stabo
FÜR GUTE VERBINDUNG

Art.-Nr. 20080

stabo freecomm 80

PMR 446 radio handheld

Owner's Manual

**Please read this manual carefully and completely to make yourself familiar with the various functions of your radio set. Make sure to observe the safety instructions to avoid any danger for you and other persons as well as damage to the radio set. Keep the operating instructions in a safe place. Be sure to hand over the instructions in case you lend out or sell the radio set.
We disclaim any liability for damage and consequential damage caused by no observance of these instructions.**

Important
Prior to using the device for the first time, carefully and completely read through all operating instructions. Keep these operating instructions in a safe place; it contains important hints for operating the device.

There is obligatory registration in IT: Italian residents have to pay a nonrecurring charge upon registration of the radio set! (Tourists may use their radio sets free of charge for the duration of their stay in Italy.)

For information of national regulations concerning the use of radio sets on travels abroad, please contact the embassies/consulates of the corresponding countries or you may get the information from the corresponding telecoms and postal regulator.

PMR 446-radio sets transmit/receive on 8 specified channels (446 MHz). Within the radius of reach you can communicate via an optional number of radio sets, however, only one person can talk and the other/s listen. Uncoded voice radio links are not confidential!

The range is a reason of many factors. Apart from the statutory transmitting power other factors are relevant: e.g. the position of the antenna (it should be hold at right angle and send freely), the energy supply (fully charged battery packs fully exploit the reach) and the environment where you transmit. Each "obstacle" (hills, buildings, trees) reduces the range, some materials (e.g. reinforced concrete, pieces of rock) give rise for considerable screening effects. Under optimum conditions (e.g. during sailing or paragliding) PMR 446 radio sets have a transmitting-range of ard.10 km. In housing areas, a range of 1 - 2 km is realistic, in strongly screened environment (e.g. in the mountains or inside buildings made of reinforced concrete) the distance may drop to a few hundred meters.

Scope of delivery
2 PMR 446 hand voice radio sets
2 Belt clips
2 carrying straps
1 Owner's manual DE/EN

Symbols in the display

⬛ Transmission indicator		⬛ Reception indicator	
⬛ Scanning activated		⬛ CTCSS-/DCS number	
CT CTCSS function is activated		**DCS** DCS function is activated	
⬛ Battery level indication		⬛ Key lock activated	
VOX VOX activated		⬛ Volume indicator	
⬛ Channel number display (1-8)			

Safety warnings

Persons with cardiac pacemakers are generally advised not to use radio sets! No transmission in immediate proximity to persons with cardiac pacemakers.

Do not touch the antenna during the transmission, do not hold it close to your body, especially not close to the face or the eyes. When using a headset be sure not to turn the volume of your radio set too high: otherwise the noise might damage your hearing.

Do not operate the radio sets neither in an aircraft nor in a hospital or in comparable facilities. Switch off the radio set, if you are in explosive-prone environment (e.g. petrol station). Make sure not to change the battery in those places.

When using the radio set in a vehicle be sure to comply with the national regulations! In some countries it is forbidden to use a radio set while driving a vehicle! In a vehicle equipped with an airbag you must not operate or store the radio set neither directly above the airbag nor in the inflation zone of the airbag.

Never open the housing of a radio set or its accessories and do not carry out any modification. Ensure that any repair is carried out by qualified personnel. Modifications of or interventions in the radio set automatically lead to an expiry of the type approval and it voids all warranty claims.

Prevent small children or babies from playing with the radio, accessories or packaging materials!

If you state the odor emissions or the formation of smoke, immediately switch off the radio set and remove the batteries.

Do not operate the radio set, if you detect any damage of the housing or the antenna. Contact a qualified workshop.

Protect your radio sets and the accessories against strong vibrations and extreme temperatures (avoid operating temperatures below -5°C or above +40°C). Do not expose the radio set to direct sunlight for a prolonged period (e.g. shelf in the vehicle).
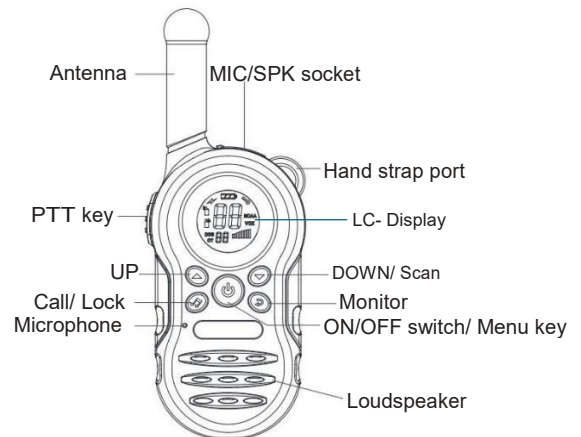
Never throw the batteries into fire! Never short-circuit the battery contacts!

Important information/Intended use

stabo freecomm 80 is a PMR 446 handheld radio set for voice radio over short distances.
The radio standard PMR 446 is assigned in AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, NL, NO, PL, PT, SI (free of charge and without any registration).

Control elements and connections

Antenna — MIC/SPK socket

Hand strap port

PTT key — — LC- Display

UP — DOWN/ Scan

Call/ Lock — Monitor

Microphone — ON/OFF switch/ Menu key

Loudspeaker

Preparations for operation

Removing/attaching belt clip
For removing, push the safety catch on top of the belt clip away from the housing and slide the belt clip upwards.

Place the grooves of the belt clip on the guide rails on the upper part of the housing and slide the belt clip downwards until the safety catch snaps in.

Inserting/replacing batteries
Press the battery cover down in the direction of the arrow and remove the battery cover. Insert 4x 1.5 V AAA alkaline batteries into the battery compartment, paying attention to the + and – markings. Place the battery cover on the back wall of the housing and push it up until the battery cover clicks into place.

⭕ **Note:** When using alkaline batteries, pay attention to the correct polarity (plus/minus)! Otherwise damage to the device could occur! If you do not use the devices for a longer period of time, you should remove the batteries!

Functions

Note: If a setting is not activated within 8 seconds the radio set will automatically adopt the last setting. A confirmation tone sounds.

Switching on/off the radio set
The device can be switched on/off by pressing the ⏻-key. When switched on, all display symbols are shown briefly, a triple confirmation tone sounds and the last channel set is displayed.
When switched off, a double confirmation tone sounds.

Adjusting the volume
Eight volume levels are available.
Press the -▲/▼-key to adjust the volume. The selected volume level is indicated. Reaching the lowest/highest level is accompanied by a beep tone.

Selecting the channel
Eight channels are available.
Press the ⏻/menu-key 1x, the channel number flashes. Select a free channel with the -▲/▼-key. Confirm with the PTT-key

Note: Always adjust both radio sets to the same channel!

Receiving
When switched on, the radio is ready to receive. When the radio receives a signal, the RX symbol appears on the display and the display lights up green.

Transmitting
Hold down the PTT-key and speak into the microphone at a distance of approx. 5 cm at a normal volume. The TX symbol appears on the display and the display lights up red.
When you have finished your message, release the PTT-key.

Pilot tone procedures CTCSS and DCS
The radio has two pilot tone procedures: CTCSS with 53 different tones and DCS with 104 digital codes.

Activate pilot tone procedure
Press the ⏻/menu-key 2x, the word OF flashes on the display.
Press the ⚡-key to select the pilot tone procedure CT or DCS.
Use the -▲/▼-key to select the desired tone or code. Confirm with the PTT-key.

Deactivate pilot tone procedure
Press the ⏻/menu-key 2x, CT or DCS and the number flash on the display.
Use the -▲/▼-key to select OF. Confirm with the PTT-key.

Call tone
If you press the ⚡-key, a tone call will be sent out and will be received by your partner station. You can choose between 10 different call tone melodies.

Select call tone melody
Press the ⏻/menu-key 3x, CA is displayed and the call tone number is flashing. Use the -▲/▼-key to select a call tone melody. Confirm with the PTT-key.

Automatic scan
The automatic scan is used to quickly find active channels. It automatically scans all 8 channels and stops as soon as a signal is received. The automatic scan starts again where there is no more signal.

Activating/deactivating the channel scan
Press the ▼-key for 2 seconds, the search starts and the ⚡ symbol appears on the display. You can end the search by pressing the ▼- or PTT key. The ⚡ symbol disappears from the display

Monitor function
The automatic squelch can be bypassed such that you can also hear weak signals.

Activating/deactivating the monitor function
Press and hold the ⚡-key until noise can be heard. As long as you keep hold the ⚡-key the squelch is bypassed.

Battery management
The stabo freecomm 80 has a very low power consumption. If no signal is received, the electronic battery saving circuit is activated.

Battery replacement
If the batteries are exhausted, replace the batteries and ensure that you always replace all batteries.

🗑 Disposal instructions
Electrical and electronic devices do not belong into household waste! Dispose of defective/used devices at an appropriate collection point. You can obtain information about this from your local authorities. Used batteries do not belong in household waste! Please observe the national disposal regulations and dispose of used batteries (in a small plastic bag) at the appropriate collection points.

SIMPLIFIED EU DECLARATION OF CONFORMITY
Hereby, **stabo Elektronik GmbH** declares that the radio equipment type
stabo freecomm 80
is in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
https://stabo.de/fileadmin/DoC/DoC_stabo_freecomm_80.pdf

VOX function (voice-controlled transmission)
This function permits to send without activating the transmit key: Voices/noises which hit the microphone switch on the transmitter of the radio set. You can select between 3 sensitivity levels (level 1 = highest sensitivity).

Activating VOX
Press the ⏻/menu key 4 x, VOX appears in the display and OF flashes. Use the -▲/▼-key to select the desired sensitivity level. Confirm with the PTT-key. VOX appears on the display.

Deactivating VOX
Press the ⏻/menu key 4x, VOX appears in the display and 1, 2 or 3 flashes. Use the -▲/▼-key to select OF. Confirm with the PTT-key. VOX disappears from the display.

Activating/deactivating the key tone
Press the ⏻/menu key 5x. to appears on the display and OF flashes. Use the -▲/▼-key to select ON. Confirm with the PTT-key.
Press the ⏻/menu key 5x. to appears in the display and ON flashes. Use the -▲/▼-key to select OF. Confirm with the PTT-key.

Roger beep
When releasing the PTT key after transmission, a signal tone is automatically transmitted. This tone signals to your contact partner that your message is finished.

Activating/deactivating Roger Beep
Press the ⏻/menu key 6x. ro appears in the display and OF flashes. Use the -▲/▼-key to select ON. Confirm with the PTT-key.
Press the ⏻/menu key 6x. ro appears in the display and ON flashes. Use the -▲/▼-key to select OF. Confirm with the PTT-key.

Setting the display backlight
There are three settings for the display lighting: **00**: Off, **01**: permanently on, **02:** On for 10 seconds.
Press the ⏻/menu key 7x. bl appears in the display and 02 flashes. Use the -▲/▼-key to select one of the other 2 settings. Confirm with the PTT-key.

Key lock
As a protection against faulty operation you can lock the keyboard (with the exception of ⚡ - PTT- and ⏻-key).

Activating/deactivating the key lock
Press and hold the ⚡-key until a beep tone sounds and the symbol is 🔒 displayed.
For deactivating press and hold the ⚡-key again until a beep tone sounds and the 🔒 symbol disappears.

Technical data

Number of channels	8 (446.00625 - 446.09375 MHz)
Number of subchannels	53 CTCSS tones/ 104 DCS codes
Range	3-6 km
Output power	≤ 500 mW
Battery	4x AAA Alkaline
Dimensions (H x W x D) / Weight	55x150x32 mm / 83g

Herstellergarantie
Als Hersteller dieses Gerätes stabo freecomm 80 gewähren wir, stabo Elektronik GmbH, Münchewiese 16, 31137 Hildesheim/Deutschland eine selbstständige Garantie gegenüber dem Verbraucher auf alle bei uns gekauften Gegenstände nach Maßgabe der nachfolgenden Garantiebedingungen. Wir weisen ausdrücklich darauf hin, dass Ihre gesetzlichen Rechte auf Sachmangelbeseitigung hierdurch nicht eingeschränkt werden.
I. Die Garantiezeit beträgt zwei Jahre ab Kaufdatum. Die Garantie gilt ausschließlich auf dem Gebiet der Europäischen Union.
II. Während der Garantiezeit werden Geräte, die aufgrund von Material- und Fabrikationsfehlern Defekte aufweisen, repariert, alternativ ersetzt. Die Wahl der Reparatur oder des Ersatzes obliegt uns. Ausgetauschte Geräte oder Bauteile dieser gehen in unser Eigentum über. Garantieleistungen bewirken weder eine Verlängerung der Ursprungsgarantie; es wird auch keine neue Garantielauf-zeit in Gang gesetzt.
III. Garantieansprüche müssen unverzüglich nach Bekanntwerden unter Vorlage des Kaufbelegs innerhalb der Garantiezeit geltend gemacht werden.
IV. Garantieansprüche sind ausgeschlossen bei Schäden durch unsachgemäßen Gebrauch, der auch in Form eines missbräuchlichen Nutzens erfolgen kann
- Umwelteinflüsse, wie Überspannung, Feuchtigkeit, Hitze, Staub etc.,
- Nichtbeachtung der geltenden Sicherheitsvorkehrungen,
- Nichtbeachtung der Bedienungsanleitung,
- äußere Gewaltanwendung,
- eigenmächtige Eingriffe und eigenmächtige Reparaturversuche,
- Versand in nicht geeigneter Art und Weise, wie z. B. nicht geeignetem Verpackungsmaterial
- Verbrauchsmaterialien (Akkupacks, Batterien)
Hildesheim, im September 2024