



PD504-Series Wireless Microphone UHF

Ref. nr.: 179.004; 179.006



INSTRUCTION MANUAL
GEBRUIKSAANWIJZING
BEDIENUNGSANLEITUNG
MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS
INSTRUKCJA OBSŁUGI

ENGLISH

Congratulations to the purchase of this Power Dynamics product. Please read this manual thoroughly prior to using the unit in order to benefit fully from all features.

Read the manual prior to using the unit. Follow the instructions in order not to invalidate the warranty. Take all precautions to avoid fire and/or electrical shock. Repairs must only be carried out by a qualified technician in order to avoid electrical shock. Keep the manual for future reference.

- Prior to using the unit, please ask advice from a specialist. When the unit is switched on for the first time, some smell may occur. This is normal and will disappear after a while.
- The unit contains voltage carrying parts. Therefore do NOT open the housing.
- Do not place metal objects or pour liquids into the unit. This may cause electrical shock and malfunction.
- Do not place the unit near heat sources such as radiators, etc. Do not place the unit on a vibrating surface. Do not cover the ventilation holes.
- The unit is not suitable for continuous use.
- Be careful with the mains lead and do not damage it. A faulty or damaged mains lead can cause electrical shock and malfunction.
- When unplugging the unit from a mains outlet, always pull the plug, never the lead.
- Do not plug or unplug the unit with wet hands.
- If the plug and/or the mains lead are damaged, they need to be replaced by a qualified technician.
- If the unit is damaged to such an extent that internal parts are visible, do NOT plug the unit into a mains outlet and DO NOT switch the unit on. Contact your dealer. Do NOT connect the unit to a rheostat or dimmer.
- To avoid fire and shock hazard, do not expose the unit to rain and moisture.
- All repairs should be carried out by a qualified technician only.
- Connect the unit to an earthed mains outlet (220-240Vac/50Hz) protected by a 10-16A fuse.
- During a thunderstorm or if the unit will not be used for a longer period of time, unplug it from the mains. The rule is: Unplug it from the mains when not in use.
- If the unit has not been used for a longer period of time, condensation may occur. Let the unit reach room temperature before you switch it on. Never use the unit in humid rooms or outdoors.
- To prevent accidents in companies, you must follow the applicable guide lines and follow the instructions.
- Do not repeatedly switch the fixture on and off. This shortens the life time.
- Keep the unit out of the reach of children. Do not leave the unit unattended.
- Do not use cleaning sprays to clean switches. The residues of these sprays cause deposits of dust and grease. In case of malfunction, always seek advice from a specialist.
- Do not force the controls.
- This unit is with speaker inside which can cause magnetic field. Keep this unit at least 60cm away from computer or TV.
- If this product have a built-in lead-acid rechargeable battery. Please recharge the battery every 3 months if you are not going to use the product for a long period of time. Otherwise the battery may be permanently damaged.
- If the battery is damaged please replace with same specifications battery. And dispose the damaged battery environment friendly.
- If the unit has fallen, always have it checked by a qualified technician before you switch the unit on again.
- Do not use chemicals to clean the unit. They damage the varnish. Only clean the unit with a dry cloth.
- Keep away from electronic equipment that may cause interference.
- Only use original spares for repairs, otherwise serious damage and/or dangerous radiation may occur.
- Switch the unit off prior to unplugging it from the mains and/or other equipment. Unplug all leads and cables prior to moving the unit.
- Make sure that the mains lead cannot be damaged when people walk on it. Check the mains lead before every use for damages and faults!
- The mains voltage is 220-240Vac/50Hz. Check if power outlet match. If you travel, make sure that the mains voltage of the country is suitable for this unit.
- Keep the original packing material so that you can transport the unit in safe conditions.



This mark attracts the attention of the user to high voltages that are present inside the housing and that are of sufficient magnitude to cause a shock hazard.



This mark attracts the attention of the user to important instructions that are contained in the manual and that he should read and adhere to.

The unit has been certified CE. It is prohibited to make any changes to the unit. They would invalidate the CE certificate and their guarantee!

NOTE: To make sure that the unit will function normally, it must be used in rooms with a temperature between 5°C/41°F and 35°C/95°F.



Electric products must not be put into household waste. Please bring them to a recycling centre. Ask your local authorities or your dealer about the way to proceed. The specifications are typical. The actual values can slightly change from one unit to the other. Specifications can be changed without prior notice.

Do not attempt to make any repairs yourself. This would invalid your warranty. Do not make any changes to the unit. This would also invalid your warranty. The warranty is not applicable in case of accidents or damages caused by inappropriate use or disrespect of the warnings contained in this manual. Power Dynamics cannot be held responsible for personal injuries caused by a disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form.

UNPACKING INSTRUCTION

CAUTION! Immediately upon receiving the product, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damage from shipping or the package itself shows signs of mishandling. Save the package and all packing materials. In the event that the product must be returned to the factory, it is important that the product be returned in the original factory box and packing.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

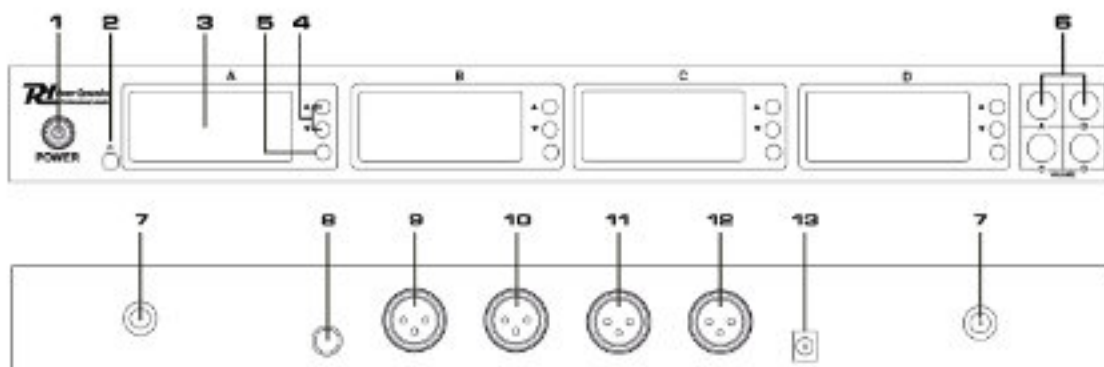
POWERSUPPLY

On the label on the backside of the product is indicated on this type of power supply must be connected. Check that the mains voltage corresponds to this, all other voltages than specified, the light effect can be irreparably damaged. The product must also be directly connected to the mains and may be used. No dimmer or adjustable power supply.



Always connect the device to a protected circuit (circuit breaker or fuse). Make sure the device has an appropriate electrical ground to avoid the risk of electrocution or fire.

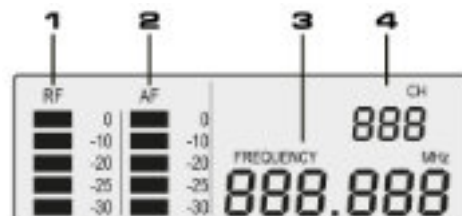
OVERVIEW



1. Power ON/OFF
2. IR Sensor
3. Display
4. Channel selection buttons
5. IR learn button
6. Volume controller for 4 microphones channels
7. BNC antenna connector
8. Mix output 6.3mm Jack connector
9. Balanced XLR output microphone channel D
10. Balanced XLR output microphone channel C
11. Balanced XLR output microphone channel B
12. Balanced XLR output microphone channel A
13. DC power Jack for external power supply (12V DC 1000mA)

DISPLAY

1. RF Signal Strength
Number of bars corresponds to RF signal strength.
2. AF Audiosignal Strength
Number of bars corresponds to AF audiosignal strength.
3. Radio frequency
4. Transmission channel



OPERATION

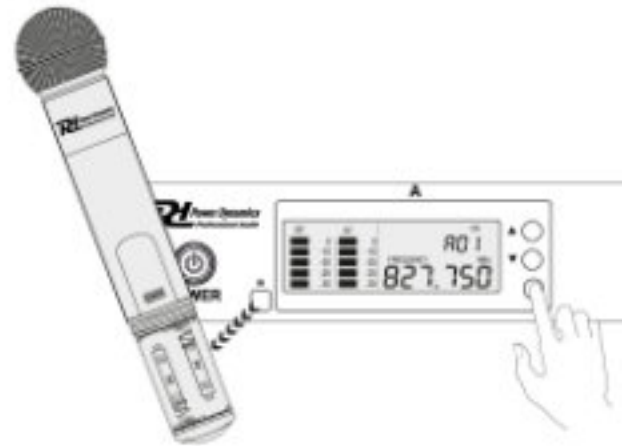
- Switch on the receiver with the power switch.
- Screw or open the battery cover of microphone and put new or full charged battery inside. Press the power switch on the microphone for 2 seconds, to switch on.

Select your transmission channel, with the ▲ and ▼ button on the receiver. Hold the IR sensor of microphone close to the IR sensor of the receiver. Press shortly on the **SET** button of the respective channel to synchronize the microphone.

- When the receiver and the microphone have been set to the same transmission channel, the RF bargraph on the receiver's display will indicate that a radio signal is being received.

Noted: how more numbers of bars are displayed, how better is the reception.

- Screw or close the battery cover onto the microphone again.



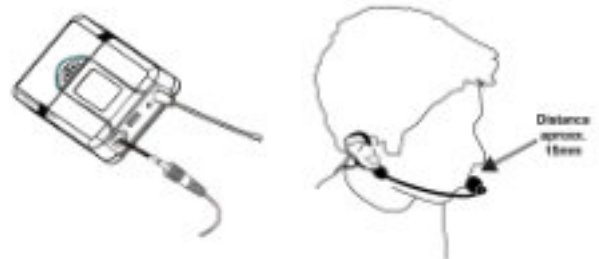
For optimum receiving:

- Reposition the receiver so there is nothing obstructing a line of sight to the microphones (including the audience).
- Avoid placing microphone and receiver where metal or other dense materials may be present.
- Place the receiver on the top of the equipment rack.
- Remove nearby sources of wireless interference, such as cell phones, two-way radios, computers, media players, Wi-Fi devices, and digital signal processors.
- Charge or replace the microphone battery.
- Keep microphones more than two meters (6 feet) from each other.
- Keep the microphones and receiver more than 5 meters (16 feet) apart.
- During sound check, mark trouble spots and ask presenters or performers to avoid those area.

HEADSET MICROPHONE

Connect the connector of supplied headset microphone to the connecting jack of bodypack.

Position the headset microphone approx. 15 mm (1/2 inch) from the opening of your mouth.



**RADIO FREQUENCY / RADIO FREQUENTIE / FUNKFREQUENZEN /
FRECUENCIA DE RADIO / FRÉQUENCE RADIO / CZĘSTOTLIWOŚĆ
RADIOWA**

Channel	European Frequency				Australia / New Zealand Frequency			
	MIC A	MIC B	MIC C	MIC D	MIC A	MIC B	MIC C	MIC D
1	827.750	823.500	830.250	824.750	579.700	554.050	570.400	561.650
2	830.250	824.750	827.750	823.500	570.400	561.650	579.700	554.050
3	827.900	823.800	830.300	825.750	568.500	554.300	573.750	557.050
4	830.300	825.750	827.900	823.800	573.750	557.050	568.500	554.300
5	864.100	825.500	864.900	831.650	569.450	558.100	569.700	558.850
6	864.900	831.650	864.100	825.500	569.700	558.850	569.450	558.100
7	831.900	824.350	863.550	826.550	571.950	560.350	572.500	553.500
8	863.550	826.550	831.900	824.350	572.500	553.500	571.950	560.350
9	830.400	824.550	863.750	826.300	566.550	554.150	573.250	559.050
10	863.750	826.300	830.400	824.550	573.250	559.050	566.550	554.150
11	828.450	823.950	864.750	825.600	568.350	555.300	572.950	557.950
12	864.750	825.600	828.450	823.950	572.950	557.950	568.350	555.300
13	827.500	824.250	864.250	831.300	569.500	555.550	570.050	553.350
14	864.250	831.300	827.500	824.250	570.050	553.350	569.500	555.550
15	828.650	827.000	863.250	830.350	575.000	551.200	569.950	552.800
16	863.250	830.350	828.650	827.000	569.950	552.800	575.000	551.200
17	831.750	828.800	863.450	826.050	580.950	558.350	571.650	565.950
18	863.450	826.050	831.750	828.800	571.650	565.950	580.950	558.350
19	824.700	831.500	826.800	829.050	569.750	558.600	575.500	561.350
20	826.800	829.050	824.700	831.500	575.500	561.350	569.750	558.600
21	829.300	823.750	863.100	827.850	570.700	562.400	570.950	563.150
22	863.100	827.850	829.300	823.750	570.950	563.150	570.700	562.400
23	831.100	824.150	864.950	828.750	573.200	564.650	573.800	557.800
24	864.950	828.750	831.100	824.150	573.800	557.800	573.200	564.650
25	829.200	823.250	863.200	826.250	567.800	558.450	574.500	563.350
26	863.200	826.250	829.200	823.250	574.500	563.350	567.800	558.450
27	825.850	823.450	830.800	828.300	569.600	559.600	574.200	562.250
28	830.800	828.300	825.850	823.450	574.200	562.250	569.600	559.600
29	831.200	824.450	863.800	827.800	570.750	559.850	571.300	557.650
30	863.800	827.800	831.200	824.450	571.300	557.650	570.750	559.850
31	827.550	864.150	824.650	830.500	570.000	561.550	570.300	562.300
32	824.650	830.500	827.550	864.150	570.300	562.300	570.000	561.550
33	828.150	864.350	824.850	831.400	580.300	557.500	571.000	565.100
34	824.850	831.400	828.150	864.350	571.000	565.100	580.300	557.500
35	824.200	864.700	827.450	830.700	569.100	557.750	574.350	560.500
36	827.450	830.700	824.200	864.700	574.350	560.500	569.100	557.750
37	828.400	863.350	826.150	830.850	576.250	555.500	571.200	557.100
38	826.150	830.850	828.400	863.350	571.200	557.100	576.250	555.500
39	827.250	864.850	829.600	823.300	572.550	563.800	573.100	556.950
40	829.600	823.300	827.250	864.850	573.100	556.950	572.550	563.800
41	828.250	830.100	826.450	864.550	567.150	557.600	573.850	562.500
42	826.450	864.550	828.250	830.100	573.850	562.500	567.150	557.600
43	831.800	825.250	829.950	827.700	568.950	558.750	573.550	561.400
44	829.950	827.700	831.800	825.250	573.550	561.400	568.950	558.750
45	831.000	828.000	828.950	825.400	575.600	554.650	570.550	556.250
46	828.950	825.400	831.000	828.000	570.550	556.250	575.600	554.650
47	830.750	825.650	827.400	829.100	570.100	559.000	570.650	556.800
48	827.400	829.100	830.750	825.650	570.650	556.800	570.100	559.000
49	832.000	823.000	863.000	865.000	566.000	551.000	573.500	558.500
50	863.000	865.000	832.000	823.000	573.500	558.500	566.000	551.000

CLASS 1

CE 0700 

Frequency 823 Mhz – 832 Mhz A license to operate this equipment may be required in certain areas. Consult your national authority for possible requirements. Licensing of wireless microphone equipment is the user's responsibility and licensability depends on the user's classification, application and frequency. Tronios strongly urges the user to contact the appropriate telecommunications authority concerning proper licensing.

TECHNICAL SPECIFICATION / TECHNISCHE SPECIFICATIE / TECHNISCHE DATEN / ESPECIFICACIONES TÉCNICAS / SPÉCIFICATIONS TECHNIQUES / SPECYFIKACJA TECHNICZNA

	PD504H	PD504B
	179.004	179.006
Operating frequency EU:	823 – 832 Mhz / 863.000 - 865.000 Mhz Class 1	
Operating frequency NZ/AUS:	550 - 585Mhz	
RF output EU:	<10mW	
RF output NZ/AUS:	<100mW	
Frequency response:	60Hz - 18kHz	
Frequency stability:	<15ppm	
THD:	<1%	
Signal to noise ratio:	>97dB	
Power supply:	100-230VAC / 50-60Hz	
Dimensions:	235 x 420 x 44mm	
Weight:	1.7Kg	

	Handheld	Bodypack
Operating frequency:	823 - 832 Mhz / 863.000 - 865.000 Mhz Class 1	
Operating frequency NZ/AUS:	550 - 585Mhz	
Battery:	2x AA (handheld)	2x AA (bodypack)
Dimensions:	250 x ø 51mm	75 x 60 x 23mm
Weight:	0,4kg	0,2kg

The specifications are typical. The actual values can slightly change from one unit to the other. Specifications can be changed without prior notice.



tronios
Sound & Light

CE Declaration of Conformity

Manufacturer: Tronios B.V.
Bedrijvenpark Twente 415
7602KM Almelo
The Netherlands
Phone: +31(0)85-1053155

Product number: 179.004; 179.006

Product Description: PD504 Series Wireless UHF Microphone 4x50CH

Trade Name: POWER DYNAMICS

Regulatory Requirement: EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013
EN 62479:2010
EN 301489-1 V2.2.0
EN 301489-9 V2.1.1
EN 301357 V2.1.1

I hereby declare that the product meets the requirements stated in Directives 2014/35/EU and 2014/30/EU, RED Directive and conforms to the above mentioned Declarations.

Almelo,
18-04-2018

Name : M. Velders

Signature :

Specifications and design are subject to change without prior notice.

www.tronios.com

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