



BASE CAMP446

Ricetrasmittitore PMR446 multiuso

Multi-task PMR446 transceiver



Cte international

The World in Communication

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MIDLAND BASE CAMP PMR446

A multi-task PMR446 transceiver

MIDLAND BASE CAMP is a PMR446 transceiver including the VHF MARINE BAND receiver and AM/FM radio. MIDLAND BASE CAMP as been designed for being a multi-task equipment, radio and transceiver, for communicating with other devices set to the same channel.

MIDLAND BASE CAMP is the ideal and daily time solution for all the outdoor activities, the free time and why not, also for emergency and safety situations. As a matter of fact, BASE CAMP has a built-in flashlight, and a built-in SOS Morse signal function, that allows the transceiver to send messages in code; moreover, the dynamo crank allows you to recharge the radio during a power outage or anytime away from a power source. Through the USB jack it is possible to recharge also other devices (mobile phone, iPod, mp3 players) by the dynamo crank, AC or DC Adapter.

Its small size allows the user to realize radio communications also on the go.

MIDLAND BASE CAMP is equipped also with a handheld microphone for an easy and practical use.

Main features:

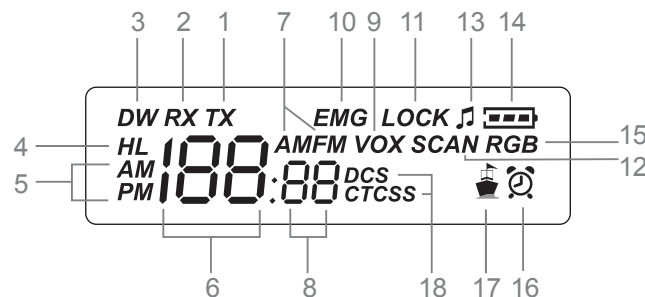
- PMR446 transceiver
- VHF MARINE BAND receiver
- Alarm clock/AM/FM radio included
- SOS morse signals
- Handheld microphone
- Flashlight
- Dynamo crank battery charge capability
- Recharge USB jack
- Supplied with a 6V NI-MH rechargeable battery pack
- Working with alkaline batteries
- 2 Pin accessories jack

DESCRIPTION

DISPLAY

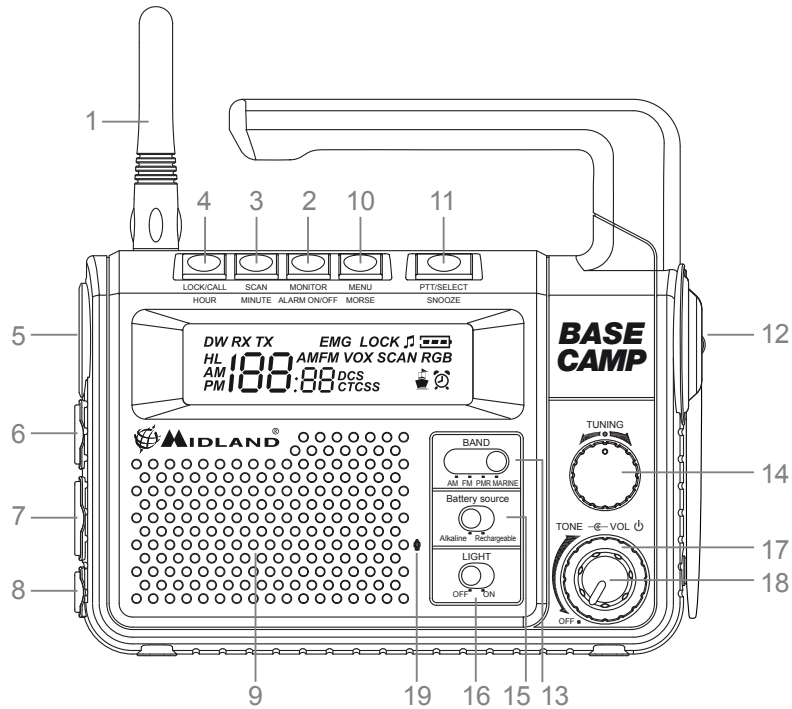
Your **MIDLAND BASE CAMP** keeps you constantly updated about its operational status through a Liquid Crystal Display (LCD).

The symbols and their corresponding parameters that may appear, according to the operational status of the device, are described as follows:



1. **(TX) TRANSMIT** - appears while you are transmitting a signal (PTT button pressed)
2. **(RX) RECEIVE** - means that the radio is receiving a signal.
3. **(DW) - DUAL WATCH** indicates the **DUAL WATCH** function is on.
4. **(H)High (L) Low- TRANSMIT POWER LEVEL** - indicates TX power setting (H&L) - only in **PMR BAND**.
5. **AM/PM** - indicates that the clock is set in **AM** or **PM**.
6. **CHANNEL NUMBER** - indicates the channel selected (P1-P8 **PMR**, 1-69 **LPD**, and 1-88 **MARINE**). It can also be used to display **AM/FM** receiver frequency and the clock setting.
7. **AM/FM** - indicates if the radio is in **AM** or **FM** receiving mode.
8. **PRIVACY CODE** - indicates the **CTCSS/DCS** privacy code selected by the user. It's also used to display the **AM/FM** receiver frequency and the clock setting.
9. **VOX** - indicates if **VOX** mode is active.
10. **EMG** - emergency channel selected in **MARINE BAND**.
11. **LOCK** - indicates that the key lock mode is on (except **BAND**, battery source, light switch and **MONITOR** button).
12. **SCAN** - indicates if the radio is in **SCAN** mode.
13. 🎵 - indicates that the key beep tone of the radio is on.
14. 🔋 - indicates the battery level.
15. (RGB)- **ROGER BEEP** - indicates that the **ROGER BEEP** tone is on.
16. 🕒 - indicates that the alarm clock is activated.
17. 🚤 - indicates that you are in **MARINE** mode.
18. CTCSS/DCS - indicates the selected **CTCSS/DCS** code.

DESCRIPTION OF THE CONTROLS



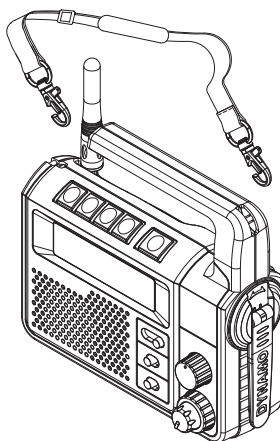
1. **ANTENNA**

2. **MONITOR-ALARM ON/OFF** button - pressing the button while **MIDLAND BASE CAMP** is on and set on **PMR** or **MARINE BAND**, you activate the **MONITOR** function. If this button is pressed when the radio is off, you can activate or de-activate the alarm clock.

3. **SCAN/MINUTE** button - pressing this button while **MIDLAND BASE CAMP** is tuned on **MARINE** or **PMR BAND**, you activate the **SCAN** mode. If **AM/FM** is set, pressing **SCAN/MINUTE** you select the saved frequency; if you press this button while the radio is off, you can change the minute of the clock.
4. **LOCK/CALL/HOUR** button - pressing this button for about 5 seconds while the radio is in **MARINE** or **PMR** mode, you activate the key lock function. If you rather had selected the **PMR BAND** and the calling tone (CA) is on, by pressing this button, you send a **CALL** signal on the channel in use. If **AM/FM** is set, by pressing **SCAN/MINUTE** you select the saved frequency; if you press this button while the radio is off, you can change the hour of the clock.
5. **FLASHLIGHT - BASE CAMP** has a built-in flashlight.
6. **USB JACK** - used for charging mobile phone, mp3 and iPod thru the dynamo crank.
7. **EXTERNAL SPEAKER/MIC JACK**- allows the connection with external devices as headsets, microphones...
8. **EXTERNAL CHARGER JACK**- allows **BASE CAMP** to be charged by an external charger.
9. **SPEAKER - MIDLAND BASE CAMP** has a built-in speaker.
10. **MENU/MORSE** button - pressing this button while the radio is in **PMR BAND**, you access to **MENU** mode. If you are in **AM/FM/MARINE BAND**, pressing more time this button, you can send Morse codes.
11. **PTT/SELECT/SNOOZE** button- if the radio is in **PMR BAND**, press this button for transmitting, and release it to receive. When **MIDLAND BASE CAMP** is in clock mode or synchronized on whatever other **BAND**, pressing this button while the alarm clock is ringing, you postpone it. (snooze)
12. **DYNAMO CRANK HANDLE** - rotated clockwise or counter-clockwise, you charge the NiMH battery pack; moreover, it's possible to recharge mobile telephone, mp3 or iPod thru the USB jack.
13. **BAND SWITCH** - used to switch among **AM/FM/PMR/MARINE** mode.
14. **TUNING KNOB** - rotated in clockwise or counter-clockwise, you can make these adjustments:
 - clock
 - frequencies of radio reception
 - **MENU** settings and selection of the channel (**PMR BAND**)
 - selection of the channel (**MARINE BAND**)
15. **BATTERY SOURCE SWITCH** - used to switch between Alkaline and Rechargeable NiMH batteries.
16. **LIGHT ON/OFF SWITCH** - used to turn the flashlight on/off.
17. **TONE CONTROL KNOB** - turn clockwise or counter-clockwise to increase/decrease the tone (on **AM/FM BAND**).
18. **POWER/VOLUME KNOB** - turn clockwise to turn the power on and increase the volume level. Turn counter-clockwise to decrease the volume level and turn the power off.
19. **MIC - MIDLAND BASE CAMP** has a built-in microphone.

INSTALLING THE SHOULDER STRAP

To install the shoulder strap, slide the shoulder strap clip down into the metal pins on the top of **MIDLAND BASE CAMP** until it locks into place.



CONTENT

- N° 1 **MIDLAND BASE CAMP**
- N° 1 Wall adaptor
- N° 1 800mA/h battery pack
- N°1 Shoulder strap
- N°1 2pin mike

COVERAGE/RANGE

The maximum range depends on terrain condition and is obtained during use in an open space. The only limitations to maximum possible range are environmental factors such as blockage caused by trees, buildings, or other obstructions. Inside a car or a metallic construction, the range can be reduced. Normally the coverage in the city, with buildings or other obstructions is about **1 or 2 Km**. In open space but with obstructions like trees, leaves or houses the maximum possible range is about **4-6 Km**. In open space, without obstructions and in sight, like for example in mountain, the coverage can be more than **12 Km**.

OPERATIONS AND FUNCTIONS

POWER ON/OFF AND VOLUME

Rotate the **POWER/VOLUME** knob clockwise to turn the radio on and to increase the volume level. Rotate the control counter-clockwise to reduce the volume level and to turn the radio off. During Power on, the LCD display will show all icons for 1 second and the LCD display will indicate the last channel/frequency selected.

BAND SELECTION

Select the **PMR BAND** using the **BAND** switch. According to the version you bought, you can choose amongst the following channels:

Dual BAND version: PMR446 from P1 to P8 and from 9p to 24p (pre-set) / LPD from 1 to 69.

PMR446 version: from P1 to P8 and from 9p to 24p (pre-set).

The pre-set channels correspond (as here following) to:

9 p	corresponds to channel P1 16	17 p	corresponds to channel P1 31
10 p	corresponds to channel P2 16	18 p	corresponds to channel P3 31
11 p	corresponds to channel P3 16	19 p	corresponds to channel P5 31
12 p	corresponds to channel P4 16	20 p	corresponds to channel P7 31
13 p	corresponds to channel P5 16	21 p	corresponds to channel P2 31
14 p	corresponds to channel P6 16	22 p	corresponds to channel P4 31
15 p	corresponds to channel P7 16	23 p	corresponds to channel P6 31
16 p	corresponds to channel P8 16	24 p	corresponds to channel P8 31

CHANNEL SELECTION

In **PMR** mode, the LCD will display the channel number (for ex. P1).

For selecting the desired channel, you have to turn clockwise/ counter clock-wise the **TUNING KNOB**.

TRANSMISSION AND RECEPTION

To communicate, all radios in your group must be set to the same **BAND (PMR)** and to the same channel.

To transmit, press and hold the **PTT** button and speak in a normal voice into the microphone. The **"TX"** icon will appear continuously on the LCD display while transmitting.

You can communicate also using an external accessory or a hand mic, pressing and holding the

PTT button on the side of the hand mic. For a maximum clarity, hold the device at a distance of about 2/3 cm.

To receive a **CALL**, release the **PTT** button. The “**RX**” icon will appear on the display when your radio is receiving a transmission.

MONITOR

The **MONITOR** function allows you to exclude temporarily the automatic squelch for receiving potential weak signals, which wouldn't be received.

To activate the **MONITOR**, press the “**MONITOR**” button.

This function can be activated exclusively in **PMR/MARINE BAND**.

SCAN

MIDLAND BASE CAMP can **SCAN** all channels for any activity. When the radio is in receiving mode, the **SCAN** function will stop, and will resume scanning 5 seconds after the signal is no longer present. This function is useful to control which channels are free.

When you press the **PTT** button to transmit on an active channel, the scanning function will stop and remain on the active channel.

To resume scanning, quickly press the **SCAN** button.

This function can be used only in **PMR/MARINE BAND**.

KEYPAD LOCK

Press for about 5 seconds the **LOCK/CALL** button; the **KEY LOCK** icon will appear on the display. In this way, the lock function is activated and the **MENU** and **SCAN** button will be disabled.

This function can work only in **PMR/MARINE BAND**.

Repeat the same procedure to unlock the keypad.

DISPLAY ILLUMINATION

In clock mode (power off) the display illumination can be activated by pressing the **MENU** button, or turning the **TUNING KNOB**.

During power on, the display illumination will activate for approx. 5 seconds. The display illumination can also be activated pressing the majority of the buttons. (Power on)

CTCSS/DCS TONES

The **CTCSS/DCS** tones are codes that can be added to the pre-set channel for creating new private ones. For each channel you can choose until 38 **CTCSS** codes and 83 **DCS** codes.

The addition of these codes can be made on these following channels:

PMR446- only on the main **PMR** channels (from P1 to P8). The pre-set channels from 9p to 24p can not be modified.

To select a privacy code for the current channel press the **MENU** button once, then turn the **TUNING** knob to select the chosen code. The Privacy selected Code will appear on the display.

To confirm the selection, press the **PTT** button or wait for 5 seconds.

To activate the **DCS** codes, press the **MENU** button twice, then turn the **TUNING** knob to select the desired code. The Privacy selected Code will appear on the display.

To confirm the selection, press the **PTT** button or wait for 5 seconds.

To disable the **CTCSS/DCS** functions, select the private code and then press the **MENU** button, until visualize the flashing **CTCSS** Privacy Code on the right of the display. Select then “**off**”, turning the **TUNING** knob. (It will appear “**off**” on the display)

To confirm, press **PTT**.

Note: if you select any **CTCSS** Privacy Code, any pre-selected **DCS** Privacy Code will be deleted and vice-versa. To communicate with other radios, they must be set to the same channel and Privacy Code selections.


TRANSMIT (TX) POWER LEVEL SELECTION

MIDLAND BASE CAMP has 2 power level settings. To select the power level, the radio must be on **PMR** mode on P1-P8 channels. Press the **MENU** button until a “**Pr**” icon will appear on the display, then turn the **TUNING** knob to select the TRANSMIT POWER LEVEL **High (H)** or **Low (L)**. On the display it will appear **H** or **L** according to the power selected.

To confirm, press the **PTT** button or wait 5 seconds.

When the battery is completely charged, the maximum power is 500 mW (ERP), while the lowest one is 10mW (ERP).

Thanks to this function, if you don't have to cover wide distances, you can select the “low power” mode and so, increase the battery life.

! When the battery Meter drops to 1 bar , the TX Power will automatically switch from Hi (H) to Lo (L) level.

VOX

MIDLAND BASE CAMP has 4 **VOX** levels (off, 1, 2, 3, and 4). This function allows the user to activate the communication without pressing the **PTT** button. You just have to speak and the communication is on.

You can set the **VOX** on 3 levels, with or without accessories.

The fourth level activates the **VOX** with Talkback function: when one of the two devices transmit for more than 20 seconds, the **VOX** Talkback stops the transmission for 10 seconds; so the other user has himself the opportunity to talk.

To set the **VOX** level, press the **MENU** button, until the display shows “**VO**”.

After that, turning the **TUNING** knob, you can choose “**1**”, “**2**”, “**3**” or “**4**”.

To confirm, press the **PTT** button or wait for 5 seconds.

To disable the **VOX** function, by turning the **TUNING** knob, select “**oF**” and then push the **PTT** key.

CALL ALERT SELECTION

MIDLAND BASE CAMP allows to send a **CALL** alert signal to all the users of the same channel; on the display it appear the “**TX**” icon and the tone of confirmation can be heard by your own speaker. **MIDLAND BASE CAMP** has 5 selectable **CALL** alerts (oF, 1, 2, 3, 4, and 5).

To **CALL**, press the **LOCK/CALL** button.

To select, press the **MENU** button until a “**CA**” icon with the current **CALL ALERT** setting is displayed.

Turn the **TUNING** knob to make the **CALL** alert selections; the radio will emit a corresponding tone for each selection. To confirm, press the **PTT** button or wait for 5 seconds.

The pressure of the **CALL/LOCK** button for 5 seconds in **AM/FM** mode, allows the user to store a desired radio station.

ROGER BEEP (end of transmission tone)

When the **PTT** button is released, the radio will beep to confirm to other users that you've finished your transmission and that they can begin to speak.

To turn the **ROGER BEEP** on, press the **MENU** button till the display shows “**rb of**”; then by the **TUNING** knob, select “**rb on**”. The display will show the icon “**RGB**”.

To confirm, push the **PTT** button or wait for 5 seconds.

To disable this function, repeat the procedure selecting the “**rb of**” and on the display will disappear the icon “**RGB**”.

BEEP TONE

This function permit you to produce a beep tone every time you press a button.

If you want to enable this function, press the **MENU** button until the display shows “**bp on**”, then select by the **TUNING** knob “**bp of**”.

To confirm, press the **PTT** button or wait for 5 seconds.

The icon  will desapper.

In this way, all “beeps” and “tones” are disabled.

To re-able this function, repeat the procedure selecting the “**bp on**” by turning the **TUNING** knob and confirm by pressing the **PTT** button or wait for 5 seconds.

DUAL WATCH

The **DUAL WATCH** function enables users to **MONITOR**, only in reception, 2 selected channels for any activity.

To turn on the **DUAL WATCH** function, press the **MENU** button until the display shows “**DW of**”. Select the second channel by turning the **TUNING** knob. To select one of the 38 **CTCSS/DCS** Privacy Codes for the second channel press again the **MENU** button and select the privacy code turning the **TUNING** knob.

To confirm press the **PTT** button or wait for 5 seconds.


The display will show “**DW**” alternatively the channel in use and the second one selected.

To turn off the **DUAL WATCH** function, you can just press the **SCAN** button or the **MENU** one.

When the radio will receive a signal on one of the two channels selected, the “**DUAL WATCH**” function will temporarily stop, allowing the transmission and the reception of the active signal on the channel in use.

MIDLAND BASE CAMP will stay in the active channel as long as the signal is present and will resume scanning 5 seconds after the signal is no longer present.

MARINE BAND

Select the **MARINE BAND** using the **BAND** switch, the display will show the least selected channel and the **MARINE** icon.  **MARINE BAND** can not transmit, but only receive signals.

When you are in **MARINE** mode, the display will show the number of the channel (for ex. 1 d).

To select the desired channel, turn clockwise or counter-clockwise the **TUNING** knob.

In **MARINE BAND**, you can activate also the **SCAN**, **MONITOR** and **LOCK** functions.

AM/FM RECEIVER MODE

BASE CAMP can receive **AM/FM** frequencies, by selecting through the **BAND** switch the desired mode. The display will show the selected **AM/FM BAND** and the active frequency.

Selecting the frequency on AM/FM BAND

To select the **AM/FM** frequency, turn clockwise and counter-clockwise the **TUNING** knob. Holding the knob for 2 seconds, the radio will **SCAN** for the frequencies until it receives a strong and clear signal; if you keep holding the knob clockwise or counter-clockwise for 5 seconds, the **SCAN** function is continuous, until you stop it just turning slightly the **TUNING** knob or pushing the **PTT** button.

Memorizing the frequency

BASE CAMP can store 2 selected frequencies in **AM** and 2 in **FM BAND**. To memorize the first frequency, press for 5 seconds the **LOCK/CALL** button while for the second one keep pressing the **SCAN** button.

SETTING THE CLOCK MODE

When **BASE CAMP** is off, the display shows the current time setting.
To visualize the clock while the radio is on, just turn the **POWER/VOL** knob on off.

To change the hour setting of the clock:

- Press the **LOCK/CALL/HOUR** button, and the hour digit of the clock will blink.
- Turn the **TUNING** knob to change the hour setting.
- To confirm, press the **PTT/SELECT** button or wait for 5 seconds.


To change the minute setting of the clock:

- Press the **SCAN/MINUTE** button while in **CLOCK** mode and the minute digit of the clock will blink.
- Turn the **TUNING** knob to change the hour setting.
- To confirm, press the **PTT/SELECT** button or wait for 5 seconds.

SETTING THE ALARM CLOCK

BASE CAMP can also function as an **ALARM CLOCK**.

To turn the ALARM CLOCK on:

Press the **MONITOR/ALARM ON/OFF** button while in **CLOCK** mode, the **ALARM CLOCK** icon  will appear on the display.

To set the hour setting of the **ALARM**, press the **LOCK/CALL/HOUR** button while in **CLOCK** mode and the hour digit of the clock will blink. Turn the **TUNING** knob to change the hour setting. To confirm, press the **PTT/SELECT** button or wait for 5 seconds.

To set the minute setting of the **ALARM**, press the **SCAN/MINUTE** button while in **CLOCK** mode, and the minute digit of the clock will blink. Turn the **TUNING** knob to change the minute setting.

To confirm, press the **PTT/SELECT** button or wait for 5 seconds.

To turn the ALARM CLOCK off:

To disable the alarm clock, press the **MONITOR/ALARM ON/OFF** button while in **CLOCK** mode.  will disappear.

Instead, if you press the **MENU/MONITOR/SCAN-LOCK-CALL** button, the alarm clock icon will still be displayed, but the alarm will ring the day after at the same time, that is, after 24 hours from the pre-setting alarm time.

Setting the alarm clock snooze

When the **ALARM CLOCK** goes off, you can activate the **SNOOZE** function by pressing the **PTT/SNOOZE** button. Every time the **SNOOZE** button is pressed the **ALARM CLOCK** will go off again after 8 minutes.

USING THE FLASHLIGHT

BASE CAMP has a built-in **FLASHLIGHT**.

To turn the **FLASHLIGHT ON**, set the **LIGHT** switch to "on".

To turn the **FLASHLIGHT OFF**, set the **LIGHT** switch to "off".

MORSE CODE

BASE CAMP can send Morse code.

When the radio is on **AM/FM/MARINE BAND**, pressing the **MENU** button more time it's possible to send Morse signals.

USB JACK


MIDLAND BASE CAMP can be used to charge a mobile phone, iPod, mp3 player by the **DYNAMO CRANK**, AC or DC Adapter thru the USB jack.

- Attach a USB charging cable (optional) to the USB jack of the **MIDLAND BASE CAMP**;
- Connect the other end of the **USB charging cable** to the mobile phone, mp3 or iPod;
- Recharge the mobile phone battery, the mp3 or the iPod by turning rapidly the **DYNAMO CRANK**, or by connecting the **AC** or **DC Adapter** into the **Charging jack**.

RECHARGING THE BATTERY PACK

MIDLAND BASE CAMP is equipped for using a 6V NiMH rechargeable battery pack which can be recharged using an AC wall adapter (included) or a DC adapter (included).

Initial charge time is 12 hours with a charge time of 8/10 hours thereafter.

For maximum battery life, we recommend charging the battery pack when the **BASE CAMP** is off and the low battery icon  comes on.

To recharge the battery pack you need to connect the socket of the wall adaptor to a mains power socket and insert the jack of the wall adaptor into the charging jack of the **BASE CAMP**.

Remove **MIDLAND BASE CAMP** from the charger only when the charge time expires.

You can also charge the rechargeable NiMH battery pack using the **Dynamo crank**. To charge using the **Dynamo Crank** rotate rapidly the **Dynamo Crank** handle clockwise or counter-clockwise.

WARNING

! The supplied wall charger is using "standard charging" method. This is a method, where the charging current is about 10 % of the capacity and the batteries will be charged over night or within 10-14 hours. Using this method, chargers do not automatically disconnect charging when batteries are fully charged. It does not matter if you let the charger connected from time to time longer than necessary, but you should avoid to



keep the radio permanently connected to the wall charger, when you do not need it.

! The charger is only designed for NiMH rechargeable batteries and cannot be used for standard Alkaline or other not chargeable batteries. Trying to charge such kind of batteries can be a risk. Such batteries may leak, explode or even burn and cause damage or personal injuries!

! Please use only the supplied wall charger type and no other charger.

! Dispose of the batteries according to the procedures set out by local regulations.

Battery level indicator

MIDLAND BASE CAMP has a BATTERY LEVEL METER  that shows the battery power level. Greater is the number of bars visible, stronger will be the battery level. When the battery level is low, the Battery icon  will flash in the display, indicating that your batteries should be replaced or recharged if using a rechargeable battery pack.

Selecting the power source

MIDLAND BASE CAMP can use either an Alkaline battery or the rechargeable NiMH battery pack. Just set the **BATTERY SOURCE** switch to either “alkaline” or “rechargeable” (for NiMH battery pack) mode.

USE AND CARE

! Use a soft damp cloth to clean the radio. Do not use alcohol or cleaning solutions.

! Do not immerse the radio in water.

! Turn off the radio and remove the batteries during long term storage.

TABLE OF SOLUTIONS

Problem	Possible cause	Solution
The radio doesn't switch on	The battery pack is discharged and/or has not been installed correctly.	Verify that the battery pack is charged and that it has been correctly installed.
The radio switches off shortly after it has been switched on	Discharged battery pack.	Recharge the battery pack.
The battery pack does not recharge	The battery-charger has not been connected or installed correctly.	Inspect the connections of the battery-charger and the installation of the batteries.
	The site of installation is too shielded.	Move to another area.
The radio switches on but is unable to receive signals	The volume is too low	Adjust the volume.
	Incorrect CTCSS or DCS	Check that the CTCSS tone or DCS code corresponds to the one set by the parties you are communicating with.
Noise is always present in reception mode	The monitoring function is enabled.	Disable the monitoring function.
It is not possible to communicate with other parties	An incorrect radio channel has been selected.	Select the same radio channel used by the parties you are communicating with.
	The radio is installed in a shielded area or is too far from the party you are communicating with	Move to another area.
	Incorrect CTCSS or DCS	Check that the CTCSS tone or DCS code corresponds to the one set by the parties you are communicating with.
Reception is fragmented and/or disturbed	The signal is very weak.	Try temporarily disabling the squelch by means of the Monitoring feature.
	The transmission distance is excessive and/or there are obstacles in the transmission path	Move closer to the party you are communicating with or to another area.
	Other parties are using the same channel	Check the traffic on the radio channel by means of the Monitoring feature and select another channel if required.
	The radio has been installed too close to equipment that causes interference (televisions, computers, etc.)	Increase the distance between the radio and this equipment.
Received communications are not clear	The channel in use is too busy.	Select another channel.

Transmission is not always possible	The channel is used by an excessive number of parties or the transmission has been barred due to a busy channel.	Select another channel. Ask the radio link provider to disable the block due to busy channel.
	The transmission timer has enabled	Reduce transmission time. Ask the radio link provider to set the transmission timer to a higher value.
VOX causes the radio to accidentally enable transmission	The sensitivity and/or environmental noise are too high.	Reduce the VOX sensitivity.
The VOX feature requires speaking in a loud voice	The sensitivity is too low.	If the environmental noise is not high, increase the sensitivity or use an optional microphone.
Logic related faults (unreadable displayed symbols, functions)	Incorrect setting caused by a problem with the power supply.	Recharge the battery pack.
The autonomy of the battery pack is limited	Commission time is too high.	Try reducing the transmission time and/or using a low power.
	For NiMH battery packs only: memory effect on the battery pack	Eliminate the memory effect.

TECHNICAL SPECIFICATIONS

Channels 1~8 PMR, 1~69 LPD
Frequency generation PLL synthesizer
Frequency range 446.00625 - 446.09375MHz (PMR)
..... 433.075 - 434.775MHz (LPD)
..... 520 - 1620KHz (AM)
..... 87.5 - 108.0MHz (FM)
..... 156.3 - 162MHz (MARINE)
Aerial 12.5 KHz (PMR); 25 KHz (LPD)
Rated power supply 6+/- 10% VDC
Operating temperature from -20° to +55°
Size (without antenna) 120x180x 55 mm
Weight (without batteries) 0,563 kg
Operation cycle (% on 1 h)..... TX 5%, RX 5%, stand-by 90%

Transmitter

Output power (ERP)..... 10 o 500 mW (Selectable)
Type of circuit FM
Suppression of spurious signals Compliant with ETSI law

Receiver

Sensitivity at 12dB Sinad 0,35µV
Spurious signals rejection 70dB
Audio output power (10% THD) 2W
Medium frequencies 1°:21,4 MHz ; 2°:455 KHz
Connection for external microphone and recharge..... 2,5 mm jack stereo
Connector for external speaker..... 3.5 mm jack mono

Specifications are subject to change without notice.

CTE International herewith declares that the product complies with the essential requirements of EC Directive 99/05/EC; the declaration of conformity of the device can be consulted onto www.midlandradio.eu