







## Using the PMR, *continued*

### Scanning channels

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





- 1  Press the **MENU** button **TWICE**  
SCAN flashes on the display.
- 2  Press the **▲** or **▼** button to start or stop scanning  
When the handset detects an active channel, it will pause on that channel.
- 3 Press **EITHER**
  - ▶ the **ENTER** button to set this as the current channel
  - ▶ the **TALK** button to transmit on this channel
  - ▶ the **▲** or **▼** button to continue scanning

### Monitoring two channels at once (Dual Watch)

- 1  Press the **MENU** button **THREE** times  
DW appears on the display, as well as the currently selected channel.
- 2  Press the **▲** or **▼** button to select a second channel  
The display switches backwards and forwards between the two selected channels. If the handset detects a signal on either channel, it will stop and receive it.  
OR, to monitor for weak signals on the channel currently shown:
- 3  Press the **MONI** button; to stop monitoring, press the **MONI** button again  
To end Dual Watch mode
- 4  Press the **TALK**, **CALL** or **ENTER** button







### Locking the buttons

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

- ▶  Press and hold the **ENTER** button until  appears on the display  
To unlock the buttons:
- ▶  Press and hold the **ENTER** button until  disappears from the display

## 4 Using the seconds counter

The MR200 seconds counter (stopwatch) can count up to 99 seconds.

- 1  Press the **MENU** button **FIVE** times  
 flashes on the display.
- 2  To start the counter, press the **▲** button  
The counter starts running. If it reaches **99** it goes back to **00** and starts again.
- 3  To pause the counter, press the **▼** button  
The counter flashes on the display. You can press the **▲** button again to restart it; or ...
- 4  To reset the counter to **00** press the **ENTER** button while the display is flashing  
When you've finished ...
- 5  Press the **MENU** button once to return to normal operation  
If the handset detects a signal on the current channel while the seconds counter is running, it will automatically switch to normal operation and receive the transmission

## 5 Cleaning and care

To clean your MR200, use a soft cloth dampened with water. **Do not use cleaners or solvents**, which may cause damage not covered by the 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

### Declaration of conformity

The Binatone MR200 conforms to the following standards:

- EN 300296 (RF testing)
- EN 300279 (EMC testing)
- EN 60065 (safety testing)

## 7 Troubleshooting

Problem	Possible cause — solution
No power	<ul style="list-style-type: none"> <li>■ Batteries are low or not fitted correctly — <b>check; replace batteries if necessary</b></li> <li>■ Handset is not switched on — <b>check</b></li> </ul>
Weak reception/ no reception/ 'noisy' reception	<ul style="list-style-type: none"> <li>■ Batteries are low or not fitted correctly</li> <li>■ Other user is not within range — <b>check</b></li> <li>■ Handsets are not tuned to the same channel — <b>check</b></li> <li>■ Volume level is too low — <b>increase the volume</b></li> <li>■ — <b>Speak in a normal voice, 5–8 cm (2–3 inches) away from the microphone</b></li> <li>■ Local conditions are impairing reception — <b>move to a different location</b>, away from obstructions and as high as possible</li> <li>■ You're wearing the handset too close to your body — <b>move the handset</b></li> <li>■ Other user is not transmitting — <b>check</b></li> <li>■ Other user is too close — <b>check</b></li> <li>■ There's interference from other users on the same channel — <b>agree to use a different channel</b></li> </ul>
Cannot change channels	<ul style="list-style-type: none"> <li>■ Handset is locked — <b>check</b></li> <li>■ Batteries are low or not fitted correctly</li> </ul>
In VOX mode, the handset transmits all the time	<ul style="list-style-type: none"> <li>■ Background noise is high — <b>move to a quieter place</b></li> <li>■ VOX sensitivity is too high — <b>set it to a lower level</b></li> </ul>
In VOX mode, the handset doesn't transmit	<ul style="list-style-type: none"> <li>■ VOX sensitivity is too low — <b>set it to a higher level</b></li> <li>■ — <b>Speak in a louder voice, nearer to the microphone</b></li> </ul>

## 8 Guarantee and service

The Binatone MR200 is fully guaranteed for 12 months from the date of purchase. The guarantee does not cover damage by misuse or negligence, or by excessive voltages.

When you first unpack your Binatone MR200, check for visible damage. If you see any damage, don't use the handsets — return the whole system to where you bought it.

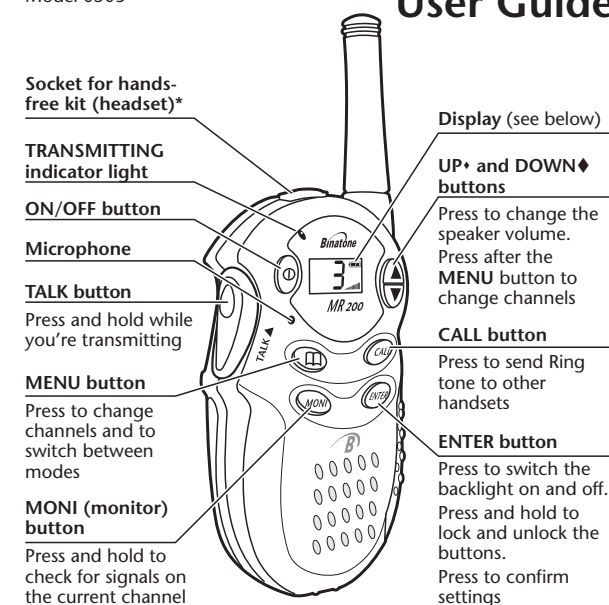
If your Binatone MR200 develops a fault, first check the points above. If you can't solve the problem, return the whole system to where you bought it.

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.

# Binatone MR200

## User Guide





Model 0503



\* Hands-free kit not supplied as standard

### What's on the display



-  **Battery charge level** — when this shows  (low), make sure you have some new batteries to hand.
- DW** **Dual Watch** — shown when you're monitoring two channels at once.
-  Shown when the buttons are locked.
- BUSY** Shown when you're receiving a signal.
- SCAN** Shown when the handset is scanning all channels.
- VOX** Shown when the handset is in VOX (voice-activated) mode.
-  **Volume level**

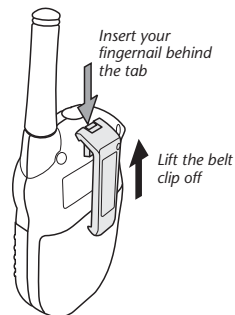
## 1 Getting the handsets ready for use

You need **four 1.5 V AAA/LR03 batteries** for each handset.

### To remove the belt clip

It's 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

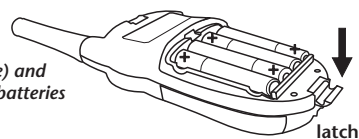


### To fit the batteries

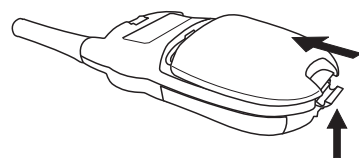
1 Open the locking latch and slide off the battery compartment cover

2 Insert the four batteries, clicking them firmly into place

Make sure the + (positive) and - (negative) ends of the batteries are positioned as shown.

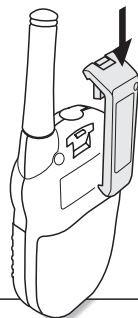


3 Replace the cover and close the latch



### To replace the belt clip

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







### Warnings



- Don't try to recharge alkaline batteries.
- Dispose of used batteries safely — never try to burn them or put them anywhere they could get burnt or punctured.
- When you're not going to use your MR200 for a few weeks, take the batteries out so they don't leak corrosive substances.
- When the display shows that the battery charge level is low, replace all four batteries together.
- Don't leave dead batteries in your handset — they might leak if you do.

## 2 Getting started

### Switching on and off

- ▶  To switch the handset ON:
    - ▶  Press and hold the **ON/OFF** button until the display comes on
  - ▶  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.



### The backlight for the display

- ▶  To switch the backlight on and off:
  - ▶  Briefly press the **ENTER** button

### Battery life

The MR200 has a built-in **Power Saver** feature to make the batteries last longer. But when you're not using the handset, it's best to switch it off to save battery power. You'll also find that the batteries last longer if you keep the backlight switched off when you don't need it.

### Volume control

- ▶  To adjust the loudspeaker volume:
    - ▶  Press the **▲** or **▼** button
- The volume level is shown by the bars on the display. You can change the volume either while you're using your MR200 handset, or while the handset is idle (switched on but not in use).

### Safety warnings

**IMPORTANT —**

- If you are using a hands-free headset — to protect your hearing, do not turn the volume to the highest level.
- To reduce radio frequency exposure when you're using your MR200, hold the handset at least 5 cm (2 inches) from your face.
- Never use your MR200 outdoors in a thunderstorm.
- The MR200 is splashproof. But if it is likely to get very wet, carry it in a plastic bag — you'll still be able to use it through the bag.
- If your MR200 gets very 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.

## 3 Using the Personal Mobile Radio (PMR)




### Transmission range

The talk range depends on environment and terrain. It will be greatest (up to about 3 km, or 1¾ miles) in wide open spaces, without obstructions such as hills or buildings. Don't try to use two PMR handsets which are less than 1.5 m (5 feet) apart. If you do, you may get interference.

- ▶ **PMR446 is an open-licence band — always identify yourself when transmitting, as other people may be communicating on the same channel.**

### Changing channels



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

- 1  Press the **MENU** button **ONCE**  
The current channel number flashes on the display.
- 2  Press the **▲** or **▼** button to go to the channel you want
- 3  Press the **ENTER** button to confirm

### Transmitting and receiving

- ▶ **Note: PMR transmission is 'one-way-at-a-time' — while you are speaking, you cannot receive a transmission.**

#### To speak to another handset user


- 1  Press and hold the **TALK** button so that the **TRANSMITTING** light comes on
- 2  Speak clearly into the microphone, in a normal tone — don't shout
- 3 When you've finished speaking, release the **TALK** button

#### To listen to another handset user

- ▶ Make sure you are **NOT** pressing the **TALK** button
- BUSY** 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 MR200 will not pick up very weak signals. But you can monitor the current channel for all sounds.

- ▶  Press and release the **MONI** button  
Your handset will pick up any signals on the current channel, including background noise. It will carry on monitoring for about 20 seconds, unless you press and release the **MONI** button again to stop it.

### Ring tone




You can send Ring tone to other handsets within range and tuned to the same channel, to alert them you want to communicate with them.

- ▶  Press and release the **CALL** button  
You'll hear Ring tone for about 3 seconds, while the **TRANSMITTING** light is on.  
Any other handset within range and tuned to the same channel will hear Ring tone, and may decide to transmit to you.  
You can also use Ring tone at the end of a transmission to signal that you've finished speaking.

### VOX (voice-activated transmission) mode

In VOX mode, your handset will transmit whenever it detects your voice (or other noise), without the **TALK** button pressed. It will transmit for at least 2 seconds, even if you stop talking. You may wish to use VOX mode if you're using a hands-free kit (see overleaf).

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

- To turn VOX mode on and off:
  - 1  Press the **MENU** button **FOUR** times  
**VOX** flashes on the display, and the current level of VOX sensitivity is shown.
  - 2  Press the **▲** or **▼** button to set the level of VOX sensitivity  
If you press the **▼** button repeatedly until the 'sensitivity' bars disappear altogether, you turn VOX mode off, and **VOX** disappears from the display.
  - 3  Press the **ENTER** button to confirm the setting  
As long as the handset is in VOX mode, **VOX** is shown steadily on the display.

### 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 MR200 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.

If you'd like to buy the optional hands-free kit, phone the Binatone Help Line on **01325 304 473**.