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.

Press the A or V button to start or stop scanning
When the handset detects an active channel, it will pause on that channel.

3 Press EITHER

ENTER) the ENTER button to set this as the current channel

(TALK) • 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.



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 MONI Press the MONI button; to stop monitoring, press the MONI button again

To end Dual Watch mode



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.

To lock the buttons:

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

6 Using the seconds counter

The MR300 seconds counter (stopwatch) can count up to 99 seconds.

Press the **MENU** button FIVE times

00 flashes on the display.

To start the counter, press the ▲ button
The counter starts running. If it reaches 99 it goes back

To pause the counter, press the ▼ button

The counter flashes on the display. You can press the ▲ button again to restart it; or ...

To reset the counter to OO press the ENTER button while the display is flashing

When you've finished ...

to 00 and starts again.

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

7 Cleaning and care

To clean your MR300, use a soft cloth dampened with water. **Do not use cleaners or solvents**, which may cause damage not covered by the guarantee.

8 Technical specification

Operating frequency 446.00625 to 446.09375 MHz (eight channels)

Channel spacing 12.5 KHz

Output power 0.5 W

Mains power adapter (battery charger) input 230 V AC / 50 Hz; output 6 V AC, 200 mA (dual connector)

Battery life (from fully charged to run down) typically 30 hours

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

Declaration of conformity

The Binatone MR300 conforms to the following standards:

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

9 Troubleshooting

Problem Possible cause — solution			
No power	■ Batteries are low or not fitted correctly — check; replace batteries if necessary ■ Handset is not switched on — check		
Weak reception/ no reception/ noisy' reception	■ Batteries are low or not fitted correctly ■ Other user is not within range — check ■ Handsets are not tuned to the same channel — check ■ Volume level is too low — increase the volume ■ — Speak in a normal voice, 5–8 cm (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	■ Handset is locked — check ■ Batteries are 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 ■ Voice not loud enough — speak in a louder voice, nearer to the microphone		
Cannot charge the batteries	Make sure the jack connector is firmly plugged into the handset; and that mains power is switched on at the socket.		

10 Guarantee and service

The Binatone MR300 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.

■ Use only 1.2 V NiCd batteries, as supplied with

with new ones after many hours of use.

the unit. You may need to replace the batteries

When you first unpack your Binatone MR300, 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 MR300 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.



MR300



^{*} A hands-free kit is not supplied as standard

What's on the display



Battery charge level — when this shows [Iow), recharge the batteries.

		(low), recharge the batteries.
	DW	Dual Watch — shown when you're monitoring two channels at once.
	Б	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.
	antil	Volume lovel

||||||| Volume level

1 Getting the handsets ready for use

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



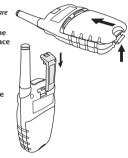
1 Open the locking latch and slide off the battery compartment cover

positioned as shown.

- 2 Insert the four NiCd batteries. clicking them firmly into place Make sure the + (positive) and -(negative) ends of the batteries are
- 3 Replace the cover and close the latch to lock the cover into place

To replace the belt clip

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



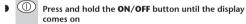
Insert your

hehind the tah

2 Getting started

Switching on and off

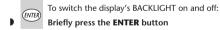
To switch the handset ON:



To switch the handset OFF:



You hear a musical tone each time to confirm.



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 while you're using the handset, or while the handset is idle (switched on but not in use).

3 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 MR300, hold the handset at least 5 cm (2 inches) from
- Never use your MR300 outdoors in a thunderstorm.
- The MR300 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 MR300 gets very wet, switch 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.

4 Charging the batteries

The battery charging lead has two connectors, so you can charge both handsets' batteries at once.

- 1 Switch the handset OFF
- 2 Plug the mains power adapter into a 230 V AC, 50 Hz mains socket, with the switch on the socket set to OFF. Then switch on at the socket
- 3 Plug the jack connector into the socket marked MIC CHG, as shown

While the batteries are being charged, the charge level symbol blinks.

To check the charge level, disconnect the jack connector from the handset, switch on and check the display.

It takes about 6 hours to recharge the batteries fully if they've become completely run down. New batteries can take up to 14 hours to charge fully.

The MR300 must be used with mains adapter, part no. XX002126D, supplied with the unit. Using any other adapter will result in non-compliance with EN60065, and will invalidate any approval given to this apparatus.

Battery safety warnings

- Make sure the battery compartment cover is securely locked in place when you're charging the batteries.
- Don't try to recharge alkaline batteries: only the NiCd ones as supplied.
- 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 MR300 for a few weeks. take the batteries out so they don't leak corrosive substances.

Battery life

The MR300 has a built-in Power Saver feature to keep the batteries charged for 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 stay charged for longer if you keep the backlight switched off when you don't need it.

5 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 134 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.



Press the ▲ or ▼ button to go to the channel you want



3 (ENTER) 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



Press and hold the TALK button so that the TRANSMITTING light comes on



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

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 MR300 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

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:



Press the MENU button FOUR times

VOX flashes on the display, and the current level of VOX sensitivity is shown.



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 (ENTER) 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 MR300 handset. With a handsfree 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

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