

**PMR446 radio**

**PT-375**



**operation manual**

## Features · Scope of delivery

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- PMR446 radio
- Compact, elegant design
- 99 channels (56 pre-programmed)
- Transmission power 500 mW
- Channel spacing 12.5 kHz
- Voice prompt
- VOX function, sensitivity adjustable in 10 levels
- Splash-proof according to IPX2
- Search function
- Key tones
- Roger Beep
- Battery saver mode
- Monitor function
- Squelch adjustable in 10 levels
- Display with adjustable brightness
- Battery warning via voice output
- 2-pin socket for audio accessories
- 2300mAh Li-ion battery
- PC programmable

## scope of delivery

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- Radio
- Belt clip, rotatable
- Rechargeable Li-ion battery 3.7V/2300mAh
- Stand charger (for battery on radio or battery individually)
- Power adapter with micro USB cable

### **maintenance**

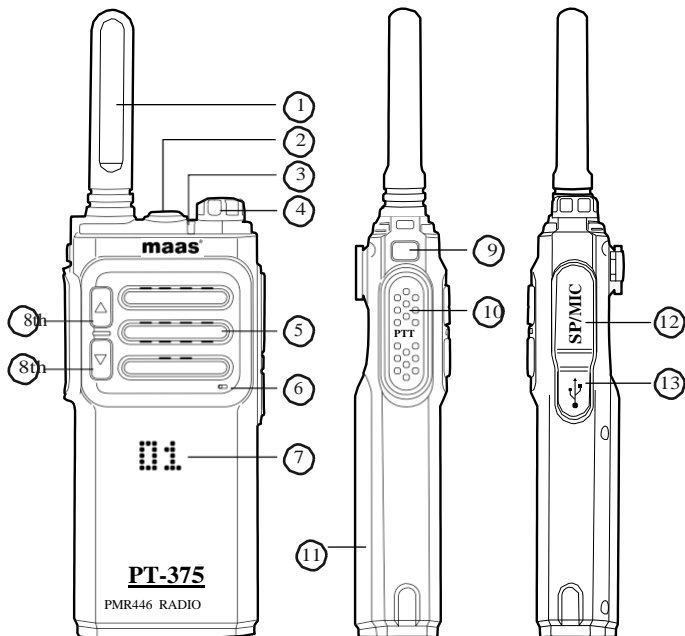
The PT-375 is designed to function flawlessly for many years and to give you long-lasting enjoyment.

As with all electronic devices, the following recommendations apply here:

- Do not open the device. Improper handling can damage the device.
- High temperatures can damage electronic devices.
- Do not place the radio in a dusty or dirty environment.
- Protect the radio from moisture and rain.
- If the radio emits a strange smell or smoke, turn it off and remove the battery or disconnect the power supply.
- Do not transmit without an antenna.

## Front and side views

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1. Antenna (not removable)
2. Press the button briefly to access the menu. Long press the button to start the search.  
The button can be individually programmed using the PRG-10 programming kit.
3. Switch/Volume Knob: Rotate clockwise to turn on the device and then increase the volume.  
Turn it counterclockwise to reduce the volume or turn off the radio.
4. LED Red=Send; Orange=Send with CTCSS/DCS; Green: Receive
5. Speaker openings
6. Microphone
7. Display
8. UP/DOWN buttons:  
Short press to switch 1 channel up or down. Press and hold to skip 10 channels at once. Change direction using the buttons during the search.
9. Monitor button: Short press to turn the monitor function on or off. Press and hold to display the battery charge level. The button can be individually programmed using the PRG-10 programming kit.
10. PTT: Press and hold to transmit. When the button is released again, the radio goes into reception.
11. Li-ion battery 3.7V/2300mAh
12. Speaker/microphone socket: Connection option for external accessories (e.g. headsets), compatible with Maas headsets, speaker mikes etc. with "K" plug or original Kenwood accessories. If you do not use any accessories, please close the socket with the cover.
13. Micro USB socket: The radio battery can also be charged via USB.

### **Turn on/off and adjust volume**

Turn the power/volume dial clockwise to turn on the radio.

Rotate the control clockwise or counterclockwise to adjust the volume as needed.

Turn the control counterclockwise until you hear a mechanical “click” to turn off the radio.

### **Send**

To communicate with each other, all radios in your group must be set to the same channel.

Briefly press the monitor button to activate the monitor function.

This way you can check whether the channel is busy.

Then press the PTT button to send and release the PTT button to receive.

During radio communication, only one partner can speak at a time. Therefore, you must not transmit yourself when you hear a partner. Send as little as possible to keep the channel clear.

A lot of power is consumed when sending. Therefore, you should keep your airtime as short as possible so that the battery lasts longer. If you are unable to reach a partner that you normally have no problem receiving, they may be using CTCSS tones or DCS codes.

### **Monitor**

The Monitor function allows you to temporarily deactivate the squelch to receive signals that are too weak to be heard when the squelch is activated. Briefly press the monitor button to activate or deactivate the function.

## **Search function**

Press the menu button for about 3 seconds to start scanning. The radio then searches all channels, starting with the current channel.

An arrow running from left to right will appear on the radio display (upward search). You can use the UP/DOWN buttons to reverse the search direction (downward search).

As soon as a signal is found, the search stops on the occupied channel. With the optionally available programming software PRG-10 you can select three different search modes.

The default mode is “Carrier”. It looks for carrier signals and stops when one is found.

If the signal disappears, the search will automatically resume after about seven seconds.

By pressing the PTT button you end the scan and the radio transmits on the channel used.

To start the search again, press the menu button again for 3 seconds.

## **VOX**


Thanks to the VOX function, hands-free calling is possible with the PT-375. Simply speak into the microphone and the radio will automatically switch to transmit without having to press the PTT button.

The sensitivity of the VOX can be adjusted in ten levels (OFF, 1... 9) using the programming software or the radio's menu. “OFF” means the VOX function is turned off; “1” is the lowest sensitivity level of VOX and “9” is the highest.

## service

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To set the desired sensitivity of VOX via the radio's menu, proceed as follows: Briefly press the menu button.

Now press the monitor button twice. The sensitivity is shown on the display  displayed. With the

You can now set the desired sensitivity from 0 to 9 using the UP/DOWN buttons.



Confirm the setting by pressing the PTT button or wait about three seconds.

A notice: Please note that the VOX function is of limited use in noisy environments or with background noise.

### Voice prompts

The PT-375 has a voice announcement function: This informs you about every operating step or selection you make on the radio. To activate or deactivate the voice announcement, follow these steps:

Briefly press the menu button.

Now press the monitor button three times. If voice prompt is activated, the display will show:  and then  shows when voice prompt is disabled.

The function can be activated and deactivated using the UP/DOWN buttons.

Confirm the setting by pressing the PTT button or wait about three seconds.

The voice announcement function can also be activated or deactivated via the optional programming software.

### Squelch

The squelch suppresses annoying noise on free channels.

The PT-375 has ten different squelch levels: "0" means





indicates that the squelch is permanently open; Levels “1” to “9” are different levels of squelch. By default, the squelch on the PT-375 is set to level “5”. The levels can be adjusted using the optional programming software or via the radio menu. Do not set the squelch level too high, otherwise you may not be able to receive weaker signals. On the other hand, a level that is too low can open the squelch even though there is no signal present.

The squelch must be set to close when no signals are present.

The squelch must be set without signal reception. Method:

Briefly press the menu button.

Press the monitor button once.  is shown on the display. Use the  UP/DOWN buttons to adjust squelch levels.



Confirm the setting by pressing the PTT button or wait about three seconds.

### Key tones



With this feature, the PT-375 will emit a confirmation beep every time a key is pressed.

To enable or disable key tones, follow these steps:

Briefly press the menu button.

Press the monitor button five times until  appears on the .

Enable or disable key tones using the UP/DOWN buttons.

 = ON;  = OFF.

Confirm the setting by pressing the PTT button or wait about three seconds.

## service

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### **recharge battery**

The PT-375 is equipped with a 3.7V/2300mAh lithium-ion battery.

The battery can be charged on the radio or separately. Place the radio in the larger holder on the desktop charger or the battery alone in the smaller holder.

Plug the power adapter into the socket and insert the charging plug of the power adapter into the DC socket of the table charger.

It takes five to six hours for the battery to fully charge. To achieve maximum battery life, it is recommended to charge the battery when the PT-375 is turned off.

Using any charger other than the one provided may result in damage to your radio or battery, including explosion, fire and personal injury. You can also charge the battery by connecting the included USB cable to the micro USB port on the radio.

Then the LED indicator on the front of the radio lights up red while charging and turns off once the battery is fully charged.

When you turn on the radio and then connect the micro USB cable, the display will show the battery level while the battery is charging, just like you would with a smartphone.


The battery saving function can reduce power consumption by up to 50 percent. When the feature is turned on, it will automatically activate if the radio does not receive a signal for more than seven seconds.

### **power saving mode**

The energy saving mode can be used to reduce power consumption. The feature is enabled by default.

The energy saving mode can be deactivated or reactivated. Enter the radio menu and do the following:


Briefly press the menu button. Press the monitor button four times.

When the energy saving mode is activated, the display shows:  and then displays or when the energy saving mode is deactivated.

The energy saving mode can also be activated and deactivated via the programming software.

### **Adjust the brightness of the LED display**

Briefly press the menu button.

The display shows the current brightness level with the symbol  at. Use the UP/DOWN buttons to set the desired brightness (from “1” to “4”).

Confirm the setting with the PTT button or by waiting about three seconds.

### **Checking the firmware version**

To view the radio's firmware version, follow these steps:

Briefly press the menu button. Press the monitor button six times.

The firmware version is shown on the display.

## Error handling

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<b>problem</b>	<b>Caused</b>	<b>Fix</b>
Radio can be used do not turn on	Battery is possible- discharged wisely or not installed correctly <small>latated</small>	Charge the battery or check the seat
Radio switches shortly after it turned on was off	Battery discharged	charge the battery
Battery is not charging	Battery is not connected correctly or incorrect Installed	Contact or the correct position of the Check batteries
radio receives no signals	Reception location is heavily shielded Volume is too low Incorrect CTCSS Tone or DCS code	Change location  Increase volume  Check that the CTCSS tone or DCS code that of the communication partner matches.
Radio hisses permanently	Monitor function is activated	Monitor function deactivate
VOX starts the transmission unintentionally	VOX sensitivity too high	VOX sensitivity reduce
Very loud talking required, so that the VOX switches to transmit	VOX sensitivity too low	VOX sensitivity increase

## Error handling

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<b>problem</b>	<b>Caused</b>	<b>Fix</b>
communication not possible	Wrong channel  Distance too great Incorrect CTCSS Tone or DCS code	Same channel as communication choose partner Change location Check that the CTCSS tone or DCS code that of the communication partner matches
Reception is disturbed or choppy	Signal is very weak Distance too great Channel is also used by others Disturbances caused by their devices	Monitor function activate Change location Change channel  Change location
Battery life too low	Battery life exceeded Send at high Performance	Battery through one replace new one transmission power reduce
radio behaves doesn't feel normal		Reset the radio device required

## Technical data

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### Generally

frequency	446.00625-446.19375 MHz MHz (PMR446)
channels	99 (56 pre-programmed)
operating temperatur	- 20°C...+55°C
Operating voltage	3.7V
Operating mode	simplex
Dimensions	126mm × 57mm × 27mm (without antenna) 142g
Weight	(with battery)
Antenna impedance	50Ω
Duty Cycle	5/5/90%

### Channel

Frequency stability	±2.5 ppm
Output power	≤500mW (ERP)
Max. frequency deviation	≤2.5kHz
Audio distortions	≤3%
Adjacent channel performance	<60dB
Secondary emissions	Meets the legal requirements
occupied bandwidth	Meets the legal requirements

### Recipient

sensitivity	<0.2 μV@20 dB SINAD
Audio distortions	≤3%
Transmission range	300Hz...3kHz



## Channel table

Channel frequency No. MHz	CTCSS/ DCS	compatible	channel
1	446.0062594.8Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	1
2	446.0937588.5Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	2
3	446.03125103.5Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	3
4	446.0687579.7Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	4
5	446.04375118.8Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	5
6	446.01875123.0Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	6
7	446.08125127.3Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	7
8	446.0562585.4Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	8
9	446.00625107.2Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	9
10	446.09375110.9Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	10
11	446.03125114.8Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	11
12	446.0687582.5Hz	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	12
13	446.04375D132N	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	13
14	446.01875D155N	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	14
15	446.08125D134N	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	15
16	446.05625D243N	MaasPT666/KenwoodTK-3401/3501/3701/UBZ-LJ9(analog)	16
17	446.1062594.8Hz	KenwoodUBZ-LJ9(analog)	17
18	446.1937588.5Hz	KenwoodUBZ-LJ9(analog)	18
19	446.13125103.5Hz	KenwoodUBZ-LJ9(analog)	19
20	446.1687579.7Hz	KenwoodUBZ-LJ9(analog)	20
21	446.14375118.8Hz	KenwoodUBZ-LJ9(analog)	21
22	446.11875123.0Hz	KenwoodUBZ-LJ9(analog)	22
23	446.18125127.3Hz	KenwoodUBZ-LJ9(analog)	23
24	446.1562585.4Hz	KenwoodUBZ-LJ9(analog)	24
25	446.10625107.2Hz	KenwoodUBZ-LJ9(analog)	25
26	446.19375110.9Hz	KenwoodUBZ-LJ9(analog)	26
27	446.13125114.8Hz	KenwoodUBZ-LJ9(analog)	27
28	446.1687582.5Hz	KenwoodUBZ-LJ9(analog)	28
29	446.14375D132N	KenwoodUBZ-LJ9(analog)	29
30	446.11875D155N	KenwoodUBZ-LJ9(analog)	30
31	446.18125D134N	KenwoodUBZ-LJ9(analog)	31
32	446.15625D243N	KenwoodUBZ-LJ9(analog)	32
33	not documented		
34	not documented		
35	not documented		
36	not documented		
37	not documented		



## Channel table

Channel frequency No. MHz	CTCSS/ DCS	compatible	channel
<u>38</u>	not documented		
<u>39</u>	not documented		
<u>40</u>	not documented		
41	446.00625OFF	WintecLP-4502+	1
42	446.01875OFF	WintecLP-4502+	2
43	446.03125OFF	WintecLP-4502+	3
44	446.04375OFF	WintecLP-4502+	4
45	446.05625OFF	WintecLP-4502+	5
46	446.06875OFF	WintecLP-4502+	6
47	446.08125OFF	WintecLP-4502+	7
48	446.09375OFF	WintecLP-4502+	8
49	446.10625OFF	WintecLP-4502+	9
50	446.11875OFF	WintecLP-4502+	10
51	446.13125OFF	WintecLP-4502+	11
52	446.14375OFF	WintecLP-4502+	12
53	446.15625OFF	WintecLP-4502+	13
54	446.16875OFF	WintecLP-4502+	14
55	446.18125OFF	WintecLP-4502+	15
56	446.19375OFF	WintecLP-4502+	16
<u>57</u>	not documented		
<u>58</u>	not documented		
<u>59</u>	not documented		
<u>60</u>	not documented		
61	446.00625OFF	MotorolaTseries(8channels)	1
62	446.01875OFF	MotorolaTseries(8channels)	2
63	446.03125OFF	MotorolaTseries(8channels)	3
64	446.04375OFF	MotorolaTseries(8channels)	4
65	446.05625OFF	MotorolaTseries(8channels)	5
66	446.06875OFF	MotorolaTseries(8channels)	6
67	446.08125OFF	MotorolaTseries(8channels)	7
68	446.09375OFF	MotorolaTseries(8channels)	8







## **Maas Elektronik**

Peter Maas

Heppendorfer Str. 23 · 50189 Elsdorf-Berrendorf Tel.  
(02274) 9387-0 · Fax (02274) 9387-31

[info@maas-elektronik.com](mailto:info@maas-elektronik.com)

[www.maas-elektronik.com](http://www.maas-elektronik.com)