



**Model: TP380**  
**User Manual**  
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**Manuel d'utilisation**  
**Bedienungsanleitung**  
**Manual de uso**  
**Manual do usuário**  
**Gebruikshandleiding**  
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# PMR RADIO TRANSCEIVER

MODEL: TP380

USER MANUAL

## INTRODUCTION

Thank you for selecting the Oregon Scientific™ TP380 as your product of choice. This product is a portable, easy-to-use two-way radio transceiver that you can use to contact your family and friends at shopping malls, amusement parks, or even sports events!

The transceiver has 8 channels and 38 CTCSS (Continuous Tone Coded Squelch System) codes. If someone else is using the same channel as you, you can select another channel or use the CTCSS feature. Talk with another person if you are both tuned to the same channel and/or CTCSS code.

The TP380 complies with the Japanese Industrial Standard Drip-proof Type II specification. This means your transceiver offers various degrees of protection against water seeping inside the device, against solid foreign objects, and access to hazardous parts in the unit.

The use of the PMR446 frequency is allowed and free in most countries in the Europe, subject to applicable regulations. Use of this radio outside countries where it was intended to be distributed is subject to government regulations and may be prohibited.

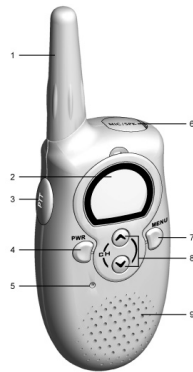
Actually (aug'04) the use of PMR446 in Norway is forbidden, in Italy and the Czech Republic it is subject to General Authorization.





## KEY FEATURES

### FRONT VIEW





NO.	DESCRIPTION	FUNCTION
1	Antenna	Flexible, bendable antenna receives and transmits signals, reduces chance of breakage and fits more easily and comfortably into shirt or pants pocket
2	LCD	Display screen
3	<b>PTT</b>	1. Push to talk 2. Press <b>PTT</b> twice to enable Call Tone function 3. Confirm selection in <b>MENU</b> mode
4	<b>PWR</b>	Press to turn the unit on and off
5	MIC	Speak into microphone enables communication
6	MIC/Speaker	Allows use of headset for hands free communication

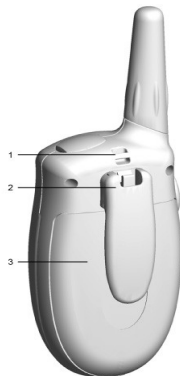




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7	<b>MENU</b>	1. Scroll through menu options 2. Press and hold <b>MENU</b> to enable monitoring function
8		1. Increase Volume 2. Select Channel, CTCSS in <b>MENU</b> mode
		1. Decrease Volume 2. Select Channel, CTCSS in <b>MENU</b> mode
9	Speaker	Receives voices / sounds from incoming call

**BACK VIEW**



NO.	DESCRIPTION	FUNCTION
1	Strap hole	Loop strap through so you can hang unit from your neck
2	Belt Clip	Clip to your pocket or belt.
3	Back cover	Remove to access battery compartment

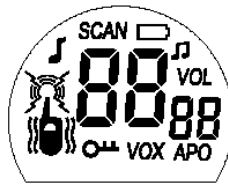
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### LCD DISPLAY SYMBOLS

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SYMBOL	FUNCTION
	Receiving
	Transmitting
<b>VOL</b>	Volume
<b>VOX</b>	Voice Activation System
	Key Lock
<b>APO</b>	Auto Power Off
	Key Beeps
	Roger Beeps
<b>SCAN</b>	Scan Channel or CTCSS
	Battery Indicator
	Silent Alert function quietly alerts you of any incoming calls without beeping noises
<b>88</b> (big)	Channel Number: Select between 8 channels
<b>88</b> (small)	CTCSS code: Adjust to minimize interference problems





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## SAFETY AND CARE INSTRUCTIONS

### SAFETY PRECAUTIONS

Please observe the following safety precautions when setting up and using this product.

- \* LCD panel – The LCD panel is made of glass, and may break if the unit is dropped or impacted.
- \* Heat sources – Keep the product away from heat sources such as radiators, stoves, heaters, and other heat-generating products.
- \* Water and moisture – Do not use the product in or near water or in high moisture areas such as a bathroom.

### CARING FOR THIS PRODUCT

To ensure you receive the maximum benefit from using this product, please observe the following guidelines.

- \* Cleaning – Use a damp cloth. Do not use liquid cleaning agents, benzene, thinner, or aerosols.
- \* Repair – Do not attempt to repair the product or modify the circuitry by yourself. Contact the retailer or a qualified repairman if the product requires servicing. Only use replacement parts that are recommended by the manufacturer.
- \* Do not scratch hard objects against the LCD display as this may cause damage.

### CAUTION

- \* To avoid risk of fire or injury, do not attempt to charge non-rechargeable batteries. Please turn off the unit while charging.
- \* Replace only batteries with the same or equivalent type recommended by the manufacturer.
- \* Please dispose of old, defective batteries in an environmentally friendly manner in accordance with the relevant legislation.
- \* No naked flames, such as lighted candles, should be placed near the apparatus.

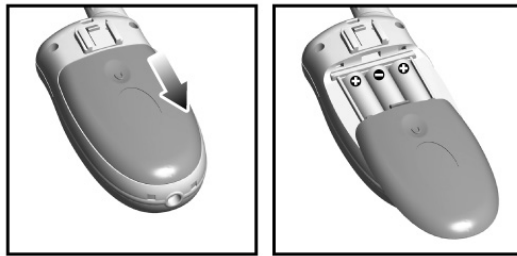




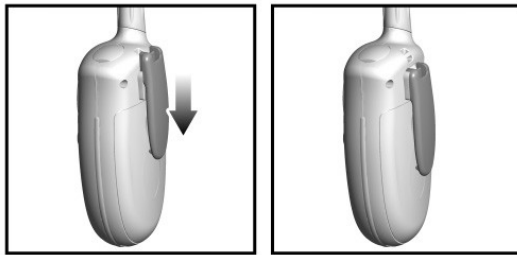
### OPERATING THE TRANSCIVER

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1. To access the battery compartment, slide the hook at the back of the transceiver in an upward motion and remove.
2. Slide the back cover of the transceiver in a downward motion to remove.
3. Insert 3 AAA batteries into the battery compartment, noting polarities.



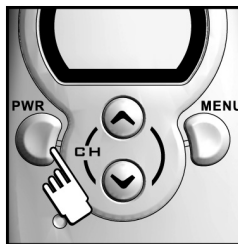
4. Slide the transceiver back cover and hook back into place.





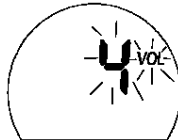


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5. Press and hold **[PWR]** to turn on the device. The unit will beep with the LCD displaying all symbols for 1 second.



6. Use  or  to increase or decrease volume, respectively. The VOL number will show on the LCD accordingly.



7. To turn the device off, press and hold **[PWR]** until the unit beeps and the LCD goes blank.

### BASIC FUNCTIONS

**NOTE:** The battery indicator will flash to indicate low battery power.







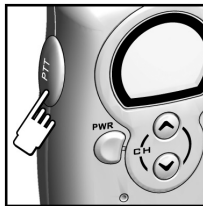
**NOTE:** 1. Use 3 AAA alkaline or rechargeable batteries when operating this unit. Before charging, study the user manual section on “Charging Contacts” for further instructions.



2. Reset: At any time if the unit can't work properly, please take off the batteries and insert them again.

#### TALKING INTO TRANSCIEVER

1. Hold down the **PTT** button and speak into the MIC to transmit (📻 appears on the LCD). When finished, release the button.



2. The transceiver will automatically play received transmissions.

**NOTE:** You can only communicate with another radio that is using the same channel and/or CTCSS code as your radio.

#### CALL FUNCTION

You can send a ringer sound to all transceivers tuned to the same channel and / or the CTCSS code as your transceivers by pressing **PTT**.

1. Push **PTT** to talk.
2. Press **PTT** twice in rapid succession to enable the Call Tone function.
3. Confirm selection in **MENU** mode.

#### USING THE KEY LOCK

You can lock the buttons on the transceiver to avoid accidentally enabling the device. To enable/disable key lock, press **PWR + MENU** simultaneously. The lock symbol will show on the LCD.

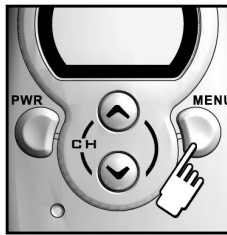




### AUTO-SQUELCH FUNCTION

Your transceiver has an Auto-Squelch function for hearing weaker, distant transmissions. You will not hear anything on a channel unless someone is transmitting nearby on the same channel.

1. Press and hold **MENU** for 2 seconds to enable/disable this function.






2. Press **MENU** to access the Menu Options. The transceiver will then toggle between the following configurable settings:

SYMBOL	SETTING	DESCRIPTION
<b>88</b> (big)	Channel	Selects channel for transmission
<b>88</b> (small)	CTCSS	Selects a CTCSS code for the current channel
<b>VOX</b>	VOX	Enable/disable voice-activated transmission





	Roger Beep	Enable/disable beep heard after the finish of a received transmission
	Key Tone	Enable/disable beep when a key on the transceiver is pressed
	Vibrating	Enable/disable vibration function
<b>APO</b>	Automatic Power-Off	Enable/disable automatic shut-off after device is idle for 2 hours





**NOTE:** Press **MENU** to confirm and move to the next setting. To confirm the changes but quit the Menu Options, press **PTT**.

#### SELECTING A CHANNEL

Select between 8 channels. The transmitter and receiver must be on the same channel.

1. Press **MENU** once until the channel number starts flashing on the LCD.



2. Press and hold  or  to begin scanning a channel. If a valid signal is present, the transceiver will pause on the current active channel.
3. Press **PTT** to stop scanning and exit the menu. Or, press **MENU** to stop scanning and go to the next Menu Option.

#### CTCSS SCANNING

You can activate the channel scan function:

1. Press **MENU** twice until the CTCSS number starts flashing on the LCD.





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2. Press and hold **▲** or **▼** to begin scanning a CTCSS channel. If a valid signal is present, the transceiver will pause on the current active channel.



3. Press **PTT** to set and store the CTCSS channel, or the transceiver stores the display setting after 15 seconds. The scan mode will immediately search for the next CTCSS channel if no button is pressed after 5 seconds.
4. Press **PTT** to stop scanning and exit the menu. Or, press **MENU** to stop scanning and go to the next Menu Option.



#### SETTING VOX & BABY MONITOR



This setting automatically detects and transmits your voice through the selected channel, without needing to push and hold **PPT**.

1. Press **MENU** 3 consecutive times until **VOX** appears on the LCD.



2. Select between 6 levels of VOX by pressing **▲** or **▼** key.

LCD SYMBOL	DESCRIPTION
0	VOX disabled
1	Low sensitivity – only audibly loud voices are transmitted(useful for noisy environments)





2	Normal sensitivity – ideal setting for voice-activated transmission
3	High sensitivity – all detected sound (including noise) are transmitted
b1	Low sensitivity – only audibly loud baby voices are transmitted (useful for noisy environments)
b2	Normal sensitivity – ideal setting for voice-activated transmission
b3	High sensitivity – all detected baby sounds are transmitted




- 3) Press PTT to confirm the VOX/b1/b2/b3 setting.
  - 4) Press PTT again to activate VOX/b1/b2/b3 function.
- You can now begin voice transmission.





#### ROGER BEEP MODE

With Roger Beep, the receiving party hears a beep tone when a message has been transmitted. This avoids situations where messages are interrupted during transmission.

1. Press **MENU** 4 consecutive times until  appears on the LCD.



2. Press  or  to activate /deactivate the Roger Beep function.


#### KEY TONE

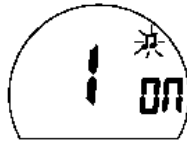
The Key Tone function, if enabled, causes the unit to beep when a button is pressed.







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1. Press **MENU** 5 consecutive times until  appears on the LCD.

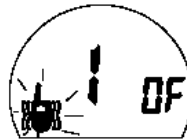


2. Press  or  to activate/deactivate the Key Tone function.

#### SILENT ALERT

Enabling the Silent Alert function allows you to be aware of any incoming calls without needing to turn on any beeping sounds.

1. Press **MENU** 6 consecutive times until  appears on the LCD.



2. Press  or  key to activate/deactivate the Silent Alert function.

#### NOTE:

1. If the vibration alert feature is activated, the device will vibrate for 20 seconds.
2. The unit will not vibrate if there are continue transmission.
3. The unit will **ONLY** vibrate again without any transmission after 30 seconds for energy save purpose, thereafter.

#### APO FUNCTION (AUTOMATIC POWER OFF)



This enables your transceiver to automatically shut itself off if left idle for 2 hours and save battery power.





1. Press **MENU** 7 consecutive times until **APO** appears on the LCD.



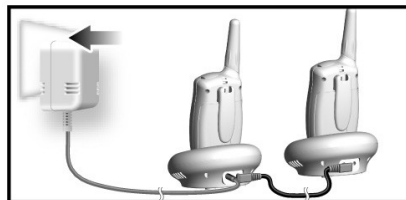
2. Press  or  key to activate/deactivate the function.

**NOTE:** Press any button to re-enable the transceiver after automatic shut-off.

## ACCESSORIES

### CHARGING CONTACTS

Your TP380 transceiver comes with 2 individual drop-in chargers that allow you to charge 2 transceivers at the same time using a connector cable and 1 adaptor. You may also charge each transceiver separately by an additional charger that come with the package.



The cradle charger LED lights red during charging, and takes 14 to 16 hours to complete.





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**CAUTION:**

1. Located inside the transceiver's battery compartment is a charging switch, which must be set to "ON" while charging. If alkaline batteries are used, switch the set to "OFF". To avoid risk of fire or injury, do not switch to ON when using alkaline batteries. Directly charge Ni-MH rechargeable batteries by using an optional 1-bay cradle charger.
2. DO NOT link the individual chargers together while using separate adaptors to charge.

**WARNING:**

1. To maintain the battery life of your 2-way radios we recommend that you only charge batteries when needed. Overcharging the batteries will reduce performance.
2. For best results ensure that the handsets are switched OFF before charging



**APPENDIX**

**CHANNEL FREQUENCIES**

CHANNEL	FREQUENCY (IN MHZ)	CHANNEL	FREQUENCY (IN 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







### CTCSS PRIVACY CODES

CHANNEL	FREQUENCY (IN HZ)	CHANNEL	FREQUENCY (IN HZ)
01	67.0	20	131.8
02	71.9	21	136.5
03	74.4	22	141.3
04	77.0	23	146.2
05	79.7	24	151.4
06	82.5	25	156.7
07	85.4	26	162.2
08	88.5	27	167.9
09	91.5	28	173.8
10	94.8	29	179.9
11	97.4	30	186.2
12	100.0	31	192.8
13	103.5	32	203.5
14	107.2	33	210.7
15	110.9	34	218.1
16	114.8	35	225.7
17	118.8	36	233.6
18	123.0	37	241.8
19	127.3	38	250.3





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## SPECIFICATIONS

RX Frequency	<b>446.00625 – 446.09375 MHz</b>
Channels	<b>8</b>
Modulation type	<b>FM</b>
Antenna impedance	<b>50 Ohm</b>
Microphone	<b>condenser type</b>
Power supply	<b>3 × AAA Alkaline</b>
Sensitivity at 12dB Sinad	<b>0.5μV</b>
Adjacent Channel Rejection	<b>55dB</b>
Audio Squelch	<b>Auto</b>
Audio output power	<b>100mW @ 8 Ohm</b>
Audio Distortion	<b>7%</b>
RF Output Power	<b>500 mW @ 4.5VDC</b>
Harmonic emission suppression	<b>&gt;= 63dB</b>
Dimensions (HWD)	<b>87×54×36mm</b>
Weight (without batteries)	<b>80g</b>





### EN-DECLARATION OF CONFORMITY



Hereby, Oregon Scientific declares that this PMR446 model TP380 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

**CE0359**

A copy of the signed and dated Declaration of Conformity is available on requested via our Oregon Scientific Customer Service.

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