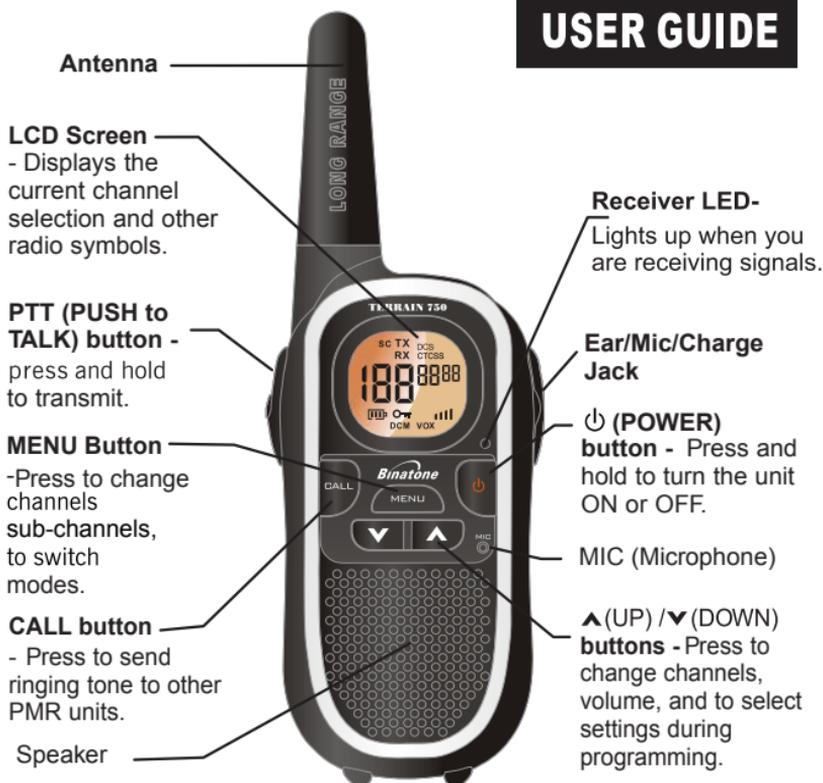


USER GUIDE



I. LCD Screen



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

88 CTCSS Code. Changes from 1 to 38 as selected by the user.

88 Digital Code. Changes from 1 to 83 as selected by the user.

|||| Displays the Battery charge level. When the bars are reduced, the battery needs recharging.

88888888 Displayed when the Stop watch function is activated.

TX Displayed when transmitting a signal.

RX Displayed when receiving a signal.

CTCSS Displayed when a CTCSS sub-channel is turned ON.

DCS Displayed when the Digital Code System is turned ON.

DCM Displayed when the Dual Watch function is turned ON.

VOX Displayed when the VOX feature is enabled.

SC Displays when the PMR is scanning all channels.

🔑 Displayed when the Key Lock feature is activated.

|||| Displays the current Speaker volume level.

2. Installation

2.1 Removing the Belt Clip

- Pull the Belt Clip latch forward (away from the PMR.)
- While pulling the Belt Clip latch, push up the Belt Clip as shown in Figure 1.

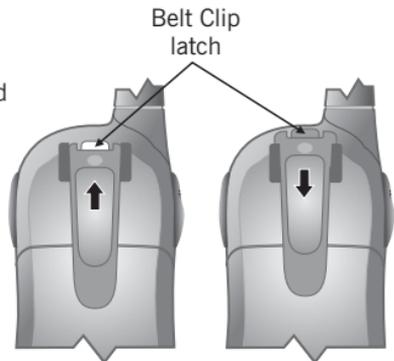


Figure 1

Figure 2

2.2 Installing the Belt Clip

- Slide the Belt Clip into the slot as shown in Figure 2.
- A "click" indicates the Belt Clip is locked into position.

2.3 Installing the Battery pack

Figure 3

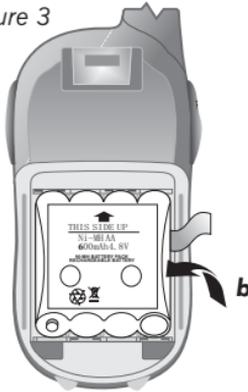


Figure 4



Caution: Observe the proper battery polarity orientation when installing batteries. Incorrect positioning can damage both the batteries and the unit.

- Unclip the battery cover latch at the bottom of the cover, and lift the battery cover off.
- Install the rechargeable battery pack by following the orientation as shown in Figure 3 (the arrow is showing and pointing upward.)
- Replace the Battery Compartment Cover. See Figure 4.

Important

Read these Safety Warnings before you charge the batteries.

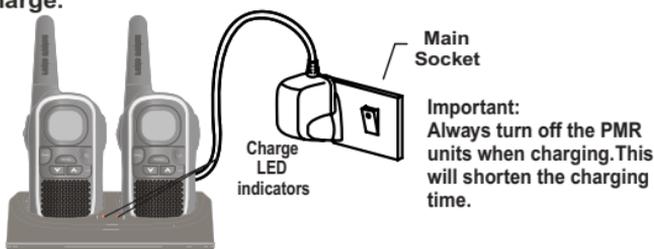
- When placing the PMR in the charger, use only the rechargeable batteries supplied with the Terrain 750.
- Don't try to recharge non-rechargeable batteries.
- Make sure the battery compartment cover is securely locked in place when you are charging the batteries.
- Dispose of used batteries safely and 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 PMR units. They might leak if you do.

2.4 Charging the Battery pack

- Insert the small plug on the end of the mains adaptor into the Power-in Connection Jack at the back of the desktop charger.
- Plug the mains adaptor into a 240V AC, 50 Hz main socket with the switch on the socket set to OFF.
- 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.

- d. Place the PMR units in the charge cradle in an upright position and facing outward. **The Charge LED indicators will light up.**
- e. It takes about 10 hours to fully recharge the batteries if they are completely run down. **New batteries take up to 14 hours to fully charge.**

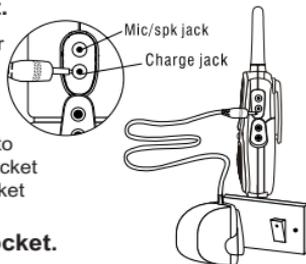


OR: Charging the battery pack (using adaptor)

Lift the charge socket cover located on the right side of the handset.

Insert the round connector of the 9.0V DC/300mA adaptor into the charge jack.

Plug the mains adaptor into a 240V AC, 50Hz main socket with the switch on the socket set to OFF.



Then switch ON the main socket.

Battery meter

The battery meter is located in the left corner of the LCD Screen. It appears like a battery with three bars inside. These indicate the amount of power available. when the battery level reaches its minimum level in PMR on mode, the unit will emit two beep tones and automatically turn off the power.

The PMR can detect the battery charge in 4 levels;



Battery charge at high level.

Battery charge at medium level.

Battery charge at low level. At this level, the PMR will emit a "beep" sound for every 10 seconds in normal mode.

Important: Charge the unit for 10~14 hours.

Battery charge at very low level. When the battery level reaches its minimum level in PMR on mode, the unit will emit two beep tones and turn off. proceeds to watch mode.

Important: Charge the unit for 10~14 hours.

Battery life

The Terrain 750 has a built in power saver feature to make the batteries last longer. But when you are not using the units, turn them OFF to conserve battery power.

3. Operation

3.1 Transmitting range

The talk range depends on the environment and terrain. It will be greatest (up to about 8 km) in wide open spaces, without obstructions such as hills or buildings. Don't try to use two PMR units which are less than 1.5m (5feet) apart. If you do, you may experience interference.

Important safety warning

- To reduce radio frequency exposure when you're using your Terrain 750, hold the unit at least 5cm (2 inches) away from your face.
- Never use your Terrain 750 outdoors during a thunderstorm.
- Don't use the Terrain 750 in the rain.
- If your Terrain 750 ever gets wet, turn it off and remove the battery. Dry the battery compartment and leave the cover off for a few hours. Don't use the unit until it is completely dry.
- Keep the Terrain 750 out of the reach of babies and young children.

3.2 Turning the Unit ON/OFF



To Turn ON;

- a. Press and hold the **POWER** button until the LCD Screen turns ON and displays the current channel.

To switch OFF;

- b. Press and hold the **POWER** button until the LCD screen turns blank.

You will hear a beep tone each time to confirm.

3.3 Adjusting the Speaker volume



The volume level is shown by vertical bars on the LCD screen. You can change the volume while using your PMR, or while the unit is idle (switched on but not in use).

Press the **UP** button to increase, or press the **DOWN** button to decrease the speaker volume.

3.4 Changing Channels



Your Terrain 750 has 968 Channel Combinations

The Terrain 750 has 8 available main channels. To communicate with other Terrain 750 users within range, you must all have your Terrain 750 tuned to the same channel.

- a. Press the **MENU** button once, the current channel number flashes on the LCD Screen.
- b. Press the **UP** or **DOWN** button to select the desired channel. The channel changes from 1 to 8, or vice versa.
- c. Press the **PTT** button to confirm the channel setting.

Note: Refer to the "Channel Frequency Table" section of this user guide for detailed frequency listings.

3.4.1 Setting the CTCSS sub-channel

Each channel also has 38 sub-channels to let you set up a group of users within the same channel for more private communication. If you have set the sub-channel, you can only communicate with other PMR users tuned to the same channel and sub-channel.



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

- a. Press the **MENU** button twice, the current CTCSS sub-channel number flashes on the LCD Screen.
- b. Press the **UP** or **DOWN** button to select one of the 38 CTCSS sub-channels.
- c. Press the **PTT** button to confirm the sub-channel setting.



3.4.2 Setting the DCS Advanced Digital Code

Each channel also has 83 digital codes to let you set up a group of users for more secured private communication.

- Press the **MENU** button 3 times. The current DCS code flashes on the LCD screen.
- Press the **UP** or **DOWN** button to select the desired DCS code.
- Press the **PTT** button to confirm the DCS channel setting.

Transmitting and Receiving

- ! **The Terrain 750** transmission is "one way-at-a-time." While you are speaking, you can not receive a transmission.
- ! **The Terrain 750** is an open-license band. Always identify yourself when transmitting on the same channel.

3.5 Receiving

The unit is continuously in the Receive mode when the unit is turned ON and not transmitting. When a signal is received on the current channel, the "RX" icon will be displayed on the LCD Screen and the receiver LED lights up.

3.6 Transmitting (sending speech)



- Press and hold the **PTT** (push to talk) button to enter transmit mode, and the "TX" icon will be displayed on the LCD Screen.
- Hold the unit in a vertical position with the MIC (Microphone) 5 cm away from the mouth. While pressing and holding the **PTT** button, speak into the **MIC** (microphone) in a normal tone of voice.
- Release the **PTT** button when you have finished transmitting.

3.7 Monitor



You can use the Monitor feature to check for weak signals on the current channel.

- Press and hold the **MENU** and **DOWN** buttons at the same time. The "RX" icon will be displayed on the LCD Screen, and your Terrain 750 will pick up signals on the current channel, including background noise. (Note: Monitor will not work in Dual Watch Mode.)
- Press the **MENU** button to stop the channel monitoring.

3.8 Setting the VOX (Voice Activated) Sensitivity



In VOX mode, the Terrain 750 will transmit a signal only when it is activated by your voice or other sounds around you. The unit will transmit for a further 2 second after you stop talking.

The level of VOX sensitivity is shown by a number on the LCD Screen. At the highest level, the unit will pickup softer noises (including background noise); at the lowest level, it will pick up only quite loud noises.

- Press the **MENU** button 4 times, the "VOX" icon will be displayed and "OF" flashes on the LCD Screen.
- Press the **UP** button to set the VOX sensitivity to the required level (the maximum level is "3"). To deactivate the VOX function, press the **DOWN** button until "OFF" appears on the LCD Screen.
- Press the **PTT** button to confirm your setting. "VOX" will steadily appear on the LCD Screen as long as the VOX feature is activated.

VOX operation is not recommended if the Terrain 750 will be used in a noisy or windy environment.

Binatone Help Line - 0845 345 9677

3.9 Activating the Auto Channel Scan



Channel scan searches for active signals in an endless loop for all 8 channels, 38 CTCSS codes or 83 DCS codes.

- Press the **MENU** button 5 times, the scan icon “**SC**” will flash on the LCD Screen with the channel number.
- Press the **UP** or **DOWN** button to begin scanning channels. When an active signal is detected, channel scan pauses on the active channel.
- Or Press the **MENU** button six times, the SC and CTCSS icons flash on the LCD screen. Press the **UP** or **DOWN** button to begin scanning the CTCSS from 1-38.
- Or press the **MENU** button seven times, the SC and DCS icons flash on the LCD screen. Press the **DOWN** or **UP** button to begin scanning DCS code 1-83.
- Press the **PTT** button to stop the scan.

4. Call-Ringtone



You can send a Call-ring tone to other PMR users to give an alert that you want to communicate with them.

Press the CALL button

You will hear a ring tone for about two seconds; the “**TX**” icon appears on the LCD Screen. Any other units within the transmitting range and tuned to the same channel and sub-channel (if applicable) will hear the Call-ring tone.

Note: Your Terrain 750 can alert you to an incoming signal by emitting an audible tone signal.

4.1 Selecting a Call-Ring tone



The Terrain 750 is equipped with 10 different types of Call-Ring tones that you can send to alert other PMR users.

- Press the **MENU** button 8 times, until “**CA**” is displayed with “**01**” flashing on the LCD Screen.
- Press the **UP** or **DOWN** button to select the desired Call-ring tone. The Call- Ring tone sound will be played when changing from one tone to another.
- Press the **PTT** button to confirm your setting.

4.2 Setting the Roger Beep



The Roger Beep is a tone which is automatically transmitted whenever the PTT button is released. This alerts the receiving party to inform that you have intentionally ended the transmission, and you are now in receive mode.

- Press the **MENU** button 9 times, “**r0**” is displayed with “**On**” flashing on the LCD Screen.
- Press the **UP** or **DOWN** button to select the Roger beep on (On) or Off (OF).
- Press the **PTT** button to confirm your setting.

4.3 Setting the Key Tone ON or OFF



This feature allows the Terrain 750 to emit a confirmation tone after pressing each button.

- Press the **MENU** button 10 times, “**t0**” is displayed with “**On**” flashing on the LCD Screen.
- Press the **UP** or **DOWN** button to select the Key tone on (On) or off (OF).
- Press the **PTT** button to confirm your setting.

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5. Setting the Dual Watch Mode

Your Terrain 750 is capable of monitoring two channels, the current and another (dual watch) channel. If the unit detects a signal on either channel, it will stop and receive the signal.



- Press the **MENU** button **11 times**, the “**DCM**” icon will be displayed while “**OF**” flashes on the LCD Screen.
- Press the **UP** or **DOWN** button to select the Dual Watch channel (1-8, except the current channel).
- Press the **MENU** button to change the CTCSS code.
- Press the **UP** or **DOWN** button to select the desired CTCSS code (1-38)
- Press the **MENU** button to change the DCS code.
- Press the **UP** or **DOWN** button to select the desired DCS code (1-83).
- Press the **PTT** button to confirm your setting.

6. Auxiliary Features

6.1 KeyLock



The Key Lock feature allows the user to disable the **UP**, **DOWN** and **MENU** buttons so that the Terrain 750 settings can not be changed accidentally.

- To activate the Key Lock feature, press and hold the **MENU** button until key lock “**🔑**” icon appears on the LCD Screen.
- To deactivate the key Lock feature, press and hold the **MENU** button until key lock “**🔑**” icon disappears from the LCD Screen.

Note:

The **PTT**, and **CALL** buttons will remain functional even if the Key Lock feature is activated.

6.2 Stop watch function



- In Standby Mode, press and hold the **CALL** button for 3 seconds. The Stop watch icon appears in the LCD screen.
- Press the **UP** button once to start the Stop watch. To stop, press the **UP** button again.
- Press the **DOWN** button once to reset the timer.
- Press and hold the **CALL** button for 3 seconds to exit from the stopwatch mode.

6.3 LCD Screen Back Light



Every time a button is pressed (except PTT and CALL buttons), the LCD Screen back light will illuminate for 5 seconds.

6.4 Microphone/Earphone/Charge Jack



The Terrain 750 is equipped with an auxiliary microphone, earphone, and charge jack located at the opposite side to the PTT button.

Note:

It requires a microphone/earphone with a 2.5mm,3-pole jack connector, and this is not supplied with your Terrain 750.

7. Specifications

Channels Available	968 Combinations Channels
Main Channel	8 Channels
CTCSS Sub-channel	38 for each Channel
Digital Code channel	83 for each Channel
Output Power (TX)	0.5 W
Range	Up to 8 Kms.

Note:

There are 38 CTCSS sub codes and 83 DCS codes available. Therefore, you can have:

- Combination of 8 mains channel and 38 CTCSS sub codes – 304 combinations.**
- Combination of 8 mains channel and 83 DCS sub codes – 664 combinations.**

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

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	✓	Slovakia	✓
Estonia	✓	Italy	✓	Slovenia	✓		

✓ Countries of use

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 jewellery, 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.

Binatone Help Line - 0845 345 9677

9. Guarantee and service

The phone system is guaranteed for 12 months from the date of purchase shown on your sales receipt. This guarantee does not cover any faults or defects caused by accidents, misuse, fair wear and tear, neglect, faults on the telephone line, lightning, tampering with the equipment, or any attempt at adjustment or repair other than through approved agents.

Please keep your sales (till) receipt this is your guarantee.

You should also keep the original packaging material.

In the unlikely event that you need to return your phone system to our Repair Centre while it is under guarantee, there may be a handling charge.

While the unit is under Guarantee

1. Disconnect the base unit from the telephone line and the mains electricity supply.
2. Pack up all parts of your phone system, using the original package.
3. Return the unit to the shop where you bought it, making sure you take your sales receipt.
Remember to include the mains adapter.

After the Guarantee has expired

If the unit is no longer under Guarantee, first follow steps 1 and 2 as for repair under Guarantee. Then...

3. Call Helpline on 0845 345 9677 (for UK only) and ask for a quotation of the repair charge and details of where to send your phone system for repair.
4. Make sure you include with your phone system.
 - Your name and address
 - A cheque or postal order for the value of the repair
 - A brief description of the fault.
5. Return your iphone system to the address given by the Service Department.

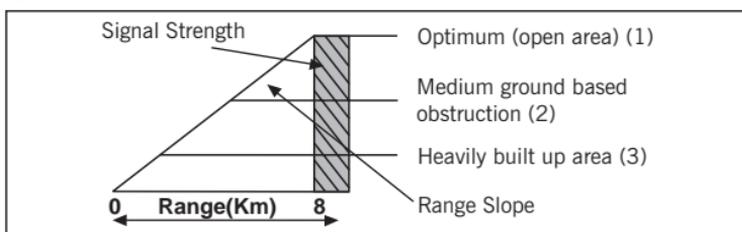
** This does not affect your statutory rights.*

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 prior notice.

Effective Range

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



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) 8 km (2) 4 km (3) 2 km. It should be remembered that these are only guide values as actual achieved distances will be dependent on the environment and terrain.

Binatone Helpline (for UK only)

Monday to Friday from 9:00am to 5:00pm

Tel: 0845 345 9677

**Please note that all calls are charged at local rate or visit our website www.binatonetelecom.com

10. Troubleshooting Guide

Symptom	Solution
No power.	<ul style="list-style-type: none"> • Check if the batteries are installed properly. • The battery may be weak. • Recharge the batteries or replace the battery pack with a new one.
Reception is weak.	<ul style="list-style-type: none"> • Press the UP button to increase the receiver volume level. • The receiving signal may be weak and/or out of range. • If this happens, press the MENU and DOWN buttons at the same time to activate the Monitor function.
Cannot change CTCSS sub-channels.	<ul style="list-style-type: none"> • Key lock mode must be deactivated if the Key lock icon (🔒) is displayed on the LCD Screen. • To change CTCSS sub-channels, press the MENU button twice, the CTCSS sub-channel number flashes on the LCD Screen. Press the UP or DOWN button to change the CTCSS sub-channel. • Batteries may be weak.
Range is limited.	<ul style="list-style-type: none"> • Batteries may be weak. • Recharge the batteries or replace the battery pack with a new one if the charge level indicator gets low. • See the "Effective Range" diagram. The maximum range will vary depending on terrain and environment. • 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.	<ul style="list-style-type: none"> • 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 2 meters apart; increase your distance. • Radios too far apart. Obstacles interfere with transmission. Talk range is up to 8 Kms. in clear unobstructed conditions.
No communication	<ul style="list-style-type: none"> • Check the Channel and the CTCSS or DCS code setting. Both the Transmitting and Receiving PMR units should be tuned to the same Channel and CTCSS or DCS code (if applicable).

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EC Declaration of Conformity

We the manufacturer / Importer : Binatone Telecom Plc
 1 Apsley Way London
 NW2 7HF, United Kingdom.

Declare under our sole responsibility that the following product

Type of equipment: Private Mobile Radio

Model Name: Terrain 750 Series

Country of Origin: China

Brand: Binatone

complies with the essential protection requirements of R&TTE Directive 1999/5/EC on the approximation of the laws of the Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to **electromagnetic compatibility (EMC)** and the European Community Directive 2006/95/EC relating to **Electrical Safety**.

Assessment of compliance of the product with the requirements relating to the essential requirements according to Article 3 R&TTE was based on Annex III of the Directive 1999/5/EC and the following standard:

EMC: **EN 300 296 -2 V1.2.1:(2009-02)**
EN 301 489 -5 V1.3.1:(2002-08)
EN 301 489 -1 V1.8.1:(2008-04)



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

Electrical Safety: **EN 60950-1:2006+A11:2009**

The product is labelled with the European Approval Marking CE as show. Any Unauthorized modification of the product voids this Declaration.

Manufacturer / Importer
 (signature of authorized person)



Signature: Product Operation Director

London,

Place & Date: 8th Nov, 2010