Binatone

Latitude 150
Private mobile radio

USER GUIDE

RED LED Indicator lighting

MENU/ ⏻ (Power) Button
-(Menu) Press to program the PMR settings.
(Power) Press and hold to turn the PMR unit ON or OFF.

TALK (PUSH to TALK) button
- Press and hold to transmit.

Mic (Microphone)

CALL button
- Press to send a ringing tone to other PMR units.

Antenna

LCD Screen
-Displays the current channel selection and other radio symbols.

▲ (UP)/ ▼(DOWN) buttons - Press to change channels, volume, and to select settings during programming.

SCAN button
- Press and hold to scan for an active channel

Speaker

1. LCD Screen

Channel Number. Changes from 1 to 8 as selected by the user.

Displays the Speaker volume level.

TX Displayed when transmitting a signal.

RX Displayed when receiving a signal.

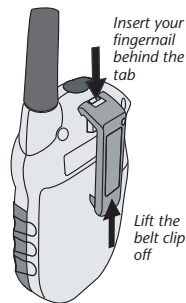**L** Displayed when the Power Low is activated.

2 Fitting the batteries

Your Latitude 150 includes a **rechargeable battery pack** for each handset.

To remove the belt clip

It's easier to fit the battery pack 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 rechargeable battery pack as shown

Make sure the 'UP' arrow is showing, and pointing towards the top of the handset

latch

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

Insert your fingernail behind the tab
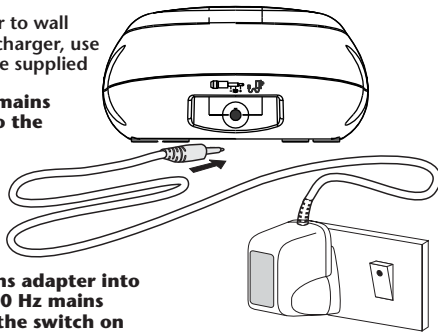
Lift the belt clip off

Important — read these safety warnings before you charge the batteries

- When placing the handset in the charger, **use only the rechargeable battery pack supplied with the** Latitude 150.
- **Don't try to fit or recharge non-rechargeable batteries.**
- **Make sure the battery compartment cover is securely locked in place** when you're 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.
- When you're not going to use your Latitude 150 for a few weeks, **take the battery pack out** so it doesn't leak corrosive substances.
- When the battery charge level gets low, an alert tone will be heard and the RDD LED indicator will flash once every 15 seconds. When this happens, recharge the batteries.
- **Don't leave dead batteries in your handset** — they might leak if you do.

2.1 Charging the batteries

If you prefer to wall mount the charger, use the template supplied
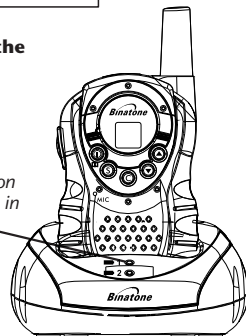
Connect the mains power lead to the charger

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

Then switch on at the mains socket

The Latitude 150must be used with the mainsadapter supplied. Using any other adapter will result in non-compliance with EN60065, and will invalidate any approval given to this apparatus.

Place the handsets in the charging cradles

The charge light comes on when a handset is in the charging cradle

Battery Meter
If the PMR can detect when the battery charge level gets low. An alert tone will be heard and the RED LED indicator will flash once every 15 seconds. When this happens, will be put on the handset to charge pod and check the charge LED light.

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.

Battery life
The PMR units have a built-in Power Saver (PS) for maximum battery life, but when not in use, turn the unit OFF to conserve battery power.
Remove the batteries if the units will not be used for a long period of time.

3. Operation

3.1 Turning the Unit ON/OFF

To Turn ON;
a. Press and hold the ⏻ (Power) button. A special "beep" sound will be heard and the LCD Screen will display the current channel.
To switch OFF;
b. Press and hold the ⏻ (Power) button. A special "beep" sound will be heard and the LCD Screen will turn blank.

3.2 Adjusting the Speaker volume
There are 8 volume levels. To adjust the speaker volume, press the ▲ (UP) button to increase, or press the ▼ (DOWN) button to decrease. The LCD Screen will show the digital speaker volume level during adjustment.

3.3 Receiving a Call
The unit is continuously in Receive mode when the unit is turned ON and not transmitting. When a signal is received on the current channel, the receive signal icon "RX" will be displayed on the LCD Screen.

3.4 Transmitting (sending)
a. Press and hold the TALK (Push to Talk) button to transmit your voice. The transmit signal icon "TX" will display on the LCD Screen and the RED LED indicator will light.
b. Hold the unit in a vertical position with the Mic (Microphone) 5 cm away from the mouth. While holding the TALK button, speak into the mic (microphone) in a normal tone of voice.
c. Release the TALK button when you have finished transmitting.

Important:
- In order for other people to receive your transmission, they must also be on the same channel that you are currently using. Refer to the "Changing Channel" section for more information.
- When the TALK and/or CALL buttons are continuously pressed, your PMR cannot receive any transmissions.

3.5 Calling (Paging) Tone
You can use the CALL button to send a tone to other users on the same channel. To activate this feature;
With the PMR in normal mode, press and release the CALL button. The unit will transmit a 2-second page tone to the other unit/s set with the same channel within transmitting range.

Binatone Help Line - 0845 345 9677

3.6 Channel Scan
Channel scan performs a search for active signals in a continuous loop from channels 1 to 8. This allows you to find other radios without having to manually change to each channel. To activate this feature;
a. Press and hold down the SCAN button. The channel number on the LCD screen changes rapidly until an active signal is detected.
b. When an active signal (one of the 8 channels) is detected, the channel scan pauses on the active channel until the active signal stops.
c. If you press the TALK button while the scan is paused on an active channel the unit will communicate through the active signal channel, and the channel scan will be deactivated. (OR press the ▲(UP) button to continue the channel scanning.)
d. If no action is taken before the detected signal stops then the scan will continue.
e. Press and hold the SCAN button to stop the channel scanning operation. The unit will return to the channel set before the scan was started.

3.7 The Menu Functions

3.7.1 Changing Channels
The PMR has 8 available channels. To change channel;
a. Press the ▢ (Menu) button once, the Channel icon "8" will start blinking on the LCD Screen.
b. While the Channel icon is blinking, press the ▲ (UP) or ▼ (DOWN) button to select the desired channel. The channel changes from 1 to 8, or from 8 to 1.
c. Press the TALK button again to confirm your selected channel.

Note:
- Refer to the "Channel Table" section of this Owner's Manual for detailed frequency listing.

3.7.2 TX Power High/Low setting
This feature permits the selection of the transmitting power level to high or low. At Power High, the PMR will transmit at maximum power and at a longer transmission range.
a. Press the ▢ (Menu) button twice.
b. Press the ▲ (UP) or ▼ (DOWN) button to select High or Low. The LCD Screen will display "L" when the low power is selected. At low power mode, the PMR will transmit at reduced transmitting range but could extend the battery life.
c. Press the TALK button again to confirm your selected power level.

3.7.3 Monitor
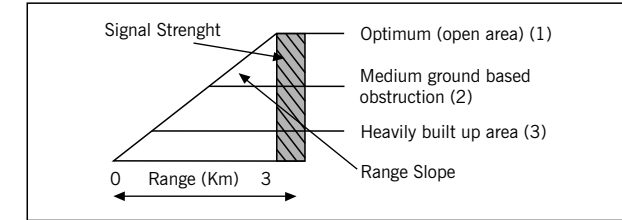You can use the Monitor feature to check for weak signals on the current channel.
a. Press the ▢ (Menu) button 3 times. The PMR will enter the Monitor mode and hear everything on the current channel.
b. Press the ▢ (Menu) button again to turn off the Monitor operation and return to standby mode.

4. Auxiliary Features

4.1 Power Saving
Your PMR unit has special circuitry designed to extend the life of your battery. When the unit is not used for 6 seconds, it will automatically switch into a low power mode.
The Power Saving feature does not affect the PMR's ability to receive transmissions. When a signal is detected, it automatically returns to full power mode.

4.2 Low Battery Indicator
The PMR can detect when the battery charge level gets low. An alert tone will be heard and the RED LED indicator will flash once every 15 seconds. When this happens, replace the batteries.

Important:
For regular batteries, replace only with "AAA/LR03" or equivalent type.
For rechargeable batteries, replace only with the same type and make of rechargeable batteries.

5. Effective Range
The Transmission range of the product is dependent on the environment terrain where it is being used, the following diagram attempts to guide the user on the sort of performance to expect for everyday use.

Signal Strenght
Optimum (open area) (1)
Medium ground based obstruction (2)
Heavily built up area (3)
Range Slope
0   Range (Km)   3

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

6. Specifications

Channels Available	8 Channels
Output Power (TX)	0.5W
Range	Up to 3 Kms.

Channel Frequency Table

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

7. Safety

⚠ CAUTION
Damaged Antenna
Do not use any PMR that has a damaged antenna. If a damaged antenna comes in contact with the skin, a minor burn may result.

Batteries
All batteries can cause property damage and/or bodily injury such as burns if conductive material such as jewelry, keys, or beaded chains touch exposed terminals. The material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

⚠ WARNING
For Vehicles with an Air Bag
Do not place your PMR in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a PMR is placed in the air bag deployment area and the air bag inflates, the PMR may be propelled with great force and cause serious injury to the occupants of the vehicle.

Potentially Explosive Atmospheres
Turn your PMR OFF when in any area with a potentially explosive atmosphere, unless it is a type especially qualified for such use (for example, Factory Mutual Approved). Sparks in such areas could cause an explosion or fire resulting in injury or even death.

Batteries
Do not replace or charge batteries in a potentially explosive atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.

Blasting Caps and Areas
To avoid possible interference with blasting operations, turn your PMR OFF near electrical blasting caps or in a "blasting area" or in areas posted: "Turn off the two-way radio." Obey all signs and instructions.
NOTE: *Areas with potentially explosive atmospheres are often, but not always, clearly marked. They include fueling areas such as below deck on boats; fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust, or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.*

8. Cleaning and Care
To clean your PMR, use a soft cloth dampened with water. Do not use cleaners or solvent, which may cause damage that may not be covered by guarantee.

9. Guarantee and service
This product is guaranteed against manufacturing defects for a period of 1 Year.

This does not cover the product where the fault is due to misuse, abuse, use in contravention of the instructions, or where the product has been the subject of unauthorised modifications or alterations, or has been the subject of commercial use.

In the event of a problem with the product within the guarantee period please return it to your nearest Argos store.

If the item is shown to have had an inherent defect present at the time of sale, the store will provide you with a replacement.

Your statutory rights remain unaffected.

Guarantor; Argos Ltd
489 - 499 Avebury Boulevard
Central Milton Keynes
MK9 2NW

This equipment is intended for use in:

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

✓ **Countries of use**

10. Troubleshooting Guide

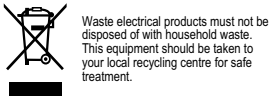| Symptom	Solution
No power.	• Check the batteries are installed properly. • The batteries may be weak. • Replace the old batteries with new ones.
Reception is weak.	• Press the ▲ (UP) button to increase the receiver volume level. • The receiving signal may be weak and/or out of range.
Cannot change channels.	• To change channels, press the ⬚ (Menu) button once then press the ▲ (UP) or ▼ (DOWN) buttons to change the current channel. • Batteries may be weak.
Range is limited.	• Batteries may be weak. • Replace with new batteries if the battery charge level is low. (The RED LED indicator is flashing once in every 15 seconds.) • The maximum range will vary depending on terrain and environment, and depending on the TX power high/low setting. • Open fields provide the maximum range, while steel/concrete structures, heavy foliage, and use in buildings and in vehicles may limit the range significantly. • Wearing the radio close to the body, such as in a pocket or on a belt, will decrease range; change the location of the radio.
Sound distortion problems.	• If you are transmitting, speak in a normal tone of voice, 5 cm away from the Mic (microphone.). • If you are receiving, lower the volume to a comfortable level. • Radios too close. Radios must be at least 1.5 meters apart; increase your distance. • Radios too far apart. Obstacles interfere with transmission. Talk range is up to 3 Km in clear unobstructed conditions.

Declaration of Conformity
The **Binatone Latitude150** complies with the essential requirements

- **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: 2002**

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

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