



# Owners Manual

## PT504



19" Rack Mount AM/FM Digital Tuner  
w/ Auto Start Features & Wireless Remote

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## Forward

Thank you for your patronage. Your selection of this product fully displays your trust towards this company, and we are extremely pleased for being able to provide you with a satisfactory product. In order for you to obtain maximal result of this product. Kindly carefully read this User Manual as it will help you to understand various functions of this product and to obtain perfect audio effects.

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## Safety Warning




To avoid being electrocuted, do not open this equipment unless you are a professional technician.



Exposed part of the equipment which is not isolated contains dangerous voltage harmful to the body. Users are advised not to freely open the casing.



When breakdown appears and requires maintenance, please get qualified repair personnel to carry out servicing, or contact supplier of this unit. When special component marked  in the unit needs to be replaced, the replaced component must be the same in model and specifications with the original.

This equipment should not be exposed in water-soaked area; articles filled with liquid, such as flower vases, should not be put on top of the equipment.

## Features of this Unit

### Excellent Functions

- Luxury Aluminum and Fashionable Ultra Slim Panel Design.
- Full Function Micro-CPU Controlling System.
- Professional Digital HI-FI Stereo Tuner System, Excellent Sensitivity.
- Manual/Auto/Direct Radio Station Select Modes, Easier Operation.
- Unique Channel Overview Function, 60 Radio Stations Pre-set and Stored by CPU, Never Lose.
- 12-Hours: Clock Display, Timer Open/Sleep, 4 Alarms.
- Full Function Infrared Remote Control.

## Notice of Use

### ■ Safety Notice

- In the event of alien objects or liquid is found in the casing of the unit, Immediately pull the power plug and call for professional maintenance personnel for inspection before reuse.
- ! Non-professional personnel are not advised to open the casing of this unit to avoid electrocution.
- When abnormal situation is detected when the unit is working (such as smoke, extraordinary smell and noise being detected from inside the unit), pull the power plug immediately, and seek professional repair personnel to carry out servicing.



### ■ Power Notice

- Before operating this unit, please check that its voltage is the same as local voltage. Voltage of this unit is indicated on the power cable at the back.
- When this unit is not used for a long period, please remove the power plug of the unit from the power socket.
- While removing the power cable please grab the plug of the power cable instead of the lead. Avoid power cable being stepped on or squeezed. Do not forcefully twist the power cable.
- When it is necessary to change power cable of the unit, please seek service from qualified maintenance centers.



### ■ Safety Notice

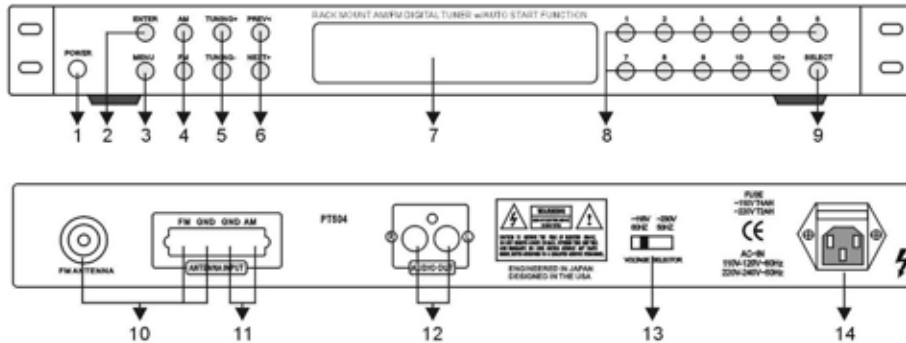
- This unit needs to be placed in well ventilated area to prevent overheating of internal parts which may shorten its lifespan. When it is placed on rack or inside a box, sufficiently large vent is required to increase heat sink.
- Do not place this unit near heat sources or allow it to be directly irradiated by sunlight, dusty places or areas with mechanical impact.
- ※ To avoid fire or electric shock, do not place the unit under humidity or allow it to be caught in the rain.
- Do not place articles on top of the unit as this will block the vents and affect heat sinking effect.
- Do not allow needles, coins and other metallic objects to fall into the unit and damage the unit.



## Setup of Panel & Back Panel Functions

The back inputs and outputs have been adjusted to perfect the quality of setup and integration. The company has made this unit stand alone when it comes to Professional Digital Tuners.

This Digital Graphic Tuner is using microcomputer technology, which not only confirms the perfect audio effect, but also makes the colorful graphic spectrum more beautiful. The perfect combination of technology and music will give you the best entertainment.



1. Power ON/OFF: Turn ON the power, the display on, then this machine is ready for use; Turn OFF the power, the machine stopped.
2. Enter key: Press it to adjust the functions
3. Menu Selector Key
4. AM/FM Selector: connect the AM/FM antenna to this jack.
5. Tuner tuning +/tuning- control
6. Tuner PREV</NEXT>: To search a channel tuner UP (CHANNEL+) or tuner DOWN (CHANNEL-). Press it and hold for two seconds above will enter AUTO search mode, and stop in an available station.
7. VFD DISPLAY
8. Tuner digital selector key
9. Tuner frequency immediate selector key
10. FM jack: connect the FM antenna to this jack.
11. AM jack: connect the AM antenna to this jack
12. L/R audio output: audio channel Left& Right output.
13. Voltage selector (115V/230V can be switched)
14. Power Supply socket

## Tuner Function Operation

Well connected the FM and AM antenna to the antenna jacks, connect with amplifier, then turn on the power, Select AM or FM.

Using AUTO SCAN (press and hold 2 seconds tuner + of tuner- ) function to search a station, then using manual search (press tuner + or tuner-, do not hold over then 2 seconds) to micro adjust the station to best effect.

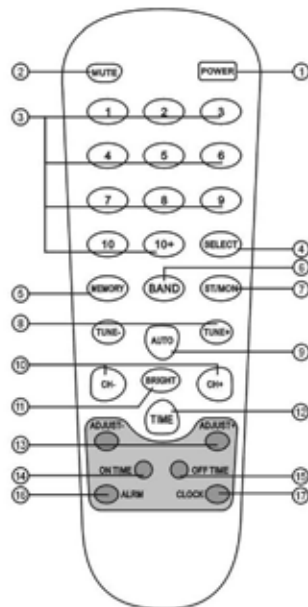
Some area where the signal is poor, please use manual search.

## Select Pre-setted Radio Station Directly

Press number buttons to enter the according pre-setted station directly.

- 10+ is used for selecting the number above 10. Press once 10+ and 5 is 15, press twice 10+ and 5 is 25. The total are 60 stations.

## Setup of Functions of remote control



1. POWER: Press this button to enter POWER ON/CLOCK /POWER OFF mode one after another
2. Mute Key
3. Number Buttons: Using for st SELECT & STORE
4. SELECT: Frequency direct select, press this button, the display will show "----" then enter the according number button to enter the radio station directly. For example: if you want to select a radio station which is located in FM 102.7 MHz, press "SELECT" then type number buttons "1,0,2,7," you can enter it directly.
5. Memory Button: Located a favorite station, select a number you want to store, then press "MEM" after the number the number flashing and the machine beeping once, means the station was saved.
6. Band selector: Press this button to change between AM/FM radio modes.
7. ST/MO: Stereo/Mono mode selector, during FM mode, press this button to change between STEREO and MONO to achieve a better audio effect.
8. TUNING-/TUNING+: Press these buttons to searching a DOWN or UP direction. Press it and hold on for 2 seconds above will enter auto searching mode, which will stop on a available radio station.
9. AUTO: Press this button can enter the stored channel quickly.
10. CH+/CH-: Press CH+ and CH- to select a channel UP/DOWN direction. Also can use this button to select a number to operate Store function.
11. BRIGHT: Press it to adjust the mode of VFD display
12. Time Modes Selector: Press this Button to select a time mode display.  
 ⌚ : Standard time mode  
 ALL: Alarm time mode  
 II: Sleep (Prewer OFF) time mode  
 II: Power ON time mode
13. ADJUST-/ADJUST+: Time adjust buttons, press "TIME" and select the time mode, then using these two buttons to adjust hour and minute to the right
14. ON TIME: Power ON time operation button
15. OFF TIME: Power OFF time operation button
16. ALRM: Alarm ON/OFF
17. CLOCK: Press this button to display the current time, press other function button to quit clock display

### Remote Controller Operation

1. Remote controller should be operated within 6 meter and the scope of 30° in front of receiver
2. There shouldn't have big obstacle between remote controller and machine.
3. If remote sensor is placed the position of irradiate directly by fierce light, it may be invalid. Remote sensor should be far away from the light.

## Notice

- Do not use alcohol, oil, or other corrosive liquid to clean it. Please using soft cloth only.
- Keeping this machine in flat and ventilated position. Avoiding direct sunshine, dusty, damp or high temperature environment.
- This machine will produce magnetic effect during working, keeping tapes away from it.
- Compare with the Malfunction FAQ part first when fault appeared.
- In order to avoid electric shock, Do not discover the machine by yourself. Asking help for experienced technician.

Accessories include: 1 machine, 1 remote controller, 1 user manual, 1 AM antenna, 1 FM antenna.

Do not miss the accessories when asking after-service.

## General Troubleshooting

Some times the malfunction is not serious, it is caused by incorrect operation, you can compare with following draft to erect the system.

If it doesn't work yet, remember to asking your nearest after-sale-center to repair it. Never try to repair it by yourself.

Phenomenon	Reason	Solution
No power supply after turn it on	<ul style="list-style-type: none"><li>● The plug hasn't be connect in order.</li><li>● Have turn the POWER ON</li></ul>	<ul style="list-style-type: none"><li>● Check the power wire and plug it again tightly.</li><li>● Press Power button to turn it on.</li></ul>
Have power supply index, but there're no any sound come out.	<ul style="list-style-type: none"><li>● Haven't been connected well</li><li>● Signal input mode mixed</li><li>● Master volume is in the minimum position</li><li>● In MUTE status</li></ul>	<ul style="list-style-type: none"><li>● Connect the units in right way</li><li>● Select the right input mode</li><li>● Turn up the master volume</li><li>● Press MUTE on the remote control to cancel mute status</li></ul>
No reaction for operation or abnormal displaying	<ul style="list-style-type: none"><li>● Encounter pulse interfering caused CPU problem</li></ul>	<ul style="list-style-type: none"><li>● Shut the system OFF and turn ON again minutes later.</li></ul>
No reaction for remote control operation.	<ul style="list-style-type: none"><li>● Battery problem</li><li>● Remote control hasn't aim at remote receiver</li><li>● There's barrier between remote control and system</li></ul>	<ul style="list-style-type: none"><li>● Change battery</li><li>● Aiming remote control to receiver window position on the system.</li><li>● Remove the barrier</li></ul>
Unusual noise	<ul style="list-style-type: none"><li>● Signal cable hasn't well connected.</li><li>● There're other machine working nearby. Such as generator, dryer...</li></ul>	<ul style="list-style-type: none"><li>● Connect the cable accordingly and strongly.</li><li>● Shut down the other machine.</li></ul>
Low sensitivity	<ul style="list-style-type: none"><li>● Antenna are hasn't well connected.</li><li>● In MONO mode</li></ul>	<ul style="list-style-type: none"><li>● Check/well connect/adjust the antenna.</li><li>● Select STEREO mode</li></ul>

If the machine still in malfunction status after you finished the aforesaid steps, you should asking a technician to repair it. Do remember never repair it by yourself.

## Major Technical Specifications

Frequency range: AM 530kHz-1620 kHz	Sensitivity: MW: $\leq 5\text{mV/m}$
FM: 87.5MHz-108MHz;	FM: $\leq 20\mu\text{V}$
Input Impedance: $1\text{K}\Omega$	Output power: 500mV rms
S/N rate: MW: $\geq 40\text{dB}$	Power consuming: 10W
FM: $\geq 45\text{dB}$	Power Supply: AC-115V/60Hz AC-230V/50Hz

### **Notice:**

- 1. Subject to Change without Notice.**
- 2. Above indices are for reference only.**



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