



[Home](#) » [Power Dynamics](#) » **Power Dynamics PD220 Wireless True Diversity System**

## Instruction Manual



### Contents [ [hide](#) ]

- [1 Power Dynamics PD220 Wireless True Diversity System](#)
- [2 OVERVIEW](#)
- [3 UNPACKING INSTRUCTION](#)
- [4 POWERSUPPLY](#)
- [5 RECEIVER](#)
- [6 RECEIVER DISPLAY](#)
- [7 RECEIVER FUNCTION](#)
- [8 TRANSMITTER](#)
  - [8.1 HANDHELD](#)
  - [8.2 BODYPACK](#)
- [9 TRANSMITTER FUNCTION](#)
  - [9.1 HANDHELD](#)
  - [9.2 BODYPACK](#)
  - [9.3 UHF](#)
- [10 TECHNICAL SPECIFICATION](#)
- [11 Specifications:](#)
- [12 FAQ:](#)
  - [12.1 Q: Can I open the housing of the unit to perform repairs myself?](#)
  - [12.2 Q: Is it safe to place metal objects or liquids inside the unit?](#)
  - [12.3 Q: What should I do if I encounter a malfunction?](#)
- [13 Documents / Resources](#)
  - [13.1 References](#)
- [14 Related Posts](#)

**Power Dynamics PD220 Wireless True Diversity System**



## INSTRUCTION MANUAL

PD220 Wireless True Diversity System

Ref. nr.: 179.035; 179.037; 179.039; 179.040

## OVERVIEW





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.
- 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!** Carefully unpack the box upon receipt. Check the contents to ensure that all parts are present and have been received in good condition. Notify the shipper immediately and retain packaging material if any parts appear damaged from shipping or the package itself shows signs of mishandling. Save the package and all packaging materials. If the product must be returned, it is important that the product is returned in the original factory box and packaging. 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.

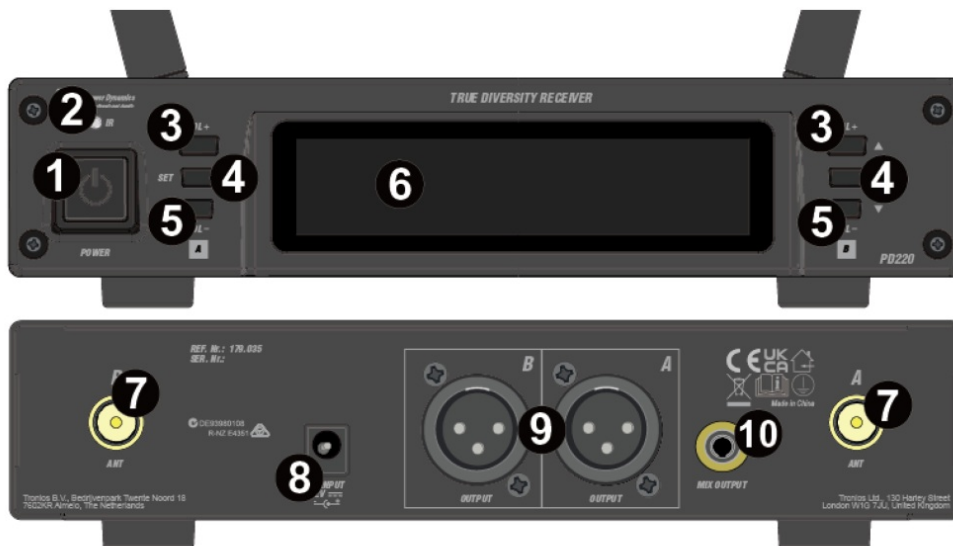
## **POWERSUPPLY**

The label on the back/under side of the product indicates the mains voltage to which it must be connected. Check that the mains voltage corresponds to this. Any other voltage

than the one indicated may cause irreparable damage to the unit. The unit must also be connected directly to the mains voltage and no dimmer or adjustable power supply may be used.

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.

## RECEIVER



### 1. Power

Press to turn the PD220 receiver on/off.

### 2. IR

Infrared (IR) signal transmitter.

### 3. Up / volume up

Up key / increase volume.

### 4. Set

Press to enter menu and confirm input.

### 5. Down / volume down / IR

Down key / decrease volume / turn on IR transmitter.

### 6. LCD display



## 7. Antenna connector

Connectors for attaching the supplied antennas.

## 8. 12V DC input

Power input for connecting the supplied power adapter.

## 9. Output A & B

XLR output connectors for connecting the receiver to the input of a mixer.

## 10. Mix output

6.3mm mix output jack.

## RECEIVER DISPLAY



### A. Frequency

This six-character display is used to show the frequency.

### B. Channel

Displays the selected channel for the PD220 transmitter.

### C. Scan

Indicating the status of the auto-scan function. When turned on, the least interfering frequency will be used.

### D. Mute

Indicating no connection between receiver and transmitter.

### E. Volume

Indicating the volume output level.

## **F. Squelch**

Indicating the level of squelch setting. The squelch function allows you to filter out constant white noise. To activate, set the squelch setting to the lowest possible setting and then increase to the point where the noise disappears. The unit should be silent except for transmissions that are stronger than background activity, so you can hear those transmissions much more clearly.

## **G. A / B signal**

Indicating the signal strength/reception for channel A/B.

## **H. Level**

Indicating the level of the received audio signal.

## **I. IR**

Indicating the status of the infrared (IR) function. When shown, frequency of transmitter and receiver can be matched.

To initiate, press and hold ▼ on the receiver. The IR icon will be flashing on the display. Move the IR receiver of the transmitter (handheld/bodypack) in range of the IR transmitter on the receiver module and keep it there for 3 seconds.

## **J. Lock**

Indicating the status of the lock function. When shown, the transmitter is locked.

## **K. Battery**

Indicating the battery level of the transmitter.

# **RECEIVER FUNCTION**

## **Frequency selection**

Press SET to enter the menu. Press ▲ or ▼ to change the frequency.

## **Squelch adjustment**

Double press SET, the squelch icon (SQ) will flash on the display. Press ▲ or ▼ to change the squelch value.

## **Auto scan**

Triple press SET, the scan icon (SCAN) will flash on the display. Press ▲ or ▼ to turn auto scan on/off.

### Lock function

Press and hold SET (of left channel) to lock/unlock the receiver.

### Change volume

Press ▲ or ▼ to change the volume.

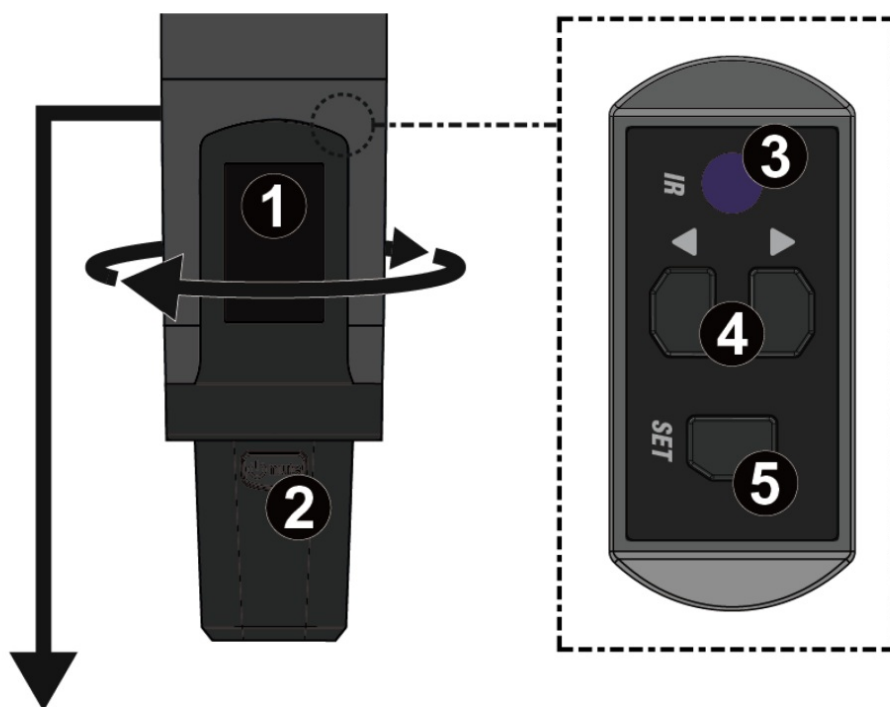
### IR match

Press and hold ▼ on the receiver. The IR icon will be flashing on the display. Move the IR receiver of the transmitter (handheld/bodypack) in range of the IR transmitter on the receiver module and keep it there for 3 seconds.

## TRANSMITTER

### HANDHELD

Rotate the bottom part of the microphone and unscrew. When fully unscrewed, slide the bottom part down to uncover the controls and battery compartment. Insert the correct batteries (2x AA).



## 1. LCD display

## 2. Power / mute

Press and hold to turn the microphone on/off.

When on, press to (un)mute the microphone.

## 3. IR receiver

When IR flashes on the display: move the IR receiver of the transmitter (handheld/bodypack) in range of the IR transmitter on the receiver module and keep it there for 3 seconds to match frequency.

## 4. Up / down

▲ and ▼ function buttons.

## 5. Set

Press to enter menu and confirm input.

## BODYPACK



## **1. LCD display**

## **2. Power**

Press and hold to turn the bodypack on/off.

When on, press to enter menu mode.

## **3. Up / down**

▲ and ▼ function buttons.

When on, press and hold ▼ to (un)mute the bodypack.

## **4. Input**

3.5mm input connector for lavalier-/headset microphones.

## **5. Antenna**

## **6. Battery compartment**

Insert two AA-type batteries to power the transmitter. Slide the cover to the “open” position and insert the batteries correctly. The display shows the power level of the batteries. If the transmitter is not used for a long period (approx. 1-2 weeks), remove the batteries to protect the device for possible leakage.

## **7. IR receiver**

When the IR flashes on the display: move the IR receiver of the transmitter (handheld/bodypack) in range of the IR transmitter on the receiver module and keep it there for 3 seconds to match frequency.

# **TRANSMITTER FUNCTION**

## **HANDHELD**

### **Power on/off**

Press and hold POWER/MUTE to turn the microphone on/off.

### **Mute**

When the microphone is on: press POWER/MUTE to (un)mute the microphone. When enabled, the button will light up in red.

## Frequency selection

Press SET to enter the menu. Press ▲ or ▼ to change the frequency.

## RF power

Double press SET, RF-HI or RF-LOW will be flashing on the display. Press ▲ or ▼ to change the setting.

## BODYPACK

### Power on/off

Press and hold POWER to turn the bodypack on/off.

### Mute

When the bodypack is on: press and hold ▼ to (un)mute the bodypack.

## Frequency selection

Press POWER to enter the menu. Press ▲ or ▼ to change the frequency.

## RF power


Double press POWER, RF-HI or RF-LOW will be flashing on the display. Press ▲ or ▼ to change the setting.

## Gain adjustment

Triple press POWER, GAIN will be flashing on the display. Press ▲ or ▼ to change the setting.

## UHF

No license required (excluding geographical restrictions)

				
BE	DK	F	FI	DE
HU	IT	NL	NO	PL
PT	RO	SI	ES	SE
CH	GB			

Belgium (BE), Denmark (DK), France (F), Finland (FI), Germany (DE), Hungary (HU), Italy (IT), Netherlands (NL), Norway (NO), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Great Britain (GB)

## **TECHNICAL SPECIFICATION**

### **RECEIVER**

Output connections : 6.3mm Jack, XLR (3-pin)

Microphone channels : 2 x 20 channels

Dynamic range : >85dB

Frequency : 863.000 – 865.000 MHz

Frequency response : 40Hz – 17.000Hz

Frequency stability : 0.002%

RF output : 10-15dBm

Sensitivity : -90dB

Signal-to-noise ratio : >90dB

THD : <1%

Batteries : 3V (2x AA)

Power supply : 100-240VAC 50/60Hz (12V Adapter)

Power consumption : 0.055 – 0.028A

Dimensions receiver : 320 x 380 x 95mm

Weight set : 2,70kg

### **Specifications:**

- Product Model: PD220 Wireless True Diversity System
- Reference Numbers: 179.035; 179.037; 179.039; 179.040
- Version: V1.0
- Certification: CE Certified

### **BODYPACK**

Input connections : 3.5mm Jack

Microphone channels : 20 channels

Frequency : 863.000 – 865.000 MHz

Frequency response : 40Hz – 16.000Hz

Frequency stability : 0.002%

RF output : 10-15dBm

Batteries : 3V (2x AA)

Dimensions (L x W x H) : 30 x 68 x 100mm

Weight : 0,20kg

## **HANDHELD**

Microphone channels : 20 channels

Dynamic range : >85dB

Frequency : 863.000 – 865.000 MHz

Frequency response : 40Hz – 17.000Hz

Frequency stability : 0.002%

RF output : 10-15dBm

Batteries : 3V (2x AA)

Dimensions (L x W x H) : 51 x 250mm

Weight : 0,40kg

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

The products referred to in this manual conform to the European Community Directives to which they are subject:

## **European Union**

Tronios B.V.,

Bedrijvenpark Twente Noord 18, 7602KR Almelo, The Netherlands

## **United Kingdom**

Tronios Ltd.,

130 Harley Street,





## FAQ:

**Q: Can I open the housing of the unit to perform repairs myself?**

A: No, opening the housing can expose voltage carrying parts.

Repairs should only be done by a qualified technician to avoid electrical shock.


**Q: Is it safe to place metal objects or liquids inside the unit?**

A: No, this may cause electrical shock and malfunction. Avoid placing such items inside the unit.

**Q: What should I do if I encounter a malfunction?**

A: Seek advice from a specialist if you experience any malfunctions with the unit. Do not attempt to repair it yourself.

## Documents / Resources

	<p><a href="#">Power Dynamics PD220 Wireless True Diversity System [pdf]</a> Instruction Manual</p> <p>179.035, 179.037, 179.039, 179.040, PD220 Wireless True Diversity System, PD220, Wireless True Diversity System, True Diversity System, Diversity System</p>
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## References

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