

Radioddity PR-T6 Two-Way Radio



Radioddity PR-T6 Two Way Radio User Manual

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Radioddity PR-T6 Two-Way Radio



Product Information

Specifications:

- Model: PR-T6 PMR EU
- Frequency Band: PMR446
- Transmission Power: 500mW
- Bandwidth: 12.5 kHz
- Maximum Transmission Time Limit: 180 seconds
- Antenna: Fixed
- No registration or fees are required

Product Usage Instructions:

Coverage

- The PR-T6 PMR EU offers coverage on 16 PMR446 frequencies. Please refer to the frequency chart for details.

Recharging the Battery

- To recharge the Li-Ion battery pack 'LB-T22', place the transceiver in the desktop charger cradle or connect the wall adapter to the correct socket on the radio.

- A full charge takes about 5 hours. Remember to detach the wall adapter or remove the radio from the charger cradle after charging.

Installing and Removing Belt Clips

- The belt clip allows you to attach the radio to your belt.
- Follow the provided illustration to remove or install the belt clip. Remember to remove the clip to access the battery.

Removing/Installing the Battery Pack

- Follow the instructions in the user manual to safely remove or install the battery pack of the PR-T6 PMR EU.

Main Controls and Parts

1. Antenna
2. LCD Display
3. UP button – Volume control and menu settings
4. /MENU – Access menu settings and activate keypad lock
5. /CALL – Send a call and turn on/off the radio
6. DOWN button – Volume control and menu settings

LCD Display Features

- Scan Indicator
- Activate VOX function
- Dual Channel Monitor
- Select the DCS/CTCSS squelch method
- Battery Indicator
- Emergency Alert Function

Frequently Asked Questions

Q: How long does it take to charge the battery fully?

A: A full charge takes about 5 hours. Make sure to detach the charger after this time.

Q: Can I use this product in non-EU countries?

A: While no registration or fees are required, use restrictions may apply in some non-EU countries. Refer to the Restrictions on the use chart for more information.

Q: How many frequencies does the PR-T6 PMR EU cover?

A: The PR-T6 PMR EU covers 16 PMR446 frequencies. Refer to the frequency chart for details.

- Thanks for choosing Radioddity! PR-T6 is an FM two-way radio transceiver suitable for use in the 446 private mobile radio service (PMR446). Programmed with the 16 PMR446 frequencies, Max Transmission power of 500 mW, Bandwidth 12.5 kHz, Maximum transmission time limit of 180 seconds, fixed antenna, and no registration or fees. but restrictions on use may apply in some non-EU countries. For further information, we suggest you look at the Restrictions on the Use” chart.

ATTENTION!

- Before using this product, read the RF Energy Exposure and Product Safety Guide that ships with the radio which contains instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulations.
Radioddity PR-T6 is a multi-task PMR446 transceiver.
- Combining the latest technology in radio communication along with a sturdy mechanical frame, PR-T6 is the ideal and effective solution for professionals who need to stay in touch with the working team (in construction sites, buildings, shows, trade fairs or hotels) or for leisure users that just want to keep up with friends and family.

Coverage

- The maximum range depends on terrain conditions and is obtained during use in an open space.
- The only limitation to the maximum possible range is 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 a mountain, the coverage can be 10 Km.

Frequency Chart

Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)	Ch.	Freq. (MHz)
1	446.00625	5	446.05625	9	446.10625	13	446.15625
2	446.01875	6	446.06875	10	446.11875	14	446.16875
3	446.03125	7	446.08125	11	446.13125	15	446.18125
4	446.04375	8	446.09375	12	446.14375	16	446.19375

Main features

- 16 PMR446 Channels
- 2 Channels Watch
- Channel Monitor
- 155 Sub-Codes (50 CTCSS codes/ 105 DCS codes)
- Hands-Free Operation (VOX)
- Roger Beep Tone

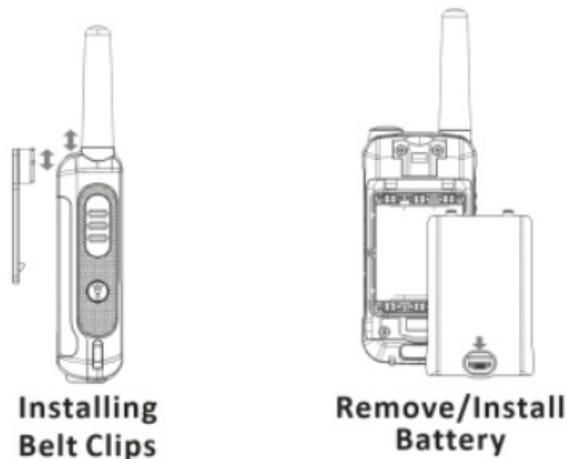
- Battery Level Meter
- Battery/Power Saver
- Low Battery Audible Alert
- Output power: 20.5W
- Sub-Codes Scan and Store
- Channel Scan Function
- 10 Selectable Call Tone Alerts
- Call Alert
- Keypad Lock
- Emergency Strobe Light
- Backlit LCD Display
- TOT (Time out timer)
- Range may vary depending on environmental and/or topographical conditions.

Recharging the Li-Ion battery pack 'LB-T22

- Place your transceiver in the desktop charger cradle or connect the wall adapter to the correct socket on the radio.
- Recharge of the Li-Ion battery is managed by a radio processor and the battery status can be checked by the icon on the screen and by seeing it on the desktop charger:
- Charging status is indicated by the LED on the desktop charger and by the flashing battery icon on the radio display.
- When charging is complete, the LED will be off and the battery icon on the screen will be full of bars

Recharge NI-MH Batteries (3 x AA, Optional)

- Place your transceiver in the desktop charger cradle or connect the wall adapter to the correct socket on the radio.
- A full charge takes about 5 hours. We suggest you detach the wall adapter from the radio or remove the radio from the desktop charger cradle after 5 hours.
- The battery icon on the radio display will flash during the entire charging



- process, as well as the red LED, will be on the desktop charger.

Installing and Removing Belt Clips

- With the belt clip, you can easily attach the radio to the belt. However, the belt clip must be removed to install or replace the battery.
- To remove the belt clip, follow the illustration. Fasten the clip into the slot on the unit in the radio's rear rail until it snaps into the square.

Removing/Installing the Battery Pack





Remove

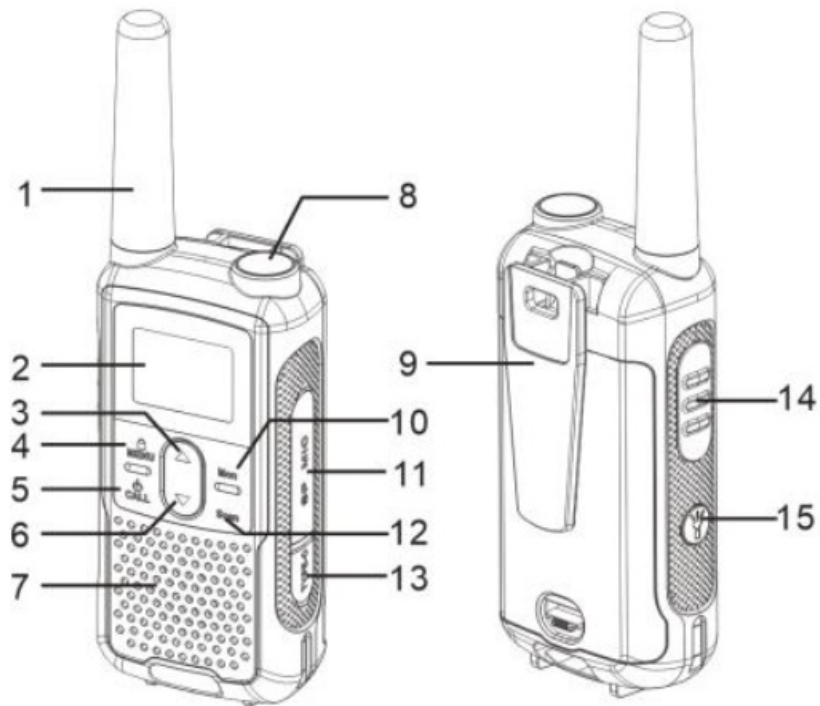
1. Remove the belt clip as previously described.
2. Open the battery compartment as shown in the figure;
3. Remove the battery pack from the device;
4. Snap the belt clip back into place.
5. Close the battery compartment with the cover and put the belt clip back in place.



Install

1. Remove the belt clip as described in the previous paragraph.
2. Insert the battery pack into the appropriate compartment of the device.
3. Close the battery compartment with the cover and put the belt clip back in place

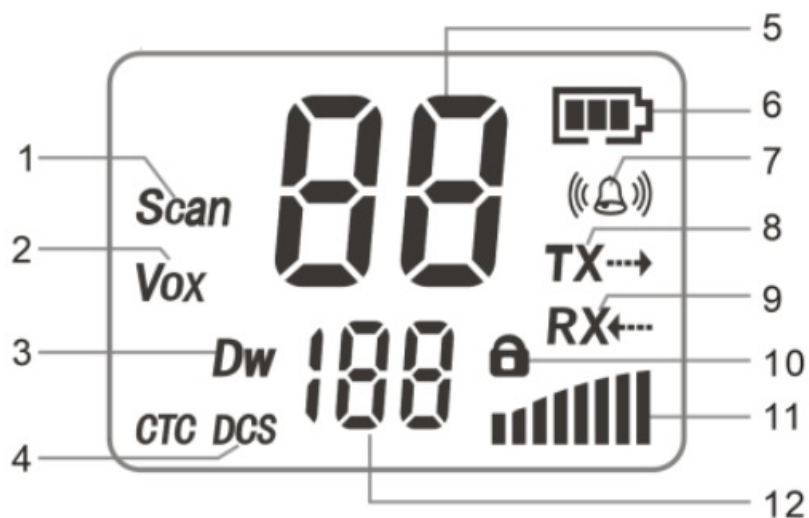
Main controls and parts of the radio

1. Antenna
2. LCD Display
3.  UP button – Press to increase the volume. Menu mode to change settings in MENU.
4.  MENU- Press this control to enter the radio MENU. If you keep it pressed for about 3 seconds, the keypad lock is activated.
5.  CALL – To send a call to the selected channel. keep pressed to turn on/off the radio.
6.  DOWN button – Press to reduce the volume. menu mode to change settings in MENU.



- 7. Speaker and Built-in microphone
- 8. LED Flashlight
- 9. Belt Clip
- 10. MONI button: Keep pressed to activate the Monitor function (for weak signal monitoring).
- 11. SPK | MIC (under the protective cover) – To connect to external audio devices such as microphones, headphones, etc
- 12.  SCAN button – Press this button once to activate SCAN.
- 13. USB port for the recharge of the radio
- 14. PTT button (Push-To-Talk)
- 15.  LAMP/ Emergency button – When the radio is switched on, press shortly to turn on/off the LED flashlight. keep pressed to turn on/off the emergency alerts.

LCD DISPLAY







- 1. Scan Indicator
- 2. Activate the VOX function

3. Dual Channel Monitor
4. Select the DCS/CTCSS type of squelch method
5. Channel (1-16)
6. Battery Indicator
7. Emergency alert function activated
8. Transmit Status
9. Receive Status
10. Keypad Lock
11. Transmit power indicator. Low power only in PMR mode
12. Displays the set CTCSS tone or DCS code (CTCSS: 1- 50; DCS: 1-105)





Basic Operations

To get the most out of your new radio, read this reference guide completely before attempting to operate the unit.

Power on/off and volume adjustment



- To turn the radio on, keep pressing the /CALL button.
- To adjust the volume level as you prefer, press the  or  button.
- In case the radio does not pick up any signal, activate momentarily the Monitor function that allows to detection also weak signals.
- Then, adjust the volume to the desired level.
- To turn the radio off, keep pressing the /CALL button until a switch-off tone is heard.

Keypad Lock




- To avoid accidentally changing the radio settings, press the /MENU button for 3 seconds.
- The icon  will appear on the display. [PTT],  [/CALL] and [MONI] keys will still be active. Repeat the same procedure to unlock the keypad.

Talking on Your Radio



To talk to others using the radio.

1. Press and hold the [PTT] button and speak in a clear, normal voice about 2-3 inches away from the microphone.
 - While you are transmitting, the TX  icon appears on the display. To avoid cutting off the first part of your transmission, pause slightly after pressing the [PTT] button before you start talking.
2. When you have finished speaking, release the [PTT] button. You can now receive incoming calls. While receiving, RX  displays.



Monitor Mode Feature

- Your radio allows you to listen for weak signals on the current channel at the press of a key. To turn on Monitor mode: Press the [MONI] button to activate the monitor function. The receiver circuit stays open, and both noise and weak signals can be heard.
- The RX  icon blinks. To turn off Monitor mode: Press the [MONI] button again to return to normal mode.  and the RX  icon stops blinking and disappears.


Channel Scanning




- PR-T6 can automatically search for signals throughout the PMR bands by scanning, i.e. selecting the channels in rapid sequence. When a signal is detected, the scanning pauses on that channel and you can transmit by pushing [PTT]. If you press [PTT] during scanning you can transmit on the channel from which the scanning started. The scroll buttons allow you to change the direction of scanning (from lower channels to higher ones or vice versa) and therefore to skip communications that are of no interest.
- Press briefly the button /SCAN to start scanning.
- If you want to stop it, press again /SCAN. Your transceiver will go back to the channel from which the scanning originally started.

Scanning Sub-Codes


- Press and hold /the SCAN button to enter the Sub-Codes scanning.
- A flashing “CTC/DCS” will be in the left status display to indicate the radio is in Sub-Codes scanning mode.
- In this mode, the lower display will cycle through the Sub-Codes as they are being tested. Once the bits of the received Privacy code are determined, the “CTC/DCS” indicator will stop flashing.
- Press the [PTT] button to save the scanned tone into memory.
- During scanning, press and hold /SCAN button to exit Sub-Code scanning.

Using the Flashlight


- You can use this radio in an emergency. If you press  the button, the radio turns on the high-intensity LED flashlight on your radio.
- Your radio operates normally when the emergency strobe is activated.

1. Press the  button once, and it will turn on continuously. (Always On mode)
2. Then, press  the button once, and the Strobe Light emits the emergency signal. (Strobe emergency mode)
3. And then, press  the button once, the light will be turned off.

Emergency Alert

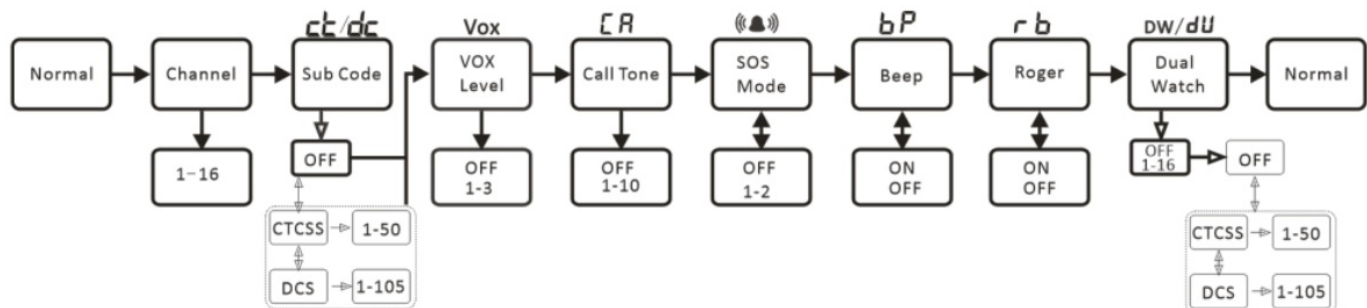
- The Emergency Alert feature can be used to signal members in your group for help. The emergency alarm function is activated by menu operation.
- To activate the emergency alert function, press and hold the  button for 3 seconds. The radio will send out a

loud siren sound and the flashlight will flash.

- Press the  button to exit the emergency alert function.






WARNING: The Emergency Alert feature should only be used in the event of an actual emergency.

Menu Options









Selecting the Channel

The channel is the frequency of the radio used to transmit. Your radio has 16 channels and 155 Sub-Codes you can use to talk to others. To speak to someone, both your radios must be set to the same channel and Privacy code.

1. Press and hold the /CALL button until the radio is turned on.
2. Press /the MENU button until the channel number starts to flash.
3. Press or to change the channel. A long press on these keys allows you to scroll through the channels rapidly to browse the codes.
4. Press the PTT button to exit the menu or /the MENU button to continue set-up.
5. If the /MENU button is locked, please press and hold the /MENU button for 3 seconds to unlock.





CTCSS/DCS tone selection

- Radioddity PR-T6 can be received in two modes.
- **Open traffic:** in this case, you will hear any communication transmitted on the selected channel;
- **Group mode CTCSS/DCS:** CTCSS/DCS 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 tone is received.
- To activate 1 of 50 different CTCSS/105 DCS tones in RX and TX

1. To select CTCSS/DCS, press /MENU twice until the display shows CTC or DCS (flashing on the lower left).
2. By pushing the  or  button the display will show CTCSS (CT blinking) or DCS (DC blinking); press /MENU to enter the CTCSS or DCS tones. Now select the desired tone with the  or  buttons.
3. Press the PTT button to exit the menu or /the MENU button to continue set-up.

VOX function







Radioddity PR-T6 enables hands-free conversations through the VOX function.

1. To activate the VOX function press the /MENU button 4 times and 'VOX' will appear on the display.
2. Use the  or  buttons to select the desired setting:
 1. **The VOX sensitivity can be set to 3 different levels:**
 2. high sensitivity (normal voice with no background noise)
 3. Medium Sensitivity for most environments low sensitivity (useful in very noisy areas or if you talk loudly)
3. Press the PTT button to exit the menu or /the MENU button to continue set-up.
4. To disable the VOX function follow the instructions above and select option off (OF: Disabled).


Setting and Transmitting Call Tones

- Radioddity PR-T6 can transmit different call tones to other radios in your group so you can alert them that you want to talk. Your radio has 10 call tones for you to choose from.

To select the call tones:

1. Press the /MENU button 5 times and  will appear on the display.
 2. Press  or  to change and listen to the call tone.
 3. Press the PTT button to exit the menu or /the MENU button to continue set-up.
- To disable the Call Tones follow the instructions above and select option off (OF: Disabled).
 - To transmit your call tone to other radios, set up the same channel and Sub-Code on your radio and press the /CALL button.

Emergency alarm type


- With the emergency alert feature, you can signal to your group members that you need help. The alarm signal can only be signalled that you need help by pressing and holding  the button after the emergency alarm function of the PR-T6 is activated.

Select an emergency alert type:

1. To activate the emergency alert function press the /MENU button 6 times until the display shows .
2. Use the or buttons to select the desired setting:





oF: Disabled

1. Local alarm, the radio itself emits an alarm sound;

2. Send an alarm tone on the current channel to signal to group members that you need help.
3. Press the PTT button to exit the menu or /the MENU button to continue set-up.
 - **WARNING:** The Distress Alert feature should only be used in a true emergency. If the receiving group does not respond to the distress signal, Radioddity will not assume any responsibility.

Keypad beep





To deactivate the keypad beep, follow these steps.

1. Press the /MENU button 7 times until 'bP on' is displayed.
2. Use the  or  buttons until the display shows 'bP on'.
3. Press the PTT button to exit the menu or /the MENU button to continue set-up.
 - Now you won't hear any beep at the pressure of any button.

ROGER BEEP (End transmission tone)

When your transmission is finished (PTT released), Radioddity PR-T6 gives out a sound that indicates to the other party that s/he can start talking. This function is enabled by default.









To deactivate it:

1. Press the /MENU button 8 times until the display shows r b on.
2. Using the buttons  or  select "off" and r b of will be displayed;
3. Press the PTT button to exit the menu or /the MENU button to continue set-up.

Dual Watch Mode

Your radio has a DUAL WATCH function, to enable users to scan 2 channels for any activity. The first channel will be the current channel setting and the second channel will be the selected channel on the.

To set another channel and start Dual Watch:

1. Press the /MENU button 9 times and until the display shows of du.
2. Using the buttons  select  the channel, then press /MENU.
3. Using the buttons  select  the CTCSS/DCS, then press /MENU.
4. The radio starts to Dual Watch.
 - The screen will alternate between a home channel and the Dual Channel Monitor channel.
 - **Note:** If you set the same channel and Sub-code as the current channel, Dual Watch doesn't work.
5. Press the /SCAN button to turn the Dual Watch mode OFF.

Maintenance

- Your PR-T6 was designed to fulfil any warranty obligations and to enjoy this product for many years.
- As for all the electronic devices, we recommend you follow this few suggestions:
- Do not attempt to open the unit. Non-expert handling of the unit may damage it and/or annul the warranty.
- When using a regulated power supply, take notice of the power voltage which must be 5V to avoid damage.
- High temperatures can shorten the life of electronic devices, and warp or melt certain plastics. Do not store the radio in dusty or dirty areas.
- Keep the Radio dry. Rainwater or dampness will corrode electronic circuits.
- If it appears that the Radio diffuses a peculiar smell or smoke, please shut off its power immediately and take off the charger or battery from the Radio.
- Do not transmit without an antenna.

EU Declaration of Conformity


- Radioddity and Pofung hereby declare that the radio equipment type listed in Technical Specifications complies with Directive 2014/53/EU. The full text of the EU Declaration of Conformity is available at the following link:
- <http://www.pofung.cn/download.asp?EnBigClassName=EU%20DOC>. Via your local Radioddity helpdesk, your dealer from where you purchased this radio or send an email to wangjianhui@Radioddityradio.com.
- This product is an FM two-way radio transceiver suitable for use in the 446 private mobile radio service(PMR446).
- This is a license-exempt service, but restrictions of use may apply in some non-EU countries.

Technical Specifications

General Part	
Frequency Range	446.00625- 446.19375 MHz (PMR446)
Channels	16 PMR446
Working temperature	-10(to +50(
Operation Voltage	DC 3.7 V \pm 10%
Operation Mode	Simplex
Dimensions	168mm×57mm×34.5mm (without Antenna)
Weight	150g (Battery pack included)
Antenna Impedance	50ohm
Category	B
Transmitter Part	
Frequency Stability	\pm 2.5ppm
RF Output Power	<500mW ERP
Max frequency deviation	<2.SKHz
Audio distortion	<3%
Adjacent Channel Power	<60dB
Receiver Part	
Receive Sensitivity	<0.2 μ V @20dB SINAD
Audio distortion	<3%
Audio response	300 Hz ~ 3 KHz

ATTENTION: conditions of use!

The band of frequencies on which this device operates is administrated by limitations and/or permissions for their usage. Consequently, in the EU Countries mentioned in the sheet, operators must consult the entrusted authorities. In particular, they must possess a license or a frequency assigned to them by their respective competent authority.

			
FR	DE	IT	NL
BE	LU	DK	IE
GB	GR	ES	PT
FI	AT	SE	PL
HU	CZ	CY	SI
SK	LV	LT	EE
BG	RO	MT	HR

- All articles displaying this symbol on the body, packaging or instruction manual of same, must not be thrown away into normal disposal bins but brought to specialised waste disposal centres.
- Here, the various materials will be divided by characteristics and recycles, thus making an important contribution to environmental protection.

EU Declaration of Conformity

In accordance with EU Directives and Regulations

SAIN3 LLC

Add: Room 1201-1 Mars space, no.366 heng'an road, hongshan district, wuhan, China

as the manufacturer, hereby declares under our sole responsibility that

product(s):PMR Radio

Model name: PR-T6

Equipment Directive 2014/53/EU:

Radio ETSI EN 300 296 V2.1.1

Article 3.2

EMC ETSI EN 301 489-1 V2.2.3

Article 3.1(b) ETSI EN 301 489-5 V2.2.1

Safety EN 62368-1:2014+A11:2017

Article 3.1(a)

Health EN 62209-2:2010

Article 3.1(a) EN50566:2017

The notified body Bay Area Compliance Labs Corp.(BACL) (EU Identification Number: 1313) performed a conformity assessment according to Annex III, Module B.

Signed on behalf of SAIN3 LLC

(Signature of authorized person)

Name:


Title: Manager

Date: 2023-08-27



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- <https://www.radioddity.com/>
- <https://www.facebook.com/radioddity>
- <https://www.youtube.com/c/Radioddityradio>

Documents / Resources

 <p>Two Way Radio</p> <p>PR-T6 PMR EU</p> <p>User Manual Benutzerhandbuch</p>	<p>Radioddity PR-T6 Two Way Radio [pdf] User Manual</p> <p>PR-T6 Two Way Radio, PR-T6, Two Way Radio, Way Radio, Radio</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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