. If you have set 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 handset 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 the sub-channel setting.

Transmitting and Receiving.

- ▶ **MR620** transmission is 'one way-at-a-time' – while you are speaking, you can not receive a transmission.
- ▶ **MR620** is an open-license band – always identify yourself when transmitting, as other people may be communicating on the same channel.

To speak to another handset user

- 1 Press and hold the **TALK** button so that the **Transmitting** symbol (T) appears 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 handset user

- ▶ Make sure you are not pressing the **TALK** button
Receiving symbol (R) 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 the MR620 will not pick up very weak signals. But you can monitor the current channel for all sounds.

To activate monitoring feature

- ▶ Press and hold the **MENU** and **DOWN** buttons at the same time.
The receiving symbol (R) appears on the display.
Your handset will pick up any signals on the current channel, including background noise.
- ▶ Press the **TALK** button to stop monitoring.

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VOX(voice activated transmission)mode

In VOX mode your handset will transmit whenever it detects your voice (or other noise) without the **TALK** button having to be 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, the handset will pickup softer noise (including background noise); at the lowest level, it will pick up only quite loud noise.

To turn VOX mode ON and OFF:

- 1 Press the **MENU** button **Three** times
VOX icon is displayed and *OF* flashes on the LCD panel.
- 2 Press the **UP** button to set the level of sensitivity. (3 maximum)
If you press the **DOWN** button until *OF* appears on the display, vox is turned off.
- 3 Press the **TALK** button to confirm the setting.
As long as the handset is 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 will hear a ring tone for about two seconds, while the transmitting symbol (T) appears on the LCD panel. Any other handset within range and tuned to the same channel will hear Ring tone, and may decide to transmit to you.

Selecting Call-Ring tones

- 1 Press the **MENU** button **four** times, the unit will enter Call-Ring setting mode. The LCD will display *7th* while 1 is flashing.
- 2 Press the **UP** or **DOWN** button to change the Call-Ring tone. (**5 different tones**), the different Call-Ring tones can be heard during changing.
- 3 Press the **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 Call-Ring mode to OFF. In this stage, you can send the Call-Ring (default Call-Ring number 1) to the other party, but you will not hear the tone.

- 1 Press the **MENU** button **four** times, the unit will enter Call-Ring setting mode.
- 2 Press the **UP** or **DOWN** buttons until **DF** appears on the display.
- 3 Press the **TALK** button to confirm your setting.

Roger Beep ON/OFF setting

The rogerBeep is a Tone which is automatically transmitted whenever the TALK button is released. This lets the other person know that you have finished talking and you are now in receive mode.

To enable or disable the Roger Beep tone

- 1 Press the **MENU** button **Five** times until **DN** flashes on the LCD screen.
- 2 Press the **UP** or **DOWN** button to enable (**DN** will appear on the display) or disable (**DF** will appear on the display) the key tone feature.
- 3 Press the **TALK** button to confirm the setting.

Key tone ON/OFF setting

This feature allows the handset 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 **DN** icon flashes on the display.
- 2 Press the **UP** or **DOWN** buttons to enable (**DN** will appear on the LCD) or disable (**DF** will appear on the LCD) the key tone feature.
- 3 Press the **TALK** button to confirm your setting.

Dual-Watch-Monitor the current channel plus one other at the same time.

- 1 Press the **MENU** button **seven** times. DCM appears on the display while **DF** is flashing.
- 2 Select the desired 2nd channel by pressing **UP** or **DOWN** button.
- 3 Press the **MENU** button to change the CTCSS code.
- 4 Press **UP** or **DOWN** button to select the desired CTCSS code.
- 5 Press the **TALK** button to confirm the setting.

The display switches backwards and forwards between the two channels. If the 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 the **MENU** button **Seven** times. The channel number flashes on the display.
- 2 Press the **UP** or **DOWN** button until **DF** is shown on the display.
- 3 Press the **TALK** button to exit from the Dual Watch mode.

Scanning Channels

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

- 1 Press **MENU** and the **UP** buttons at the same time. SCAN appears on the display, and the channel number changes. When a signal is detected, the unit will pause.
- 2 Press the **UP** button to continue scanning 1 to 8 channel.
- 3 Press the **DOWN** button to scan the Sub-channels.
- 4 Press the **TALK** button to stop the scan and communicate or **DOWN** button to continue scan.

Locking the buttons

With the buttons 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 buttons

- Press and hold the **LOCK** button until **LOCK** appears on the display.

To unlock the buttons

- Press and hold the **LOCK** button until **LOCK** disappears from the display.

Using the Stopwatch

- 1 Press and hold the **MENU** button for 3 seconds. **STOP** appears on the display.
- 2 Press the **UP** button to start the Stopwatch.
- 3 Press the **UP** button to Stop the stopwatch.
- 4 Press the **DOWN** button to reset the time.
- 5 Press and hold the **MENU** button to exit from the stop watch mode.

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Built-in Flashlight

As an added feature, your MR620 has a built-in flashlight.

- Press and release the **FLASH LIGHT** button to turn the light ON and OFF.

Using a hands free kit(Headset)

You can plug a hands-free kit (not supplied as standard) into the socket on the top of your MR620 handset. With a hands-free kit, you may wish to transmit in VOX mode, but if you find that this doesn't work very well, you can turn the VOX sensitivity off and press the **TALK** button to transmit, as normal.

4. Cleaning and care

To clean your MR620, use a soft cloth dampened with water. **Do not use cleaners or solvents**, as these may cause damage which is not covered by the guarantee.

5. 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

6. Guarantee and service

The Binatone MR620 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 MR620, 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 MR620 develops a fault, first check the points in the troubleshooting section.

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 MR620, using the original packaging. Remember to include the mains adaptor.
- 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 MR620 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

- 1 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 MR620 for repair.
- 3 Return your MR620 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.

The use of this product is allowed in the following countries: Germany, Belgium, Bulgaria, Austria, Czech, Denmark, Estonia, Finland, France, Greece, Ireland, Italy, Letland, Hungary, Iceland, Liechtenstein, Lithuania, Luxemburg, Netherlands, Norway, Portugal, Sweden, Slovenia, Spain, Swiss and England.

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.

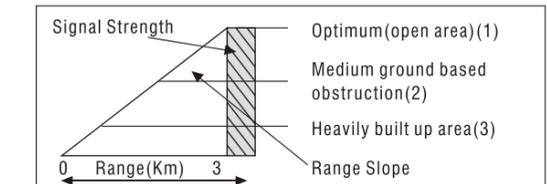
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7. Troubleshooting

Problem	Possible cause solution
No power	<ul style="list-style-type: none"> Batteries are low or not fitted correctly check; Handset is not switched on check
weak reception/ no reception/ noisy reception	<ul style="list-style-type: none"> Batteries are low or not fitted correctly Other user is not within range check Handsets are not tuned to the same channel check Noisy reception is more likely when using high numbered sub-channels try using a 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 You're wearing the handset too close to your body move the handset 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	<ul style="list-style-type: none"> Handset is locked check Batteries are low or not fitted correctly
In VOX mode, the handset transmits all the time	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> VOX sensitivity is too low set it to a higher level Speak in a louder voice, nearer to the microphone
Cannot charge The batteries	<ul style="list-style-type: none"> Make sure the mains power lead is firmly plugged into the charger. Make sure the mains power adapter is plugged in, and that mains power is switched on at the socket. Make sure the handset is correctly in place in the charging cradle, with its battery compartment cover locked shut. Use only the rechargeable battery pack, as supplied with the unit. You may need to replace the battery pack with a new one after many hours of use.

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.



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.

Declaration of Conformity

The **Binatone MR620** complies with the essential requirement

- R&TTE Directive, 1999/5/EC
- Low Voltage Directive 73/23/EEC

And conforms to the following relevant standards:

- ETSI EN 300 296-2: 2001
- EN 301489: 2002
- EN 60065: 1998

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This equipment is intended for use 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



Waste electrical products must not be disposed of with household waste. This equipment should be taken to your local recycling centre for safe treatment.

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