

DYNASCAN

PMR-446 HANDHELD TRANSCEIVER



INSTRUCTION MANUAL

DYNASCAN
LB23

*License-free PMR-446 two-way radio for
instant free communication!*



English

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1.- LEGAL INFORMATION:

This transceiver is designed for free communication, so it is not necessary to purchase administrative authorization or licences in order to use it and it is intended for use in the following Member States of the European Union:

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	EL	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK



This equipment complies with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE). This means that this product must be disposed of at a designated collection point for the recycling of waste electrical and electronic equipment, with the intention of being either recycled or dismantled in order to reduce any impact on the environment. For more information, please contact your distributor, salesperson or regional administration.

Electronic products that have not been disposed of in this way are potentially dangerous for the environment and public health due to the possible presence of dangerous substances.



This equipment complies with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS). The restricted substances are: Lead (<0.1%); Mercury (<0.1%); Hexavalent chromium (<0.1%); PBB (<0.1%); PBDE (<0.1%); Cadmium (<0.01%).

- This instruction manual has been created with the intention of supplying as much information as possible. PIHERNZ COMUNICACIONES, S.A. is not responsible for any omissions or any errors in printing or translation.
- It is forbidden the total or partial reproduction of this Instruction Manual without prior written authorization from PIHERNZ COMUNICACIONES, S.A.

2.- CHARACTERISTICS:

- Hidden LED screen system.
- Up to 199 programmable channels.
- High quality reception.
- Anti-interference protection.
- Voice indications.
- Scan function.
- Acoustic lock.
- Anti-dust protection.

3.- UNPACKING AND CHECKING THE EQUIPMENT:

Carefully unpack the transceiver. We recommend that you identify the items listed in the following table before discarding the packaging. If any items are missing or damaged, contact with your salesperson immediately.

Supplied accessories:

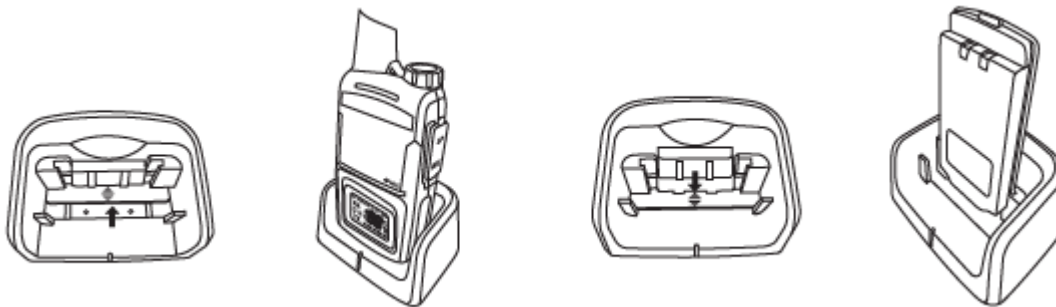
Item	Quantity
PMR-446 Transceiver	1
Li-Ion battery packs (1000 mAh).	1
Belt clip.	1
AC/DC adapter.	1
Cable.	1
Desktop battery charger.	1
Hand strap.	1
Instruction Manual.	1

4.- GETTING STARTED:

4.1.- CHARGING THE BATTERY PACK:

The battery pack is not fully charged at the factory, charge it before use. Initially charging the battery pack after purchasing the transceiver or extended storage (greater than 2 months). The battery pack does not reach full capacity until the charging/discharging cycle is repeated two or three times.

Charging procedure:



Cautions:

- Don't recharge the battery pack if it is fully charged; this procedure will shorten its life and may be damaged.
- After charging the battery pack, remove it from the desktop battery charger. Charging the battery pack for more than 5 days may reduce the battery pack life due to overcharging.

Notes:

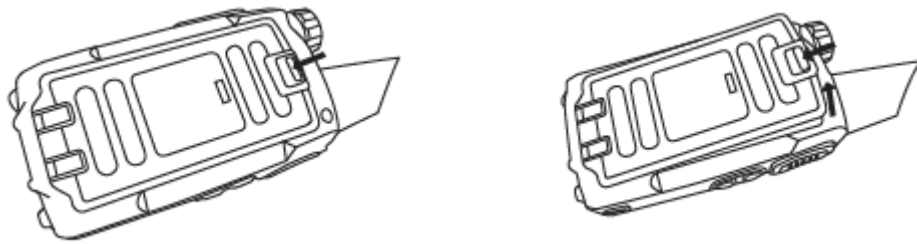
- Charge the battery pack in an environment with a temperature range between 5°C and 40°C. Charging outside this range may not fully charge the battery.
- Switch off the transceiver if you are charging the battery pack with the battery

installed in the transceiver. Using the transceiver while charging may interfere with the correct charging.

- The battery pack life is over when it's operating time decreases even though it is fully and correctly charged. In this case, replace the battery pack with a new one with the same characteristics as that supplied with the transceiver.

4.2.- INSTALLING / REMOVING THE BATTERY PACK:

The duration of the battery charge is approximately 8 hours. This time has been calculated with a duty cycle of 5-5-90 % (TX-RX-Standby).



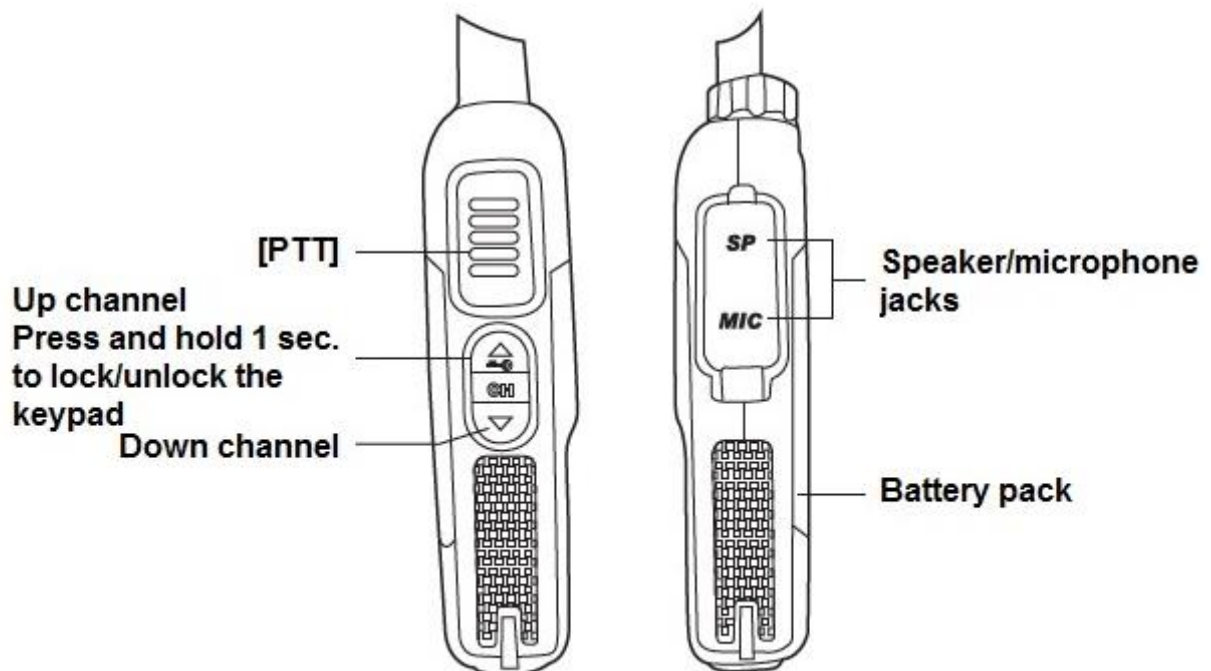
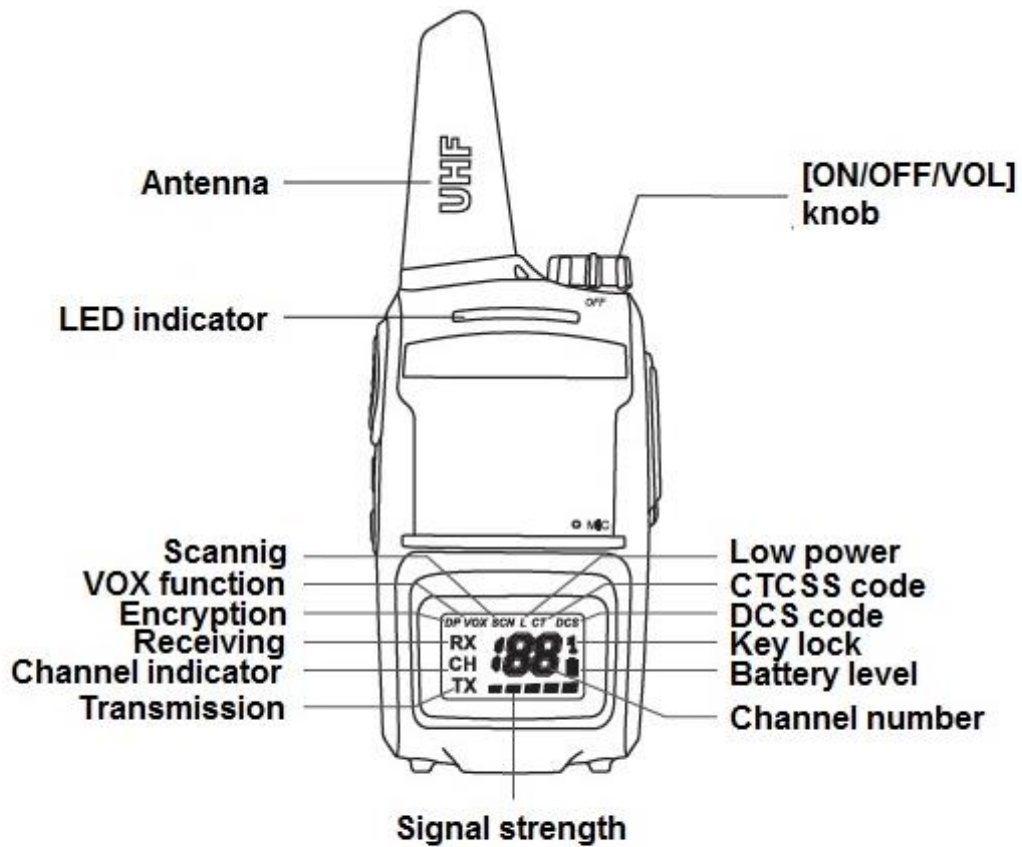
Cautions:

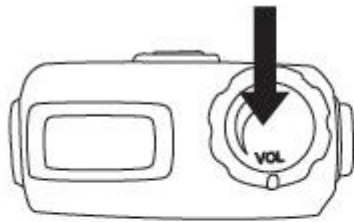
- Do not short the battery terminals and do not dispose by fire.
- Never attempt to disassemble the battery pack.

4.3.- INSTALLING THE BELT CLIP:

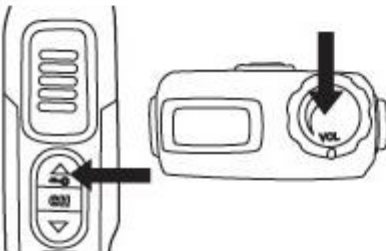


5.- GETTING ACQUAINTED:

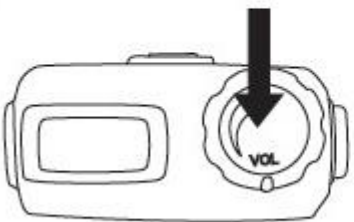


6.- OPERATION:

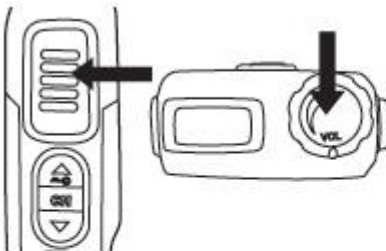
Switch ON the transceiver by turning the [ON/OFF/VOL] knob clockwise. A "beep" sound".



Adjust the volume by pressing and holding the monitor key, then rotating the [VOL] control.



Select the desired channel. When you receive an appropriate signal, you will hear the audio from the speaker.



To make a call, press and hold the [PTT] switch, then speak into the microphone using your normal speaking voice. Hold the microphone approximately 3 to 4 cm from your mouth.

Release the [PTT] switch to receive.

7.- AUXILIARY FUNCTIONS:

7.1.- TIME-OUT TIMER:

This function prevents any single user from transmitting on a channel for an extended period of time.

If you continuously transmit for 10 minutes, you will hear a warning tone and the transceiver will stop the transmission. To disable the tone, release the [PTT]. You can press [PTT] again to resume transmission.

7.2.- BATTERY SAVE:

The battery save function decreases the amount of power used when a signal is not being received or no operation is performed on the transceiver. If no signal is received on the channel and no operation is performed on the transceiver within 10 seconds, the battery save function will be enabling. The function will be automatically disabled when a signal is received or an operation is performed into transceiver.

7.3.- LOW BATTERY WARNING:

The low battery warning alerts you when the battery needs to be recharged.

If when transmitting, the battery power goes below a predetermined value, the status LED will blink red. When a tone is sounds, the transceiver stops transmitting. In this case, recharge the battery pack or replace it with a fully charged one.

7.4.- MONITOR (SQUELCH):

When no signal is received, the “squench” automatically mutes the speaker so you will not hear background noise. To manually disable the “squench”, press and hold the [MONITOR] key. This is useful when you want to adjust the volume level or when you need to hear a weak signal.

Note:

- The LED indicator lights green while the “squench” key is pressed.

7.5.- ANALOGICAL CODES (QT) AND DIGITAL CODES (DQT):

In some channels you can program QT/DQT tones. A QT/QDQT tone is a subaudible tone that allows you to ignore (not hear) the calls of other users who are using same channel. When you receive a signal that has a different tone than the one programmed on your transceiver, you will not hear the communication. In the same way, only users who have programmed the same tone as their transceiver can hear to their communication.

Note:

- Although using channels set up with QT/DQT tones prevents you from listening to unwanted calls, it does not mean that your calls are totally private.
- Consult with your salesperson for the programming of analogical (QT) and digital (DQT) codes.

8.- TECHNICAL SPECIFICATIONS:

- Frequency range: 446.00625 MHz – 446.09375 MHz (TX/RX).
- Channels number: 199.
- Modulation type: FM.
- Antenna: Incorporated.
- Transmission power: 0.5 W.
- Maximum deviation: $\leq \pm 5$ kHz.
- Spurious emissions: < -60 dB.
- Sensitivity: $< 0.16 \mu\text{V}$ (12 dB SINAD).
- Intermodulation: ≥ 55 dB.
- Power supply: 3.7 V Li-Ion battery pack.
- Current: ≤ 1 A.
- Dimensions (mm): 96 (H) x 55 (W) x 22 (D).