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1. Introduction

The new handheld marine transceiver **PACIFIC** is able to satisfy communication requirements for all types of navigation whether professional or hobbyist. **PACIFIC** is robust, electronically advanced and enables clear and reliable communications on the VHF nautical band for all international channels assigned by ITU.

It offers security for all navigational requirements thanks also to a dedicated button that gives instant access the emergency channel N.16.

PACIFIC, which boasts 57 channels and outputs 5W transmission power, is made up of components specifically designed for this type of equipment.

PACIFIC is particularly straightforward to use and guarantees best performance in all situations, thanks also to the keypad lock that prevents accidental pushing of buttons while handling the device. A LCD back lit display enables its use in darkness or poor visibility.

In short: PACIFIC is easy to use and it offers total security!

Main features:

- PLL (Phase Locked Loop) synthesizer circuit for precise and stable channel selection.
- Back-lit LCD display constantly displays radio's parameters and settings. The backlighting enables you to view the screen when there is little environmental light.
- Automatic squelch while in standby, this function automatically eliminates bothersome background noise and reduces the battery drain.
- Recall button for Channel 16 for instant access to channel 16 (the most used marine channel mainly used for emergency contact).
- High/low power selection reduces transmission power in short-distance communication, allowing the radio to save energy and reducing the risk of interference.
- Keypad lock locks the transceiver keypad to avoid the accidental activation of buttons or settings.
- Battery discharged icon alerts you when the batteries are low.
- Sockets for speaker and microphone these sockets enable the use of various external microphone optional accessories (headphone, microphone/speaker, etc), for a more comfortable use, particularly in noisy environments.
- You can use your marine transceiver either with Ni-MH rechargeable batteries or with non rechargeable alkaline ones.
- · Channel scanning automatically searches for marine band channel signals.

NOTE: The manufacturer, with its effort to constantly improve product quality, reserve the right to change characteristics and features without prior notice.

2. Above all... safety!

2.1 Symbols used

For ease and convenience of use, this manual uses symbols to highlight urgent situations, practical advice, and general information.

- ! Exclamation marks such as this one indicate a crucial description regarding technical repairs, dangerous conditions, safety warnings, advice, and/or other important information. Ignoring these symbols may result in serious problems and/or damage and/or personal injury.
- Notes such as this one indicate practical advice that we suggest be followed for the optimal performance of the equipment

2.2 Warnings

- ! DO NOT TRANSMIT WITH THE DAMAGED ANTENNA OR WITHOUT THE ANTENNA CONNECTED - although the radio is protected, this may seriously damage its R.F. power stages. Do not use your transceiver if the antenna is damaged.
- ! Do not keep the antenna too close to your head and body during transmission.
- ! Do not hold the transceiver by the antenna! This is a delicate part of the device and is vital for the proper functioning of the radio.
- Pay attention to environmental conditions although the radio was designed to operate under the most severe conditions it is important to avoid exposure to environments that are excessively humid or dusty, or to temperatures outside the -15° to +55°C° range. Also avoid exposure to direct sunlight.
- ! Avoid strong mechanical shocks and excessive vibrations, the radio is designed to bear mechanical shocks and vibrations, provided that they're the normal ones borne by any electrical equipment.
- ! Do not use the radio, its accessories, and/or substitute the batteries in potentially explosive environments. A single spark may cause an explosion.
- ! BATTERIES Strictly follow all the directions and warnings on the batteries stated at chapters 4.3 and 4.4
- ! Do not open the radio for any reason! The radio's precision mechanics and electronics require experience and specialized equipment; for the same reason, the radio should under no circumstances be realigned as it has already been calibrated for maximum performance. Unauthorized opening of the transceiver will void the warranty.
- ! Do not use detergents, alcohol, solvents, or abrasives to clean the equipment. Just use a soft, clean cloth. If the radio is very dirty, slightly dampen the cloth with a mixture of water and a neutral soap.
- ! Your VHF marine handheld transceiver has a built-in VHF radio transmitter. Be aware that, when you press the PTT button, the radio emits radio frequency (R.F.) energy.
- ! Before using the radio, ensure that all protective covers and parts are in perfect operating condition, in order to ensure maximum protection against humidity and atmospheric agents.

2.3 Service

We advise you to write the serial number of your transceiver in the space provided below. This number is found on the rear panel of the transceiver and will be useful in the event of repair/ assistance and/or loss and/or theft.

Serial Number _____

5

3. Identifying the parts

3.1 Display



Your marine transceiver keeps you constantly updated about its operational status through a Liquid Crystal Display (LCD). The symbols and their corresponding parameters that may appear, according to the operational status of the device, are described as follows:

- a. VOX Activation of VOX function;
- b. TX During transmission (when you press PTT button)
- c. se: warns you of battery low charge;
- d. Channel These two large digits show the selected marine channel;
- e. INT/USA/CAN and the first of the 2 small digits Specify the frequency band in use (USA and CAN: can be activated by means of the optional programming software PRG PACIFIC, but they are for American version only).
- e-1 Second small digit Gives further information with regards to the channel being used ("d" duplex).
- **f. a** Appears when the keypad lock is activated.
- g. "- This symbol marks activation of weather information channels (only for American version bands USA and CAN).
- h. LO (Low) / Hi (High) indicates the selected power level.
- i. **RX** (busy channel): appears when the transmitter is receiving a signal.

3.2 Radio



Refer to the following images to identify the various parts of the device:

- 1. VOLUME control On/off switch for the device and adjusts VOLUME of reception.
- 2. PTT (press to talk) Press this button to switch to transmission
- 3. Button '16' Press this button to instantly recall channel 16.
- 4. Built-in MICROPHONE Here is where sound is picked up by the microphone.
- 5. Built-in SPEAKER Here is where the speaker is housed.
- 6. **ANTENNA** Receives and transmits radio signals.
- 7. MIC/CHG Socket (under protective cover) To connect to external audio devices (headphones, microphone etc.) and to the battery charger.
- 8. MENU button Press this button to display the device's MENU.
- MONITOR/SCAN button Press this button once to activate SCAN (scanning of channels). Keep the same button pressed for about 2 seconds to activate MON function. This function temporarily cuts off Squelch (for weak signals)
- ▲/▼ buttons Press these buttons to select channel number and to change setting within the MENU.

4. Preparing the transceiver

Make sure the following items are supplied in the package before you start using your transceiver:

- Transceiver;
- Desk/wall support
- · NiMH battery pack
- Belt clip;
- · Desktop charger along with adaptor;
- 2-way car lighter charger;
- User manual;

If any of the above is missing or damaged contact your supplier immediately.

4.1 Installing and removing the belt clip

With the belt clip you can easily attach the transceiver to your belt. The clip however, must be removed in order to install or change the batteries. To remove the belt clip follow the instructions of picture 1. To fix the clip back to the device slot it in the guides at the back of the transceiver until it clicks into place.

4.2 Installing and removing batteries

The transceiver is operated by the supplied NiMH battery pack or by 4 optional AA battery. These can be either one of two types:

- Rechargeable NiMH (1,2 V) available in different capacity (in mA/h). Batteries with higher capacity will supply longer charger but will require longer times to recharge.
- Non-rechargeable alkaline (1,5 V)
- ! Do not install rechargeable and alkaline batteries at the same time in your transceiver. Always use the same batteries as a set (type and make) so that you can be sure their level of charge is the same.
- ! If you do not use the transceiver for a long time remove the batteries/ battery pack.

4.2.a Installation

- 1) Remove the belt clip as explained in paragraph 4.1;
- 2) Open the batteries compartment as shown in picture 2;
- 3) Insert the battery pack into the battery compartment as shown in picture 2.
- 4) Replace the cover on the batteries compartment.
- 5) Replace the belt clip.
- ! If you use the batteries, be careful to insert them with the correct polarity as illustrated inside the compartment.
- ! Be careful to snap close the battery cover.





Picture 1

4.2.b Removal

- 1) Follow steps 1 and 2 of par 4.2.a;
- 2) Remove the battery pack from the device;
- 3) Follow steps 4 and 5 of par 4.2.a.

4.3 Recharging batteries

Batteries can be recharged without taking them out of the transceiver (but the device must be turned off); batteries take 8-10 hours to fully recharge (battery pack 800mAh).

To recharge batteries by means of the 2-way car lighter charger:

- 1. Carefully lift the rubber protection of the socket MIC/CHG.
- 2. Insert the jack of the battery charger into the socket **MIC/CHG** of the radio, then connect the battery charger to the car lighter charger. Charging will begin
- 3. When charging is complete pull out the charger's jack from the radio and detach it from the mains. Replace the rubber protection mentioned in step 1.
- ! Do not overcharge the batteries! When these are fully charged the charging process does not stop automatically. Do not forget therefore, to remove the charger from the transceiver as soon as the batteries are charged.
- ! Do not try to charge alkaline batteries or non rechargeable batteries. Make sure that when you connect the charger only rechargeable batteries NI-MH should be contained in the batteries compartment! It is very dangerous attempting to recharge other types of batteries (for example alkaline batteries). Batteries which are not suitable to be recharged may leak, explode or even burn and cause damage!
- ! Using a different battery charger other than the one specified can cause damage to your device or may even cause explosions and personal injuries.
- ! Do not throw batteries into fire or place them near heat as this may cause explosions or personal injuries. Dispose of the batteries according to procedures set out by local regulations.
- ! Do not mix old and new batteries or batteries of different types or batteries which have been used in different manners. Every battery set which is being used must always be composed of the same elements.

Recharge of the battery pack by means of the desktop charger and wall adaptor:

Connect the socket of the wall adaptor to a mains power socket and insert the jack of the wall adaptor into the desktop charger plug.

Place your transceiver into the cradle of the desktop charger.

When charging is complete take the transceiver out of the cradle and detach the socket of the wall adaptor from the mains.

4.4 Memory effect of rechargeable batteries

Rechargeable NiMH (Nickel-Metal-Hydrate) batteries are affected by what is known as the "memory effect". This phenomenon is associated with a drastic reduction of battery autonomy and is triggered if the batteries are regularly charged before being fully discharged and/or are not completely recharged. To avoid the memory effect:

- When possible, recharge the batteries only when they are completely discharged (until the device turns itself off during normal use)
- Do not disconnect the battery charger before the time indicated for a full battery charge.
- · Discharge and recharge your batteries completely at least twice a month. In any case, the best

solution for avoiding the memory effect is to use in turn two battery sets: one in use, and the other as a spare set.

The memory effect can be easily eliminated by completely discharging/charging the batteries 3 or 4 times.

The memory effect should not be confused with the normal battery life, which is 400 cycles of charge/discharge on average. It is completely normal for operating duty to decrease when the batteries have reached the end of their life; at this point, you will need to substitute the battery set.

5. Basic operations

5.1 Turning on/off

To turn on the transceiver, turn the **ON/OFF/VOLUME** knob clockwise until you hear it clicks: the LCD display will light up and do an Auto-Test. Subsequently you will hear 1 beep. To turn off the transceiver, turn the knob counter-clockwise until you hear another click.

5.2 Selection of the operational channel

- 1) Press once the **MENU** button. The number of the channel will start flashing on the display.
- 2) Press the ▲/▼ buttons to scroll up or down the channel list till you select the desired channel.
- 3) Press the **PTT** button to confirm, or wait for 10 seconds.
- Refer to the table of frequencies. Moreover, the reception frequency could be different (duplex channels) from the transmission frequency or it could be the same (simplex channels). Normally communications among vessels can only take place on simplex channels.

5.3 Volume control

Turn the knob **VOLUME** to about half way and adjust it to a comfortable level as soon as you receive a signal. If you do not receive a signal you can use the button **MON/SCAN** described at par. 5.5.

Ensure the channel you've selected is not a reception-only channel (otherwise the transmission will be disabled) and that no one else is talking (this will appear on your display as the BUSY icon).

5.4 Transmission and reception

The button PTT is located on the top left side of the device. To transmit:

- 1) Make sure that the selected channel is not reception-only, (otherwise the transmission will be disabled) and that no one else is currently talking;
- 2) Keep button PTT firmly pressed: TX will appear on the display;
- Before you start talking wait for a fraction of a second then speak normally, in the direction of the microphone, and hold the device at a distance of about 5 cm.
- 4) When you have finished release the button PTT: TX will disappear from the display;
- 5) When the button is in reception mode (**PTT** not pressed) you will automatically receive any communication;

During transmission and reception try, as far as possible, to keep the antenna in vertical position and to avoid obstacles towards the direction of the other party.

5.5 Button MON (Monitor)

The Monitor button is for temporarily excluding (opening) the squelch, in order to listen to signals that are too weak to keep the squelch permanently opened. By excluding the squelch you will avoid listening the communication "chopped" by the squelch. In order to activate the Monitor function, so as to listen to all traffic on the selected channel, keep pressed the **MON/SCAN** button for about 2 seconds. Keep pressed the button **MON/SCAN** for about 2 seconds to disable this function.

5.6 Choosing high or low transmission power

Batteries are drained more quickly during transmission. In order to extend the battery life you can select the low power when transmitting over short distances:

- 1) Press the MENU button twice and the writing 'Pr' will display.
- 2) Select LO using the scroll buttons ▲/▼
- 3) Press PTT to confirm, or wait for 10 seconds.

If you want to transmit a longer distance repeat the above procedure to select the high power. At step 2 use the \blacktriangle/\forall to make the writing *LO* disappear. When the batteries are in good conditions, high power is about 5 watt, whereas low power is about 1 watt.

A low battery level during transmission will have a negative effect on the performance of your device.

5.7 LCD backlight

If there is insufficient light to read the display you can press the **MENU** button to switch the display back light on for about 5 seconds.

Switching the back light on the display adds an additional drain on the batteries. Try to make a moderate use of this.

5.8 Instant selection of Channel 16

Channel 16 is the marine channel most frequently used for emergency. Your transceiver is equipped with a button that provides instant access to this channel. To recall rapidly channel 16 press the button **CH 16**. No matter what mode the device is operating, channel 16 will be selected immediately. To go back to the previously selected channel press again the button **CH 16**.

5.9 Power saving feature

The battery power saving feature **enables a reduction in the consumption of up to 50%**; power saving comes on automatically when the transceiver does not receive any signal for more than seven seconds.

When the battery pack is almost discharged, the radio will switch to '*Lo*' power; then, this icon will appear \implies to indicate that the battery pack is discharged. Replace the alkaline batteries or recharge the battery pack/rechargeable batteries.

6. Advanced functions

6.1 Scanning all channels

PACIFIC can automatically search for signals throughout the marine band by scanning, i.e. selecting the channels in rapid sequence. When a signal is detected, the scanning pauses on that channel and remains blocked for five seconds before automatically begins scanning again to give you the chance to find other communication.

Press briefly the button MON/SCAN to start scanning:

Press again **MON/SCAN** to stop scanning. Your transceiver will go back to the channel from which the scanning originally started.

Once you are tuned in the communication you were looking for, press **PTT** to talk on the selected channel. **PACIFIC** will however remain in scanning mode (which is indicated by the flashing of the channel on the display) and it is possible to start scanning again by pressing the $\blacktriangle/\checkmark$ buttons. If you press **PTT** during scanning you can transmit on the channel from which the scanning started. The \bigstar/\checkmark keys allow you to change the direction of scanning (from lower channels to higher ones or vice versa) and therefore to skip communications which are of no interest.

6.2 VOX Function

PACIFIC enables hands free conversations through **VOX** function. The degree of sensitivity of **VOX** function can be adjusted to three different levels. You can enable **VOX** function with or without accessories.

- To activate VOX function press the MENU button four times (except for CH75-76) and VOX will appear on the display
- 2) Use the ▲/▼ keys to select:
 - A. High sensitivity
 - B. Middle sensitivity
 - C. Low sensitivity
- 3) Press PTT to confirm or wait for 10 seconds

To disable VOX function follow the instructions above and select option 'oF'.

VOX has a better performance when used in conjunction with the optional accessories which plug in the appropriate outlet. This will enable you to keep the microphone at constant distance from your mouth and by holding the transceiver on the belt you can carry on working with your hands in total freedom.

6.3 Keypad lock

You can lock the keypad of your transceiver and avoid pressing buttons accidentally. All buttons are disabled with the exception of **MON** (opening squelch), **PTT**, **16**, **MENU** (removal of keypad lock). To insert keypad lock:

- Press three times the MENU button (except for CH75-76); 'Lc of will appear on the display and the symbol a will blink.
- 2) Using the ▲/▼ buttons select 'on'.
- 3) Press PTT to confirm or wait for 5 seconds.

To disable the keypad lock, press once the MENU button and select 'on'.

6.4 Roger Beep (End-of-message tone):

When you release the **PTT**, that is every time you end transmission, **PACIFIC** gives out a sound indicating to the other party that s/he can start talking. This function is factory set. To disable the function:

1) Press six times the MENU button (except for CH75-76); 'rb on' will appear on the display

- 2) Using the ▲/▼ buttons select 'oF'.
- 3) Press PTT button to confirm or wait for 10 seconds.

To reactivate this function repeat the above procedure. All step 2 use the A/V buttons to select 'on'.

6.5 DUAL WATCH

This function allows the monitoring of 2 channels of your choice by selecting the channels in rapid sequence.

Procedure:

- 1) Select the channel you want to monitor.
- 2) Press seven times the MENU button. 'of d' blinks on the display.
- 3) Select the second channel to monitor, by pushing the A/V keys.
- 4) Push **PTT** to activate the function.

When the Dual Watch is enabled, the display shows only the two monitored channels.

As for the Scan function, if you transmit when the Dual Watch is activated, the communication remains blocked on that channel for further 10 seconds to let you listening to the other party. Then, it will begin scanning the two channels again.

Press MON/SCAN to disable the Dual Watch.

The unit returns to the channel previously used.

6.6 Active band

The **PACIFIC** channel selection can be changed to follow the rules of USA, Canada or International regulations.

INT (international) – used in Italy and most countries of the world USA – used in the United States

CAN – used in Canada

CAN – used in Canada

- ! USA and CAN Bands: for American area only.
- ! It is your own responsibility to choose the correct band (by means of the optional programming kit PRG-PACIFIC), otherwise you may cause interferences with other services or you may not be able to communicate.

6.7 Private channels: programming and selection

Only authorized customers are allowed to use private channels. For detailed information contact your local radio communication authorities. To program the private channels, it is necessary to connect the optional programming kit **PRG-PACIFIC** or ask for information to your dealer. To set the programming mode, switch on the radio while keeping pressed the **MENU** button: the

lo set the programming mode, switch on the radio while keeping pressed the **MENU** button: the display will show '*Prog*'.

7. Troubleshooting

Your **PACIFIC** is designed to provide you with years of optimal performance. If for some reason problems arise, refer to this chapter before contacting a service centre in your region.

7.1 Solution table

Problem	Possible Cause	Solution	Ref.
The radio does not turn on	The batteries are not charged and/or are not correctly inserted	Ensure the batteries are charged and correctly inserted in the radio	4.2 4.3
The radio turns on, but does not receive signals	The volume is too low	The volume is too low	5.3
You are unsuccessful in establishing contact with your party	Incorrect selection of marine channel or local band	Check your channel and band	5.2
Reception is broken and/or with noise	Signal is extremely weak	Temporarily deactivate squelch using the Monitor function	5.5
	Your party is too far away and/or transceiver antenna is shielded by obstacles in the direction of your party	Move closer to your party and/ or move the transceiver to a less shielded area	-
	Other users are using the same radio channel	Check the radio traffic on the selected channel and change channels if necessary	5.2
	The radio is positioned too close to other interference devices (televisions, computers, transmitters, etc.)	Move the radio away from the interference devices	-
Battery life is short	Excessive use of display backlighting	Use less display backlighting	5.7
	Excessive use of transmission	Try to reduce transmission times and/or use low transmission power	5.6
	Memory effect is occurring with the batteries	Eliminate memory effect	4.4

8. Technical specifications

Channels	
Frequency generation	PLL synthesizer
Frequency range (International band)	TX 156,025 - 157,425 MHz
	RX 156,300 - 162,000 MHz
Antenna Impedance	50 Ohm
Power Supply.	6 VDC +/- 10%
Operating Temperature Range.	from -15° to +55°C
Size	
Weight (without batteries)	183 g
Duty cycle	TX 5%, RX 5%, Stand-by 90%

8.1 Transmitter

Output power	1 or 5 Watt (Selectable)
Modulation type	FM
Residual noise attenuation.	40dB
Audio distortion	

8.2 Receiver

Sensitivity @ 12dB SINAD.	0,3μV
Squelch sensitivity	
Adjacent channel rejection.	
Audio Output Power	
Intermediate frequencies.	1°:21,4 MHz ; 2°:450 KHz
Spurious rejection	- 40dB
Residual noise attenuation.	43dB
Socket for external microphone/charger/programming	2.5 mm stereo jack
Socket for external speaker	
Spurious rejection Residual noise attenuation Socket for external microphone/charger/programming Socket for external speaker	- 40dB 43dB 2.5 mm stereo jack 3,5mm mono jack

Specifications are subject to modification without forewarning.

INTERNATIONAL CHANNEL (INT)

Channel ID	Ship Station	
	Tx Frequency	Rx Frequency
01	156,050 MHz	160,650 MHz
02	156,100 MHz	160,700 MHz
03	156,150 MHz	160,750 MHz
04	156,200 MHz	160,800 MHz
05	156,250 MHz	160,850 MHz
06	156,300 MHz	156,300 MHz
07	156,350 MHz	160,950 MHz
08	156,400 MHz	156,400 MHz
09	156,450 MHz	156,450 MHz
10	156,500 MHz	156,500 MHz
11	156,550 MHz	156,550 MHz
12	156,600 MHz	156,600 MHz
13	156,650 MHz	156,650 MHz
14	156,700 MHz	156,700 MHz
15	156,750 MHz	156,750 MHz
16	156,800 MHz	156,800 MHz
17	156,850 MHz	156,850 MHz
18	156,900 MHz	161,500 MHz
19	156,950 MHz	161,550 MHz
20	157,000 MHz	161,600 MHz
21	157,050 MHz	161,650 MHz
22	157,100 MHz	161,700 MHz
23	157,150 MHz	161,750 MHz
24	157,200 MHz	161,800 MHz
25	157,250 MHz	161,850 MHz
26	157,300 MHz	161,900 MHz
27	157,350 MHz	161,950 MHz
28	157,400 MHz	162,000 MHz

Channel ID	Ship S	Station
	Tx Frequency	Rx Frequency
60	156,025 MHz	160,625 MHz
61	156,075 MHz	160,675 MHz
62	156,125 MHz	160,725 MHz
63	156,175 MHz	160,775 MHz
64	156,225 MHz	160,825 MHz
65	156,275 MHz	160,875 MHz
66	156,325 MHz	160,925 MHz
67	156,375 MHz	156,375 MHz
68	156,425 MHz	156,425 MHz
69	156,475 MHz	156,475 MHz
70		156,525 MHz
71	156,575 MHz	156,575 MHz
72	156,625 MHz	156,625 MHz
73	156,675 MHz	156,675 MHz
74	156,725 MHz	156,725 MHz
75	156,775 MHz	156,775 MHz
76	156,825 MHz	156,825 MHz
77	156,875 MHz	156,875 MHz
78	156,925 MHz	161,525 MHz
79	156,975 MHz	161,575 MHz
80	157,025 MHz	161,625 MHz
81	157,075 MHz	161,675 MHz
82	157,125 MHz	161,725 MHz
83	157,175 MHz	161,775 MHz
84	157,225 MHz	161,825 MHz
85	157,275 MHz	161,875 MHz
86	157,325 MHz	161,925 MHz
87	157,375 MHz	157,375 MHz
88	157,425 MHz	157,425 MHz