ALAN
The World in Communication

ALAN 777
PMR 446 Radio Set
User manual

www.alan-germany.de

ALAN 777
8 CHANNEL PMR446 + 69 CHANNEL LPD TRANSCEIVER

The all new **ALAN 777** represents the very latest and most advanced technology currently available on the PMR446 and LPD market.
With its stylish lines and modern design, the ALAN 777 is a real gem of a radio!
The multitude of features such as VOX (hands free communication) offered on this radio are only a fingertip away thanks to its easy to use controls.
Credit card sized, **extra slim**, light weight and ultra compact design: all mean that this radio is ideal for use in any application, no matter where you are!
The ALAN 777 incorporates all of the very latest technical innovations that you might normally expect to see on a mobile phone such as a Lithium-Ion long life battery, a **blue backlit LCD display** and **Vibracall** (Vibrating call alert).
Despite its small size, the ALAN 777 is big on features and offers a real alternative to other forms of communication over short to medium ranges and has the added bonus of being completely **free to operate**!
As this radio operates on the PMR446 frequency, you can use it all over Europe.
However we suggest that you refer to the "Restrictions on the use" charts.

Main features:

- Freq. 446.00625 ÷ 446.09375MHz (PMR); 433.075 - 434.775MHz (LPD)
- Channel spacing: 12.5 KHz (PMR); 25 KHz (LPD)
- 8 channels (PMR); 69 channels (LPD)
- Power 500 mW ERP (PMR); 10mW ERP (LPD)
- Coverage up to 4÷5 km **
- Battery pack: LI-ION type 3.7 V - 720 mA/h
- Alphanumeric backlit LCD Display
- VOX (hands-free transmission)
- 38 CTCSS tones
- Battery life up to 21 hours (LI-ION battery pack 3.7 V - 720 mA/h)
- Operating temperature from –20° to +55°
- Dual Watch
- Weight 58 gr (w/o battery pack)
- Size 86x19x42mm
- Jack: for audio accessories: 1 pin, 2,5mm (SPK MIC) [8] , combined with jack for wall charger (CHG) [8]

Specifications are subject to change without notice.

Completing the Radio
Install the Lithium Battery Pack
The radio comes with the Lithium Ion Battery separately packed.
Before first use, You should open the battery compartment, insert the battery and recharge it for some hours.
Please hold the unit face down, unscrew the screw fixing the belt clip and slide the cover towards the bottom of the radio. Then, insert the battery pack with the description text up (contacts show to bottom side). Please observe the safety precautions for all kind of Lithium batteries printed on the batteries. Take care that the battery contacts are never touched with any metal tools and never short circuited. Never place the battery with the contact side on a metallic surface!

Charging battery: Jack CHG [2]
There are 2 ways to charge the battery. The external charger jack CHG [2] is combined with the MIC Earphone socket (2.5 mm stereo). Insert the charger plug into the CHG jack [2]. It is important that You use only the recommended charger and no other charging equipment. Any not specified power adaptor or wall charger may be dangerous and can cause even fire or explosion risk of the lithium battery.

You may also use the double stand charger to recharge the battery. Just insert the radio into stand charger and connect one of the charging cables of the 230 V wall adaptor to the rear side of the stand charger.

Completely discharged batteries need around 10-14 hours for full charging. During charge the battery icon will blink. After full charging the charging current will automatically switch off. We do not recommend to let the radio switched on during charging. In stand charger receiving is possible parallel to charging, but it will cause a longer charging time.

** Coverage (referred to PMR frequency band)
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.

Content
• 2 ALAN 777 transceivers
• 2 belt clips
• 2 carrying straps
• 1 double desktop charger
• 1 wall charger with double jack
• instructions sheet

Please check the accessories and contact Your distributor if something should be missing

LET'S COMMUNICATE!

To turn radio on/off

Hold the (**MODE)** [4] button down for 3 seconds. The radio beeps 3 times with different tones (beeps may be inhibited). The LCD [1] displays a "self-test" message for 1 second, it will then show the last channel selected.
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Display illumination

Press one of these buttons **(MODE** or **up / down)** to activate display illumination for approximately 5 seconds.

Keypad lock

Press and hold the **SCAN [3]** button for longer than 3 seconds. The key icon is displayed for 3 seconds to confirm the lock has been activated. **PTT** button will still be active.
Repeat the same procedure to unlock the keypad.

Volume adjustment

To adjust the volume level, push **UP/DOWN**[7] buttons until the required level is obtained.

Channel selection

Press the **MODE [4]** button once and then the **UP [6]/DOWN** [7] controls to select one of the 8 channels. To confirm the selection, push **PTT [7]** or wait for approximately 5 seconds.

Attention!

- PMR446 channels: P1, P2, ecc.
- LPD channels: 1,2,3, ecc.

PMR 446 channel	Frequency (MHz)
P1	446.00625
P2	446.01875
P3	446.03125
P4	446.04375
P5	446.05625
P6	446.06875
P7	446.08125
P8	446.09375

LPD channel	Frequency (MHz)	LPD channel	Frequency (MHz)
1	433.0750	36	433.9500
2	433.1000	37	433.9750
3	433.1250	38	433.0000
4	433.1500	39	433.0250
5	433.1750	40	433.0500
6	433.2000	41	434.0750
7	433.2250	42	434.1000
8	433.2500	43	434.1250
9	433.2750	44	434.1500
10	433.3000	45	434.1750
11	433.3250	46	434.2000
12	433.3500	47	434.2250
13	433.3750	48	434.2500
14	433.4000	49	434.2750
15	433.4250	50	434.3000
16	433.4500	51	434.3250
17	433.4750	52	434.3500
18	433.5000	53	434.3750
19	433.5250	54	434.4000
20	433.5500	55	434.4250
21	433.5750	56	434.4500
22	433.6000	57	434.4750
23	433.6250	58	434.5000
24	433.6500	59	434.5250
25	433.6750	60	434.5500
26	433.7000	61	434.5750
27	433.7250	62	434.6000
28	433.7500	63	434.6250
29	433.7750	64	434.6500
30	433.8000	65	434.6750
31	433.8250	66	434.7000
32	433.8500	67	434.7250
33	433.8750	68	434.7500
34	433.9000	69	434.7750
35	433.9250		

Transmission
For maximum speech clarity, hold the radio 5 to 10 cm away from your mouth, keep the **PTT button [8]** pressed and speak into the unit. During transmission the display shows *TX*.
When the PTT **[8]** is released, the radio beeps to confirm to other users that your transmission has finished (This function is disabled by default, to enable it see paragraph "Roger Beep").

Reception
Simply release the **PTT [8]** button. When you receive a signal, *RX* is displayed.

Background noise reduction (Squelch).
In your ALAN 777 the background noise reduction device (squelch) is activated by default.

Automatic power save
ALAN 777 is supplied with an **automatic current economy circuit**. If the transceiver receives no signal for 7 seconds or longer the "power save function" automatically activates. **This may increase the battery life by up to 50 %.**

When the battery pack needs recharging, the **battery icon** will be displayed [1]: it is necessary to connect the wall charger to the charging jack or to use the stand charger in connection with the wall charger.

Other key Functions

VOX: hands-free transmission

VOX function activation
Press the **MODE** [4] key three times. The display shows "VOX" blinking at the top left, while on the right of the channel number, "of" appears. Select one of the two levels by means of **UP/DOWN** [7] buttons and push the **PTT [8]** key**,** or simply wait 5 seconds for confirmation.
Speak into the microphone [6] or use one amongst the many compatible accessories: the **transmission** is automatically activated.

VOX deactivation
Press the **MODE** [4] key again. The display shows "VOX" blinking at the top left, while on the right of the channel number, the current sensitivity level will appear. Select "off" using the **UP/DOWN** [2] buttons and push the **PTT [8]** key**,** or simply wait 5 seconds for confirmation.

ROGER BEEP: end transmission tone
When **PTT** [8] 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 the **MODE [4]** button 6 times until the LCD shows (**DISEGNO CON SCRITTA "rb oF")**.
2. Select "oN" by using the **UP"/DOWN** buttons [7].
3. Press **PTT** [8] key or **MODE [4]** button for confirmation.
4. Roger Beep is now activated.

SCAN FUNCTION
The **SCAN** mode monitors the **busy channels.**
It is used to check speech traffic on the channels before transmitting and allows the unit to stop on a channel that someone is talking on. In case of undesired

conversation, you can skip this channel by pushing the " ▲ " / " ▼ " buttons.

To enable SCAN:
1. Press **SCAN** [3] key: channels will start scanning on the display [1].
2. Press **UP** or **DOWN** [7] buttons to skip the channels with a strong background noise or undesired conversation.

Note:
If the radio detects during scan mode a signal which has been coded by CTCSS, the display will detect this CTCSS code and show the number on the display. If You want to use this channel and want to come into contact with that station, You should first select the displayed CTCSS number for Your own transmission (see next chapter)

Transmission during the SCAN function
Pressing **PTT [8]**, the radio will transmit on the channel where the scan started or on the busy channel.

To deactivate this function, push the **SCAN** [3] key again.

CTCSS-sub-tone setting

ALAN 777 can receive in two modes:

open traffic:	in this case you will hear any communication transmitted on the selected channel.
group mode CTCSS:	CTCSS tones are access keys that allow you to receive only messages coming from parties using the same channel and code. The speaker will remain muted until the correct CTCSS tone is received.

To activate 1 of 38 different CTCSS tones in RX and TX follow these steps:
- Turn on the radio.
- Select a channel with the **UP/DOWN [7]** buttons.
- Press twice the **MODE [3]** button until the display shows the selected channel with the flashing CTCSS code segment on the right ("of" = default condition).
- Select with the **UP/DOWN [7]** buttons the desired CTCSS-Code.
- To confirm the setting, press the **PTT** [8] key or wait for approximately 5 seconds.

To deactivate CTCSS tones
If you want to operate without any CTCSS code:

- Press twice the **MODE** [4] key until the display shows the desired channel and the CTCSS tone blinking on the right.
- Select "*of*" with **UP/DOWN [7]** buttons.

HI AND LOW POWER

To extend the battery life, you can select the low power mode.

To activate the low power:
- turn on the unit
- press the **MODE** [4] button 4 times, until the display shows "Pr hi".
- select the low power by pushing the "▲" o "▼"[7] buttons.
- confirm by pushing the **PTT [8]** or simply wait 5 seconds.

With this procedure, the power is reduced of 10 times approx.

KEYPAD BEEP

To deactivate the keypad beep at the pressure of any key, follow these steps:

- Turn on your ALAN 777.
- press the **MODE** [4] button 5 times, until the display shows "bP on".
- Push "▲" o "▼"[7] until "bP of" appears on the display.
- confirm by pushing the **PTT [8]** or simply wait 5 seconds.

With this procedure, you won't hear any beep at the pressure of any button.

CALL TONE

ALAN 777 can send 3 different call tones. To send this audio signal to other users, press rapidly the **PTT [8]** key twice.

To select the call tones:

- turn on the transceiver
- push **MODE** [4] 7 times, until the display shows "CA 1".
- push "▲" or "▼"[7]: you will hear the 3 pre-set melodies.
- confirm by pushing the **PTT [8]** key or wait 5 seconds.

Now, each time your ALAN 777 will send out a tone call, it will beep with the selected melody. To disable this feature, set "of" on the display.

VibraCall

ALAN 777 is equipped with the function "VibraCall", which provides a silent alert for incoming tone calls.
To activate it, follow these steps:

1. turn on the unit.

2. press the **MODE** [4 key 8 times, until the display shows the VibraCall Icon
3. pushing "▲" or "▼": you will enable/disable this feature.
4. confirm by pushing the **PTT [8]** key or wait 5 seconds.

Note: A VibraCall Alarm can only be received by another ALAN 777, and not by any other radio model. Also in case that the distant party should have selected one of the 3 melodies for calling, such alarms will be detected as Vibra Call, if You should have selected Vibra Call in Your receiving radio.

DUAL WATCH:

The radio allows You to listen on two channels, which may have priority for You. Please select first Your priority channel.

- turn on the unit.
- press the **MODE** [4 key 9 times, until the display shows "*RX TX*"
- pushing "▲" or "▼": you will enable/disable this feature or select one of the channels as priority channel.
- confirm by pushing PTT

Now You can select any other channel as Your second channel.
Your radio will always switch automatically between the selected priority channel and the other channel, which You have just selected. If a signal on the priority channel will be detected, You will hear this, and later You will be able to listen again to the other channel.

European 2 years warranty

The distributor, dealer or retail shop warrants to the original retail purchaser of this product that should this product or any part of it, under normal use and conditions, be proven defective in material or workmanship within 2 years from the date of original purchase, such defect(s) will be repaired or replaced with new or reconditioned product (at the company's option) without charge for parts and repair labor. To obtain repair or replacement within the terms of this warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), to the distributor, dealer or his authorized repair center.

The warranty does not apply to any product or part there of which, in the opinion of the company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). The warranty does not apply to accessory parts or problems caused through not authorized or not recommended accessories like of the units like batteries, external power supplies and over voltage caused through external power supplies, external audio accessories, broken swivel belt clips, broken or damaged acrylic glass windows and cabinet parts.

In case of any problem, please contact the dealer or person where you have purchased your unit.

©ALAN Electronics GmbH
www.alan-germany.com
Daimlerstr. 1 k
D- 63303 Dreieich

Service Hotline

Phone   +49) (0)6103-9481-30
Fax   +49) (0)6103-9481-60
e-mail: service@alan-germany.de
service download: www.hobbyradio.de