Bínatòne

8 PMR Channels

- 121 Privacy Codes (CTCSS Tone
- and DCS Code)
- Up to 10 km Range* Submersible design
- Direct Call
- 122 Group Codes
- Silent Mode
- 10 Selectable Call/Ring Tone Alerts
 Group Scan
- Backlit LCD Display

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

*Range may vary depending on environmental and/or topographical conditions.

Roger Beep

All Call

Vibrate Reminder

Battery Charger

Channel Monitor

Channel Scan

Keypad Lock

Battery Level Meter

Auto Channel Change Call

Marina 900 RADIO



Binatone Help Line - 0845 345 9677

Congratulations on your purchase of the Binatone Marina 900 Marina 900 (Private Mobile Radio) waterproof Private Mobile Radio radio. This lightweight, palm-sized, radio is a stateof-the-art device, equipped with many valuable **USER GUIDE** features. Use it at sporting events, to stay in contact with family and friends, hiking, skiing, outdoors, or in a neighborhood watch for vital communication - even outside by the pool!

Your radio complies with JIS7 water-resistant standards, which means the radio can be submerged in 1.0 metre deep water for 30 minutes without damage.

After your radio is submerged in water, you might notice that the sound is distorted. This is because there is still water remaining in and around the speaker and microphone. Just shake the radio to clear excess water, and the sound should return to normal. Note: If your radio is exposed to salt water, clean vour radio thoroughly with fresh water, and dry it before turning it on.

PACKAGE CONTENTS

Your package contains: Two Marina 900 radios Two rechargeable NiMH battery packs One AC adapter One dual charging cradle Two belt clips This user guide

INSTALL THE BATTERY

Your radio uses a supplied NiMH battery pack.

To install the NiMH battery pack:

1) Make sure the radio is off. 2) Turn the screw holding the battery compartment counterclockwise with a A screwdriver, and lift up the battery cover.

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) Put the NiMH battery pack in the battery compartment with the battery

contacts to the lower charge contacts, as shown, and follow the Fo Ø instructions

- $\mathcal{A} \sim \mathcal{A}$ written on the battery pack's label. Installing the battery pack incorrectly will prevent the unit from operating.
- 1) Before placing the battery cover back on the, radio, make sure the ribbon of the battery pack is fully inside the battery compartment, and check the rubber seal to make sure that the seal is in good condition and that there is no foreign matter under the seal.

5) Replace the battery compartment door. Tighten the screw securely.

USING THE RADIO BATTERY LEVEL AND LOW **BATTERY ALERT**

This radio has a battery level meter that indicates the status of the batteries. When the battery level is low, the battery level meter icon I flashes and then **BATT** appears after 30 seconds. Recharge the NiMH battery pack immediately.

Warning! To avoid the risk of personal injury or property damage from fire or electrical shock, only use the accessories specifically designated for this product.

CHARGING THE RADIO

Your radios include a dual charging cradle and rechargeable battery packs. Follow these instructions to recharge the radios in the charging cradle

Make sure to turn the radio OFF before placing the radio in the charging cradle.

Using the Charging Cradle

1) Connect the adapter's plug in to the DC IN 9V socket in the back of the charging cradle and plug

the adapter into a mains AC outlet.



2) Set the charging cradle on a desk or tabletop, and place each radio in the charging cradle with the keypad facing forward.

Make sure that the LED illuminates. Charge the battery pack for 16 hours and remove the radio from the charging cradle after charging.

- Charge time may vary depending on the battery life remaining.

- For fastest charging, turn off the radio before
- charging. Warrning!:
- The charging cradle is not waterproof. If the charging cradle falls into water, unplug it before attempting to remove it from the water. Allow the cradle to dry completely before reconnecting the power.

Wipe off dirt or shake water from your radio before placing in the charging cradle if your radio is soiled or wet.

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INSTALL THE BELT CLIP

Your radio includes a belt clip.

To install the belt clip:



To Remove the belt clip:

1) Pull the belt clip latch away from the radio. 2) While pulling the belt clip latch, push the belt clip up.

USING THE RADIO

In order to get the most out of your new radio, read this user guide completely before attempting to operate the unit.

Turning the Radio On and Adjusting the Volume

- 1) Press and hold the **b** to turn the radio ON. 2) To change the volume level, press the
- **VOL** \wedge or \vee to increase or decrease the volume level then press ENTER/ 6.

Press and hold the O to turn the radio OFF.

Choosing a Channel

Your radio has 8 channels and 121 Privacy codes vou can use to talk to others. In order to speak to someone, both your radios must be set to the same channel and Privacy code.

To choose a channel:

Pless $CH \land$ or \lor to go to channel mode. To select the desired channel, press $CH \wedge$ or \vee . And then press ENTER/ at con rm.

• To change the channel continuously, press $CH \wedge or \vee$, then press and hold $CH \land or \lor for more than 1 second.$

SETTING UP GROUP MODE

In order to use Group Mode you need to initialize a couple of settings in your radio:

- · Set the radio to Group Mode
- Set a Group Code
- Set a Unit Number
- · Set a "Nickname"

Setting the Radio to Group Mode

To set the radio to Group Mode, which enables Direct Call. Auto Channel Change and All Call. press and hold TONE/GROUP for 2 seconds. The radio displays GRP and group code.

Note: In group mode, you cannot receive transmissions from other radios unless they are also set to the same channel and group code.

Setting the Group Code

Set the group code for your radio group from 0-121. Everyone in your group must select the same group code in order to communicate with each other.

1) Tap TONE/GROUP in group mode. Press $CH \wedge$ or \vee to select the aroup number. 2) Press ENTER/ a or TONE/GROUP to return to normal operation.

Setting the Unit Number

Each radio in your group needs to be set to a unique unit number. from 1-16.

- 1) Press MENU. Advance through the menu until UNIT appears, and then press ENTER/ . The current unit number flashes.
- 2) Press $CH \wedge$ or \vee to select the desired unit number.
- 3) Press ENTER/ to continue to the next section.

Setting Your Nickname

Your nickname appears on other units' displays when you make a All Call or direct call. This is also the name that appears on other radio displays when someone wants to make a direct call to you. When no nickname is set, the unit number appears.

- 1) Press MENU. Advance through the menu until UNIT appears, and then press ENTER/ A. The current unit number flashes, then tap ENTER/ **a**. The radio displays **n** (or your current nickname) with the first place in the nickname flashing.
- 2) Press $CH \land$ or \lor to select the letter, then ENTER/ a to advance to the next letter until you have entered your nickname.
- 3) Press MENU to confirm the setting and exit the menu

Using Group Mode

Group mode lets you make direct calls to other people in your group without alerting the entire group and also lets you guickly change everyone in your group to another channel from a single radio. Before using group mode, follow the instructions in "Setting Up Group Mode" on every radio in your group. Then, to record the unit ID Binatone Help Line - 0845 345 9677 and everyone's nickname in every radio, send a

call to "All" from each radio one time (see "Sending a Direct Call").

Sending a Direct Call

Direct Call lets you call everyone in your group at once, or call a single person in your group without anyone else in the group knowing. It is like a "speed dial" directly to the person(s) you want to talk to.

To call everyone in your group, press CALL in group mode. The radio flashes ALL. Then, press CALL or ENTER/ . Everyone in your group receives a call "chirp" for about 3 seconds. When the chirp ends, begin your conversation.

Note: When you make a direct call to "all." your radio also sends out your nickname or ID so that it will show up in the call list for everyone in your group.

To call one person in your group, without having other people know, press CALL in aroup mode. Then, use $CH \wedge or \vee$ to select the person you want to call and press CALL or ENTER/ . Your radio sounds tones for 3 seconds as it sends the call. When the selected person answers, you can begin your conversation. You can silence the call tones at any time by pressing PTT.

Your conversation remains private between you and the person you called until 15 seconds after your last conversation. Then, your radio automatically exits private mode.

Automatically Changing Channels

Auto Channel Change lets you easily coordinate a channel change for everyone in your group. You might want to do this when you find you are getting a lot of interference on your current channel.

To start an auto channel change, on any radio in the group tap **MENU**. Advance through the menu until CHCX appears, then press ENTER/ . The current channel flashes. Use $CH \land$ or \lor to select the target channel. You can check whether the selected channel is clear. Then press CALL or ENTER/ 8.

Your radio chirps for about 10 seconds while it sends out the channel change signal. As each radio receives the channel change signal, it chirps once, then changes to the new channel.

To ensure all radios make it to the new channel, we recommend you:

- Make sure you are in an open environment. where the radio will get the best range.
- Optimize range during the channel change signal by raising the radio over your head to give the best possible height.

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• Do a "roll call" on the new channel after the move to be sure no one was left behind. If you missed someone, return to the previous channel and issue the signal again.

USING THE RADIO IN STANDARD MODE

Use the radio in standard (not group) mode when you need to be able to communicate with radios that do not have the group feature.

Choosing a Privacy Code

You can select a Privacy Code from 1-121 for each channel. oFF (OFF) indicates no Privacy code selected and your radio can receive a signal regardless of the code settings of the transmitting radio.

- 1) Press TONE/GROUP. The Privacy code indicator flashes.
- 2) Press **CH** \wedge or \vee to increase or decrease the code. You can also select oFF.
- 3) Press ENTER/ a or TONE/GROUP to return to normal operation.

Note: Only tones 1-38 are standard across radio brands. Other settings might differ from brand to brand. See the specifications for the specific tones used for each setting.

Channel Scan Feature

Your radio has a channel scan feature that lets you easily scan all 8 channels. When an active channel is detected, the radio pauses on that channel until the channel is clear. Then after a 2-second delay. the radio resumes scanning. Pressing PTT while the scan is paused on a channel lets you transmit on that channel.

To turn on channel scan:

Press MENU. The radio displays SCAN, and then press **ENTER (a**). The channel number changes as the radio rapidly cycles through the channels. To turn off channel scan:

Press MENU, PTT or CALL.

Talking on Your Radio

To talk to others using the radio:

- 1) Press and hold PTT and speak in a clear, normal voice about 2-3 inches away from the microphone. While you transmit, TX appears on the display according to the type of channel. To avoid cutting off the first part of your transmission, pause slightly after pressing PTT before vou start talking.
- 2) When you finish speaking, release PTT. You can now receive incoming calls. While receiving, **RX** appears on the display.

Note: When you press PTT, TX appear on the display. If PTT is continuously pressed, 1 minute after you start pressing **PTT** the transmission stops and you hear a timeout error tone.

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Monitor Mode Feature Your radio lets you listen for weak signals on the	Note: To prevent unwanted silent alerts, be sure to use a Privacy code or group code whenever you	To turn OFF this beep: Press CH V to display oF, then press ENTER/ a.				
current channel at the press of a key.	use the Silent mode feature. You can hear the received voice when you turn on	To turn ON this beep:				
To turn on the Monitor Mode:	channel scan and an active channel is detected	Press CH A to display on, then press ENTER a .				
For brief listening, press <i>MON</i> . MON appears	even during silent mode.	Key Lo	ck			
and RX flashes.Press and hold <i>MON</i> for 2 seconds until two	Missed Call Alerts	Press and hold the ENTER/ until the LOCK			the LOCK	
beeps sound for continuous listening. The	If you receive an incoming call while silent mode is	appears.				
receiver circuit stays open, so you hear both the noise and weak signals.	on and do not respond, the radio will turn on the Missed Call icon.		To exit Keylock on mode, press and hold ENTER again until UNLK appears.			
To turn off Monitor Mode:	The radio will additionally remind you of a missed call by vibrating every minute after the call for 3	Note:	a in kaylaak an	mada yay a	n still use the	
Press <i>MON</i> to return to the previous mode. MON and RX disappear.	minutes.	 While in keylock on mode, you can still use the radio to receive transmissions, use CALL in Standard mode, VOL ∧ or ∨, PTT, MON and 			e CALL in	
Navigating through the Normal Menu	Transmitting a Call Tone		rn on or off the			
To access the advanced features of your radio it	Your radio is equipped with 10 selectable call tones	• The radio retains the keylock status even when ye				
has a Menu function. Note: Auto Channel Change (CHCX) only appears	that are transmitted when you press <i>CALL</i> in standard mode. The selected tone will be also heard	cycie	e power.			
if your radio is set to Group Mode.	when someone places a direct call to you.	Automatic Power Save Feature				
Scan Silent Auto	To select a call tone:	Your radio has a unique circuit designed to				
Wode Wode Change line Setting Deep line	 Enter the menu. Advance through the menu until CALL appears, then press ENTER/ The current call tone number (1-10) flashes. 	dramatically extend the life of the batteries. If there is no transmission nor an incoming call within 3 second your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode				
Change Change Ont Number ON-OFF	2) Press $CH \land$ or \lor to increase or decrease the	radio is	Suil able to rece	eive transmiss	SIONS IN UNIS MOO	
Start Start	number to the desired call tone. Each tone will be heard through the speaker.	LCD Backlight				
Scanning					ns on when any e LCD remains li	
	To transmit the selected call tone, press <i>CALL</i> . The selected tone is transmitted for a fixed length of		econds before t			
 To enter the menu, press <i>MENU</i>. Additional presses of <i>MENU</i> advances you 	time. Call Tone is cancelled if you press <i>PTT</i> .		0050		•	
through the menu. After the last menu item, the			SPEC	IFICATION	5	
radio exits to the previous mode.	Roger Beep Roger beep is a beep that is sent to notify the end			8 channels		
3) Other ways to exit the Menu function are: a. Press <i>PTT</i> , <i>MON</i> , <i>CALL</i> or <i>TONE/GROUP</i> .	of transmission. You can hear the roger beep	Sub Co	des	38 CTCSS 3 83 DCS Co	SubAudible Tor des	
b. Wait 10 seconds until the radio automatically	through the speaker when both roger beep	Operating Frequency 446.00625 - 446.09375 M				
returns to the previous mode.	and Beep Tone are on. When roger beep is on and Beep Tone is off, you do not hear the roger beep,	Power S	Source	NiMH Batte	,	
Setting Silent Mode	but it is transmitted to your party.	Range Battery	l ife	Up to 10 km 16 Hours ty		
When you turn on the silent mode, all incoming	To set the roger beep, enter MENU . Advance	Dattory	LIIC		k (5/5/90 duty	
calls are muted: the radio flashes the display backlight, the channel indicator, SLNT and CALL	through the menu until RGR appears, then press			cycle)		
to alert you to an incoming call. If you do not	ENTER/ A. The current setting flashes.	Freque	ncv Chart			
respond to the call within 15 seconds, the backlight turns off. The radio will also vibrate to remind you	To turn OFF roger beep:	Frequency Chart				
that you missed a call. Silent mode is disabled for	Press <i>CH</i> V to display oF, then press <i>ENTER</i> / a .	Ch.	Freq. [MHz] 446.00625	Ch. 5	Freq. [MHz] 446.05625	
15 seconds when you transmit, receive, or press any other button.	To turn ON roger beep:	2	446.01875	6	446.06875	
To set the silent mode:	Press CH A to display on, then press ENTER/	3	446.03125 446.04375	7 8	446.08125 446.09375	
1) Enter the menu. Advance through the menu until	Adjusting the Sound (Beep Tone)					
the SLNT appears, then press ENTER/ . The	Your radio sounds a beep each time you press a		Chart (Hz)			
current setting flashes. 2) Press <i>CH</i> ∧ to display on , or press <i>CH</i> ∨ to	key (except for PTT).	Code	Freq.	Code	Freq.	
display oF, then press ENTER /	To set the sound, enter MENU . Advance through the menu until TONE appears, then press	oFF	OFF 67.0	20 21	131.8 136.5	
	ENTER/ . The current setting flashes.	2	71.9	22	141.3	
	1					
		3	74.4	23	146.2	

	Code	Freq.		Code	Freq		Effect
s ENTER/ 🔒.	4	77.0		24	151.4	1	The
	5	79.7		25	156.7	7	depe
	6	82.5		26	162.2	2	being
s ENTER/ @ .	7	85.4		27	167.9)	guide
	8	88.5		28	173.8	3	expe
	9	91.5		29	179.9)	
e LOCK	10	94.8		30	186.2	2	Signal
ald ENTER/O	11	97.4		31	192.8	3	
old ENTER/	12	100.0		32	203.5	5	
	13	103.5		33	210.7	7	
	14	107.2		34	218.1	I	
still use the	15	110.9		35	225.7	7	
CALL in	16	114.8		36	233.6	6	
T, MON and O	17	118.8		37	241.8	3	Range
a avan whan you	18	123.0		38	250.3	3	The
s even when you	19	127.3					shov
							The
	DCS C	ode List					envir
ed to							(3) 2
eries. If there is	Code	Octal	Code	Octal	Code	Octal	only
within 3 seconds,	No.	Code	No.	Code	No.	Code	will b
e mode. The	39	023	67	174	95	445	Bina
ons in this mode.	40	025	68	205	96	464	(for
	41	026	69	223	97	465	Mond from
	42	031	70	226	98	466	Tel: 0
s on when any LCD remains lit	43	032	71	243	99	503	**Plea
	44	043	72	244	100	506	01 113
	45	047	73	245	101	516	
	46	051	74	251	102	532	
	47	054			102	546	
	48	065	75	261	103	565	
ubAudible Tones	-		76	263			
es	49	071	77	265	105	606	
446.09375 MHz	50	072	78	271	106	612	
Pack	51	073	79	306	107	624	
- NiMH	52	074	80	311	108	627	
	53	114	81	315	109	631	
(5/5/90 duty	54	115	82	331	110	632	
	55	116	83	343	111	654	
	56	125	84	346	112	662	
	57	131	85	351	113	664	
Freq. [MHz]	58	132	86	364	114	703	
446.05625	59	134	87	365	115	712	
446.06875	60	143			116	723	
446.08125	61	152	88	371	117	731	
446.09375			89	411			
	62	155	90	412	118	732	
	63	156	91	413	119	734	
Freq.	64	162	92	423	120	743	
131.8	65	165	93	431	121	754	
136.5	66	172	94	432			
141.3							
146.2							
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Effective Range

Transmission range of the product is pendent on the environment terrain where it is ing used, the following diagram attempts to ide the user on the sort of performance to pect for everyday use.



ge Check

Transmission range will be affected as own in the above diagram. e transmitting range typical values for different vironment conditions will be (1) 10 km (2) 4 km 2 km. It should be remembered that these are quide values as actual achieved distances be dependent on the environment and terrain. atone Helpline

r UK only)

nday to Friday n 9:00am to 5:00pm 0845 345 9677 lease note that all calls are charged at local rate visit our website: www.binatonetelecom.com

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GUARANTEE

The Binatone Marina 900 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 voltage.

Please keep your sales (till) receipt - this is your guarantee. You should also keep the original packaging materials.

When unpacking your Binatone Marina 900, check for visible damage. If you see any damage, do not use the PMR - return the whole unit to where you bought it.

If your Binatone Marina 900 develops a fault, and you can't solve the problem, return the whole unit as follows:

While the unit is under guarantee

- Pack up all the parts of your Marina 900, using the original packaging. Remember to include the mains adapter and charger.
- 2. Return the unit to the store where you bought it, and make sure you take your sales receipt as your proof of purchase.
- 3. In the unlikely event that you need to return your Marina 900 to our Repair Centre while it is under Guarantee, please include the sales receipt. There may be a handling charge for repair of unit under Guarantee.

Repair after the Guarantee has expired

If the unit is no longer covered by Guarantee, first follow step 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 Marina 900 for repair.
- 3. Return your Marina 900 to the address given by the Service Department, making sure to 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.

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.

BINATONE TELECOM PLC

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EC Declaration of Conformity

We the manufacturer / Importer Binatone Telecom Plc

1 Apslev Way London NW2 7HF, United Kingdom.

Declare under our sole responsibility that the following product Type of equipment: Model Name:

Private Mobile Radio

Brand.

Country of Origin:



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 1999/105/EC and the following standard:

EMC&RF:

EN 301- 489-1 V1.8.1:(2008-04) EN 300-296-1 V1.1.1:(2001-03) EN 300-296-2 V1.1.1:(2001-03) EN 300-341-1 V1.3.1(200012) EN 300-341-2 V1.1.1(200012)

EN 301- 489-5 V1.3.1:(2002-08)

Electrical Safety



Signature:

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

EN 60950-1:2006

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: (K.H.Mueller, CT0)

Place & Date: 8th Aug, 2010

Binatone Help Line - 0845 345 9677

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