Power Dynamics PD781 UHF Wireless Microphone Systems Instruction Manual

UHF WIRELESS MICROPHONE SYSTEMS

179.193 – PD781 Wireless Mic UHF 1x8Ch
179.196 – PD782 Wireless Mic UHF 2x8Ch
Instruction Manual

Thanks for purchasing this product, please read this instruction carefully so that can understand how to operate the product of the style you bought correctly. Please store this instruction in a safe place after reading it as a reference in the future. This series of professional wireless microphone systems used a super steady PLL-synthesized control technique and match with the high efficiency, low consumption discharging technique.

Warning

- Always read the manual before using the product.
- Keep the manual so every new user can read it before using the product.
- Always keep the packaging. When a malfunction occurs, please send it in the original packaging.
- Only for indoor use. Do not use in moistures places.
- Don’t expose to direct sunlight or heat sources. Don’t block ventilation openings.
- Don’t let small objects or fluids enter the housing. Don’t put candles on it. This may cause malfunction.
- Clean this unit with a dry cloth. Don’t use cleaning fluids or solvents.
- The unit contains no serviceable parts. Only the replacement parts named in this manual can be changed by the user or servicing personnel.
- Never open the unit, service may only be done by qualified personnel.
- Never remove or place the mains plug in a socket with wet hands.
- Disconnect the unit from mains power before servicing.
- Condensation water can form while reusing, please let the unit reach the environmental temperature before using it.
- Keep out of children’s reach.
- When the unit is damaged in a way that internal parts are visible. NEVER connect the unit to a mains socket and NEVER switch the unit on. In this case, contact your supplier.
- When a lightning storm occurs, always disconnect this unit from the main socket. Do the same when the unit won’t or hasn’t been used for a long period of time.
- Using this unit might cause disturbance in insufficiently shielded equipment. This disturbance might cause damage or accidents. Please check if there is any sensitive equipment in close proximity to the unit before installing it


Electric products must not be put into household waste. Please bring them to a recycling center. 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 invalidate your warranty. Do not make any changes to the unit. This would also invalidate 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 the disrespect of the safety recommendations and warnings. This is also applicable to all damages in whatever form

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), United Kingdom (GB)

Please contact your radio licensing authority in your country, who will advise you on the available frequencies and transmitter power requirements.

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FRONT- AND BACKSIDE

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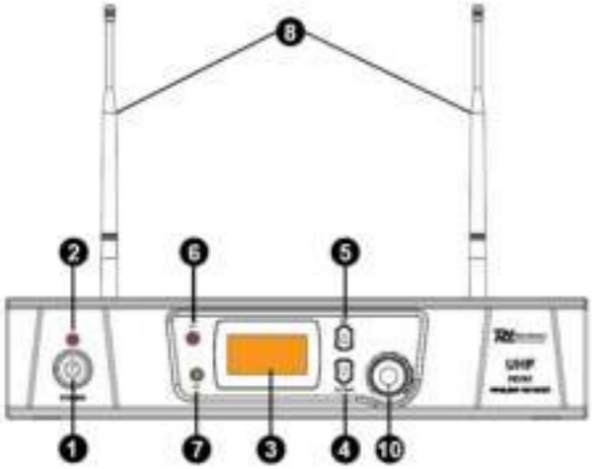
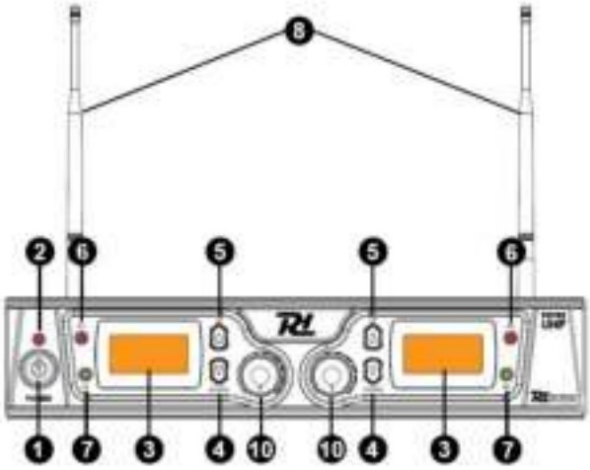
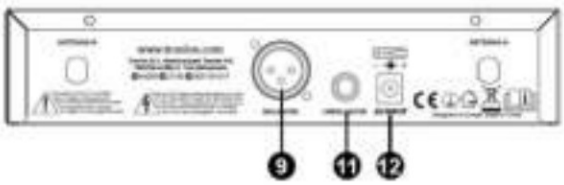
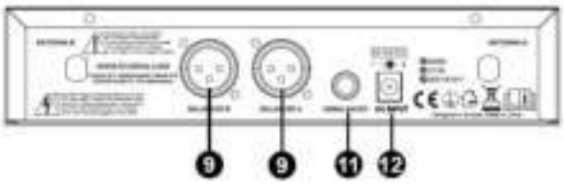




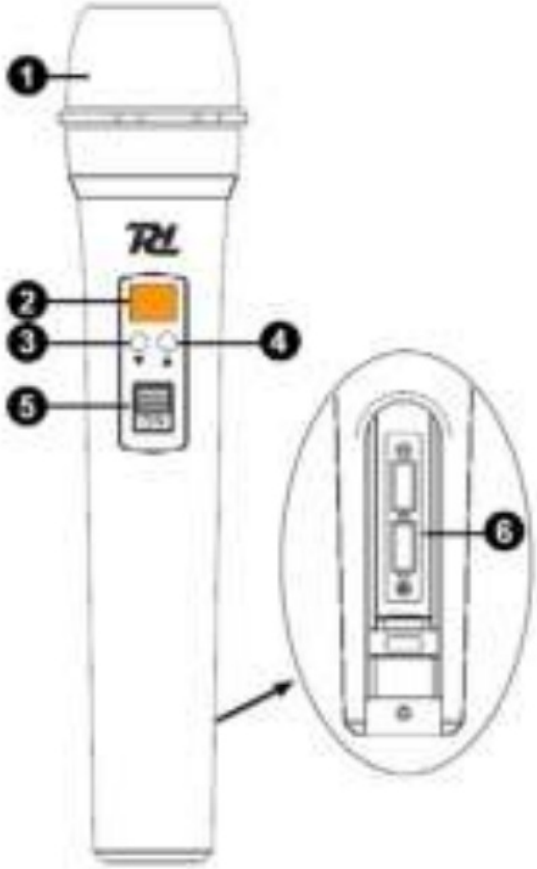
1. Power switch to switch ON/OFF the system
2. Power indicator ON/OFF
3. LCD Information Display: Show the receiver frequency channel etc.
4. Down button: Sets channel data.
5. Up button: Sets channel data.
6. “AF” Audio level indicator: Indicate the wireless system audio signal level.
7. “RF” signal Indicator: Indicate when receiving RF signal from the transmitter.
8. Antenna





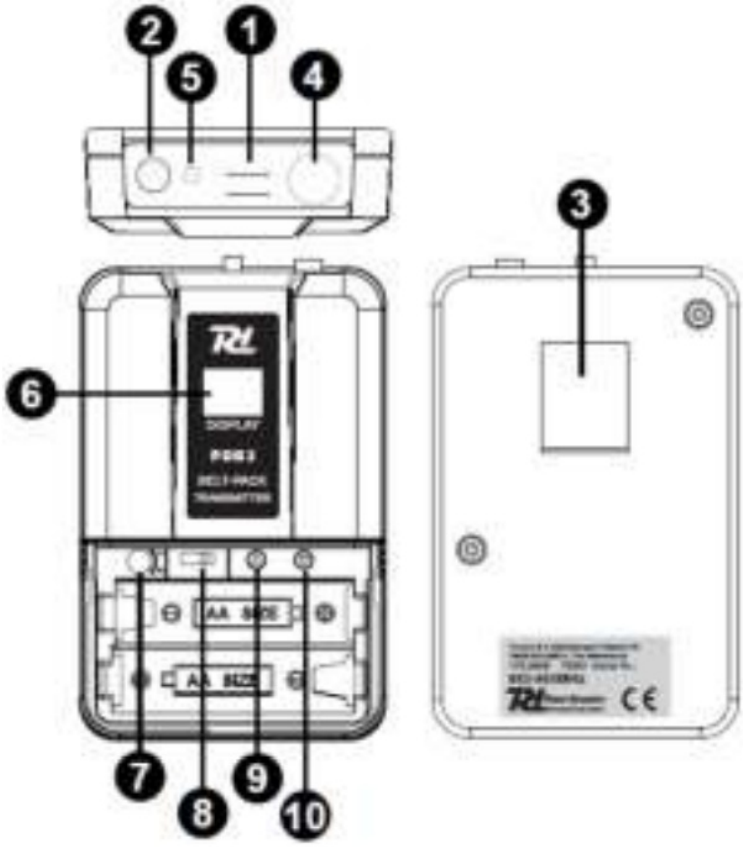
9. XLR- connector balanced: Connect the audio cable from this jack to the input port of the amplifier, and mixer.
10. Volume knob
11. 1/4″ Jack connector: Connect the audio cable from this jack to the input port of the amplifier, and mixer.
12. Power inlet, 12-15Vdc

HANDHELD TRANSMITTER



1. Grille: Protects the cartridge and helps reduce the breath sounds and wind noise.
2. LCD Information Display: Show the transmitter frequency channel etc.
3. Down button: Sets channel data.
4. Up button: Sets channel data.
5. Power ON/OFF and Audio Mute Switch.
6. Battery Cover: Open it to install the battery. remove batteries in case of a long time no use (prevent leakage).

BODYPACK TRANSMITTER (OPTIONAL)



1. Power ON/OFF and Audio mute switch.
2. Antenna: Transmit the RF signal of the transmitter.
3. Belt Clip
4. Audio Input Jack: it is suitable for a lavalier tie-clip or headset system.
5. Low Battery Indicator: Red light glows when the power is low and changes the battery.
6. LCD Information Display: Show the transmitter frequency channel etc.
7. Gain Adjusting Volume: Adjust the transmitter audio input gain.
8. State Setting Switch: Set the using state of the lavalier tie-clip or headset system.
9. Up Function Button: Sets channel data.
10. Down Function Button: Sets channel data.

LAVALIER TIE-CLIP MICROPHONE

Connect the connecter of supplied lavalier microphone to the connecting jack of the transmitter (Shown below). Set the transmitter work state in a wireless lavalier system (8).

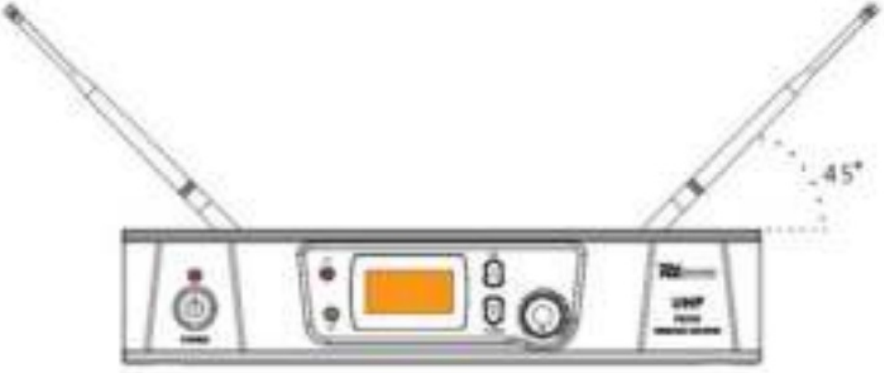
HEADSET MICROPHONE

Connect the connecter of supplied headset microphone to the connecting jack of the transmitter (Shown below). Set the transmitter work state in the wireless headset system (8).

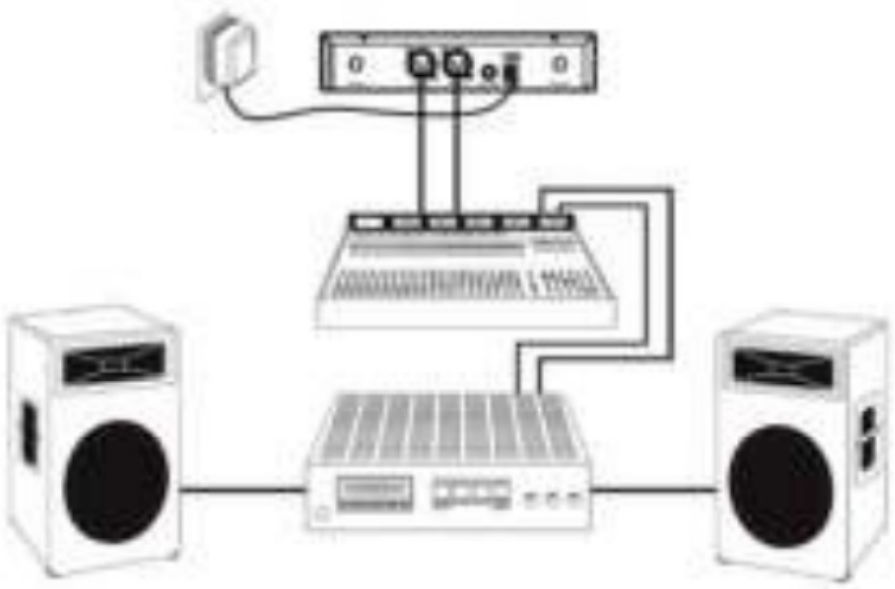
SYSTEM CONNECTIONS

1. Receiver power connection: Connect the AC adapter to the DC power connector on the back of the receiver. Plug the AC adapter into an AC230V 50Hz outlet.

2. Antenna: Keep the position of the antenna at a 45° angle from vertical. Shown as below



3. Audio connection: Connect the audio cable from the audio output on the receiver to the input on your amplifier equipment.



OPERATION

Turn off the system first, turn down the receiver's volume to the minimum and then turn on the receiver, CPU initializes, the LCD screen begins to display and the system reverts to the last shutdown's state!
Tune to the desired frequency of the receiver and observe the RF- and AF signal level. If the signal level is displayed it means the receiver has interference from other signals or noise. The system has a mute circuit to avoid interference noise. If interfering with each other occurs it is recommended to use other frequencies.
If the system is turned on look at the transmitter and receiver's frequency.
Then the receiver display shows the RF signal level value, the antenna status will display antenna A or B. Adjust the volume to the desired level.

Volume adjustment

Adjust the receiver's volume to the 12 o'clock position, then adjust the volume of the amplifier or mixer to the desired level. If the receiver volume has been adjusted too loud the amplifier will produce a saturated distortion which will blow the amplifier or/and the loudspeaker(s)!

Best acoustics:

1. You should always see the receiver antenna from your transmitter location.
2. The distance between transmitter and receiver should be as short as possible.
3. If the receiver has two antennas, they should be adjusted to 45° with a vertical line.
4. Keep the antennas away from metal surfaces and shelter.
5. Let the antennas not contact or cross each other.
6. Before using the system in the presence of the public do a test to find out where the "dead spots" are. Avoid these spots when operational.

TROUBLESHOOTING

PROBLEM	INDICATOR	SOLUTION
No sound	The red transmitter indicator is not fl ash	Slide transmitter POWER ON/OFF sw itches to ON position. Make sure the b attery is inserted properly, observing t he battery (+ / -). If the battery is insert ed properly, replace it with a fresh batt ery.
No sound	The red transmitter indicator is flash.	Slide transmitter MUTE/ON switch to ON position.
No sound	Red receiver indicator POWER light off.	Make sure the AC adapter is securely plugged into an electrical outlet and in to the DC input connector. Make sure AC electrical outlet works a nd supplies proper voltage.
No sound	Receiver signal indicators A/B lights glowing.	Turn up the receiver volume control. C onfirm that the output connections fro m the receiver to the external equipment are secure.
No sound	Receiver signal indicators A/B lights off. Transmitter and receiver POWE R light glowing.	Confirm transmitter's and receivers' fr equencies match. Move the transmitte r closer to the receiver.
Sound level differs from the lev el of a cabled instrument.	Receiver signal indicators A/B lights glowing.	Adjust transmitter gain level to compe nsatory. Adjust receiver volume as necessary.
Distortion level increases gradu ally	Receiver signal indicators A/B lights and transmitter LOW BATTERY light glowing	Replace transmitter battery
Bursts of noise or other audible radio signals are present.	Signal indicators A/B/ lights on.	Identify potential sources of interferen ces (other RF sources) and turn off, re move or use a wireless system operating on a different frequency.
Momentary loss of sound as th e transmitter is moved around t he performing area.	Receiver signal indicator A/B lights off when sound is lost	Reposition the receiver and perform t he walk-through test again. If audio dr opouts persist, mark "dead" spots and avoid them during the performance.

TECHNICAL SPECIFICATION

PF781		**PD782**
Ref.nr:	179.193	179.196
Frequency range	863-865Mhz	863-865Mhz
Frequency response	50Hz-18kHz	50Hz-18kHz
Signal/Noise ratio	> 105dB	> 105dB
Rated voltage	AC220~240V 50Hz	AC220~240V 50Hz
Adapter	13-15V DC / 500mA	13-15V DC / 500mA
Dimensions per unit	215 x 170 x 50 mm	215 x 170 x 50 mm

Handheld PDM3		**Bodypack PDB3 (OPTIONAL)**
Ref. nr:	179.193H	179.200
Frequency range	863-865Mhz	863-865Mhz
Battery	2x 1.5V AA Battery	2x 1.5V AA Battery
RF output	>10dBm	>10dBm
Dimensions per unit	238 x 50 x 50 mm	100 x 65 x 30 mm

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:	179.193; 179.196
Product Description:	Power Dynamics PD781 Wirel.Micro UHF 1x8Ch 1 Micro Power Dynamics PD782 Wirel.Micro UHF 2x8Ch 2 Micro

I hereby declare that the product meets the requirements stated in the Directives:

- LVD 2014/35/EU
- EMC 2014/30/EU
- RoHS 2011/65/EU
- RED 2014/53/EU

Almelo, 19-09-2018
Name: M. Velders

Signature : 

Specifications and design are subject to change without prior notice..
www.tronios.com

Documents / Resources

	Power Dynamics PD781 UHF Wireless Microphone Systems [pdf] Instruction Manual PD781, PD782, UHF Wireless Microphone Systems

References

- NVMP - Home
- Stibat
- Sound & Light distributor - Tronios.com