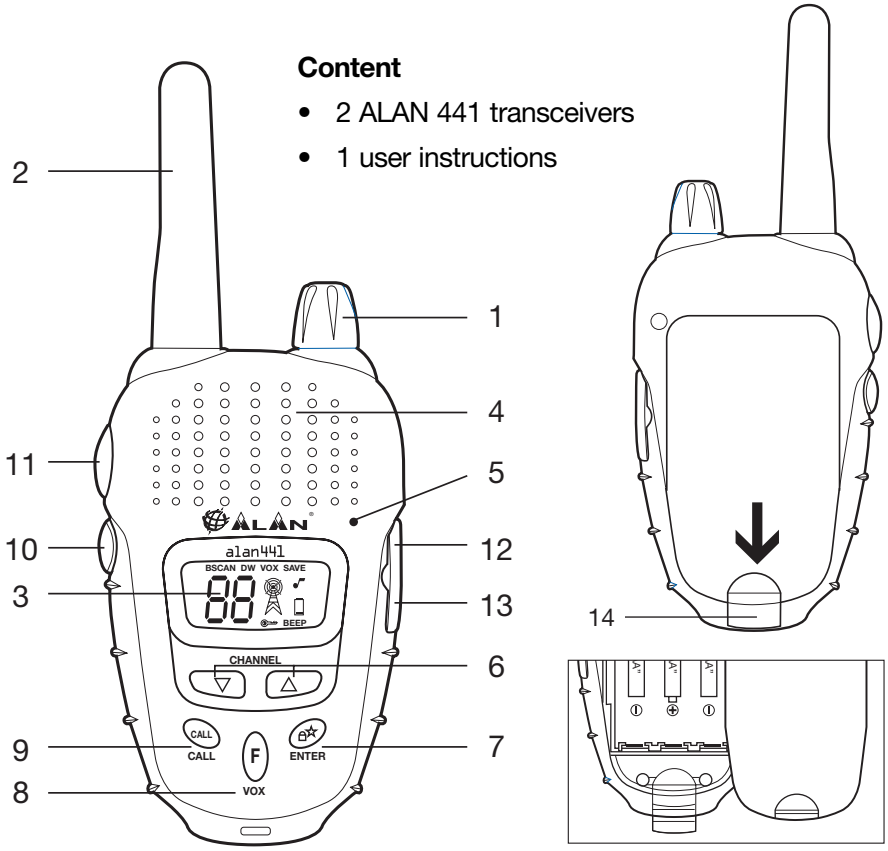
The World in Communication

alan441

Content

- 2 ALAN 441 transceivers
- 1 user instructions



8 CHANNELS PMR446 TRANSCEIVER

Congratulations on your purchase!
ALAN 441 is a new generation PMR 446 transceiver which may be used, without license, in all the countries in which Pan-European PMR446 frequencies are authorised (446.00625 – 446.09375 MHz). Please consult the "Restrictions on the use" charts for information regarding country specific limitations.

Main features:

• Freq. 446.00625 ÷ 446.09375 • Channel spacing: 12.5 KHz • 8 channels • Power 500 mW ERP • Coverage up to 4÷5 km • VOX adjustable in 3 levels • Batteries: AAA type, rechargeable or alkaline • Alphanumeric backlit LCD Display • Battery life up to 35 hours (alkaline type) • Operating temperature –20° +55° • Weight 78 gr • Size 54x87x34 mm • Jack MIC CHG [13]: 2 pins for audio accessories and wall charger

Specifications are subject to change without notice.

To open the battery compartment, hold the unit face down and unhook the battery holder in the lower part of the radio; gently slide the cover towards the bottom of the radio. ALAN 441 accepts 3 x AAA alkaline or rechargeable batteries.

Display lighting: When you press [7], the display lights up for 10 seconds approx.

**** Coverage**

The maximum range is obtained during use in an open space. The only limitation to maximum possible range are environmental factors such as blockage caused by trees, buildings, or other obstructions. Inside a car or a metallic constructions, the range can be reduced.

And now, let's communicate!!

1 Turning on

Rotate the ON/OFFVOLUME [1] knob clockwise to turn the unit on. The radio beeps 4 successive times with different tones (may be inhibited). The LCD [3] displays a "self-test" message for 1 second, it will then indicate channel 1.

2 Volume adjustment

To adjust the volume level, hold "MON" [10] button down while rotating the ON-OFF/VOLUME [1] knob until you reach a comfortable listening level. Rotate it clockwise to increase and anti-clockwise to decrease the volume. Release the "MON" [10] button. Now your Alan 441 is ready to receive and transmit.

3 Channel selection

Select the desired channel and relevant frequency by the UP/DOWN [6] controls.

CHANNEL	FREQUENCY (MHz)	CHANNEL	FREQUENCY (MHz)
01	446.00625	05	446.05625
02	446.01875	06	446.06875
03	446.03125	07	446.08125
04	446.04375	08	446.09375

4 Transmission

For maximum speech clarity, hold the radio 4 to 10 cm away from your mouth, keep the PTT button [11] pressed and speak into the unit.

During transmission the display shows  . When the Roger beep function is enabled, the radio beeps to confirm to other users that your transmission has finished (see paragraph 15 "Roger Beep" to enable the function).

5 To receive

Simply release the PTT [11] button (the icon  is displayed). When you receive a signal,  is displayed.

6 Background noise reduction (Autosquelch)

In your ALAN 441 the background noise reduction device (squelch) is activated by default. Hold MON [10] button down to deactivate it. In this way, even low level signals can be received.

7 Automatic power save

ALAN 441 is supplied with an **automatic current economy circuit**. If the transceiver receives no signal for 7 se-

conds or longer the “power save function” automatically activates. (“SAVE” blinks on the display). **The battery life may increase by up to 50 %.**

When the batteries are in need of charging, icon will be displayed [3]: it is necessary to replace the alkaline batteries or recharge the Ni-Cd/NiMH ones.

8 Jack MIC/CHG

External charger jack [13]. We recommend use of the appropriate charger only.

Attention: alkaline batteries cannot be recharged.

9 Keypad lock

Hold [7] button down for longer than 3 seconds: the display will show to confirm activation. PTT [11], MON [10] and [9] will still be active. Repeat the same procedure to unlock the keypad.

10 Hands-free transmission mode (VOX) / Baby-sitter

ALAN 441 has built-in VOX capability (automatic transmission) settable in 3 positions.

This feature is particularly useful to keep a check of the baby at a distance as you can automatically listen to all sounds or noises close to the transmitter **(Baby-sitter).**

11 VOX Activation

Hold the [8]button down for longer than 2 secs.

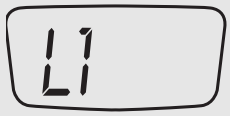
“VOX” will appear on the display to confirm the function is enabled.

Speak into the microphone [5]: transmission will start automatically.

12 VOX sensitivity setting

1) Set the ON/OFF-VOLUME [1] control to OFF position by rotating the knob anti-clockwise.

2) Hold the [9] button down while turning the radio on.
   The display [3] shows:



3) Select the desired VOX level (L1, L2 , L3) by means of the / [6] buttons.
   The VOX sensitivity is now adjusted.

VOX can be adjusted in 3 positions:

- **L1: high sensitivity** (normal voice with no background noise);
- **L2: medium sensitivity** (for slightly noisier areas);
- **L3: low sensitivity** (useful in very noisy areas or if you talk loudly).

4) Press [7] to confirm.

13 VOX delay adjustment

This option keeps the radio in transmit mode after you stop talking. This delay can be adjusted (if it is set too short

it may cause transmission to stop between some words) and allows you to speak at a steady rate with no loss of transmission.

To enable this feature, press once the (F) [8] button.
On the display:



Use again the ▼ / ▲ [6] keys to select the desired delay:

• d1: short delay • d2: medium delay • d3: long delay

Press the [7] or turn the unit off to store your setting.

14 To disable the VOX mode

press the (F) [8] button on the front of the radio for longer than 2 secs.

Other functions

15 ROGER BEEP: end transmission tone

When PTT [11] is released the radio will beep to confirm to other users that your transmission has finished. This feature is disabled by default.

To enable it, follow these steps:

1. Press repeatedly the (F) [8] key until the LCD shows:
   ♪ : BLINKING.



2. Select “oN” using the “UP” key [6].
3. Press [7] for confirmation. ♪ icon appears on the display [3].

16 Disabling the Keypad/switching on beeps

1. Press repeatedly the (F) [8] key until the LCD shows “oN” and “BEEP” blinks.
2. Select “oF” by means of ▼ / ▲ [6] keys.
3. Push [7] to store the setting; “BEEP” disappears.

17 SCAN and B.SCAN

The **SCAN** mode monitors the **busy channels**. It is used to check the traffic radio on the 8 channels before transmitting and allows the unit to stop on a channel that someone is talking on. When the radio stops on a busy channel, the scan will resume after about 5 seconds.

To enable SCAN:

1. Press (F) [8] key . “SCAN” blinks on the display.
2. Hold ▼ or ▲ [6] controls down to activate scan.
3. **To stop the SCAN function,** push PTT [11], or ⌂☆ [7] or CALL [9].

The **B.SCAN** allows the radio to stop on the **channels not in use.** It monitors periodically, for 5 secs only, the channels not in use (without carrier).

To activate B.SCAN:

1. Press (F) [8] until “B.SCAN “ flashes on the display.
2. Hold down ▼ or ▲ [6] to start the scanning mode.
3. **To stop the B.SCAN** function, push PTT [11], or ⌂☆ [7] or CALL [9].

18 DW (Dual Watch).

This feature allows you to scan 2 channels of your choice. It is useful when you want to keep track of two other people.

To enable it:

1. Turn on the radio.
2. Select by ▼/▲ [6] keys the first channel you want to monitor.
3. Press repeatedly F [8] button until ”DW” blinks on the display.
4. Select the second channel to be scanned by ▼/▲ [6] controls.

Now the radio begins scanning between these 2 channels until activity is heard on either channel. The scanning restarts when the carrier disappears.

To stop Dual Watch, press PTT [11], or ⌂☆ [7] or CALL [9] keys.

19 Reset

In case your ALAN 441 does not work properly or you want to cancel all the user settings, it is necessary to hold (F) [8] button down for 2 seconds while switching the unit on.

With this procedure, all the settings made by the constructor are restored.

CHART “A” DERIVED FROM ERC/DEC (98) 25-26-27
RESTRICTIONS TO THE USE

COUNTRY	PMR446 introduced	Restrictions from ERC Decisions and other comments
AUSTRIA	Yes	Hobby use excluded
BELGIUM	Yes	Individual licence is required
DENMARK	Yes	Free Use
FINLAND	Yes	Free Use
FRANCE	Yes	Not allowed use ch 1 (446.00625 MHz) and ch 2 (446.01875 MHz)
GERMANY	Yes	Free Use
GREECE	No	Not allowed
ICELAND	Yes	Free Use
IRELAND	Yes	CTCSS or DCS Tone Control mandatory! Free circulation
ITALY	No	Not Allowed
LUXEMBOURG	Yes	Individual licence is required
NETHERLANDS	Yes	Free Use
NORWAY	No	Not allowed
PORTUGAL	Yes	Free Use
SPAIN	Yes	Free Use
SWEDEN	Yes	Free Use
SWITZERLAND	Yes	Free Use
TURKEY	Yes	Individual licence required (but licence exemption is being considered). Test Reports recognised.
UNITED KINGDOM	Yes	Free Use