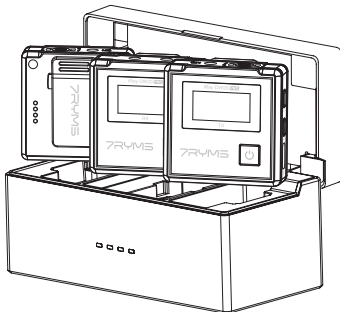


7RYMS



iRay DW20 **PRO**

2.4G Dual-channel Wireless Microphone

User Manual



Foreword

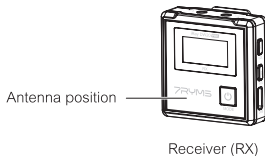
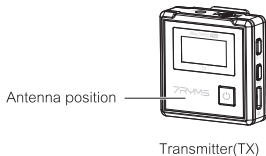
Thanks for purchasing 7RYMS iRay DW20 PRO

Main Features

- . 48kHz/24bit Audio Recording, Intelligent Denoise
- . Digital&Analog Output Mode, Universal for Camera, Phone and Computer
- . Mono/Stereo/Safety Mode for Ultimate Flexibility in Post-production
- . Rechargeable Storage Case for Charging and Storing
- . LCD Screen for Intuitive Power and Audio Dynamic Monitor
- . Featured with Preamp Amplifier and 12-level Gain Control
- . Real-time Audio Monitor and One-touch Mute Function
- . Internal and External MIC Two Input Modes
- . Low Latency < 20ms, Working Range Up to 100m(Open Area)
- . Designed with Magnetic Belt Clip, Wearable and Portable

Notice

- ⚠ Due to 2.4G wireless characteristics, it is better to keep face to face when using it, and do not turn your back to the receiver, otherwise it is easy to generate breakpoints, which is a normal phenomenon
- ⚠ Do not block the antenna position to avoid any poor signal generated
- ⚠ Please notice that it can not realize STEREO function when in single-channel and safety mode
- ⚠ The product is a high-precision instrument, please prevent it from falling, collision or pounding
- ⚠ Do not use the equipment in the vicinity of heat source or interference source, such as radiator, oven, intercom or next to the other wireless devices
- ⚠ If the pick-up distance is close or when it is used outdoors, please put on the wind muff to prevent sound burst or reduce wind noise
- ⚠ Do not use the equipment in rain or in a damp environment to avoid short-circuit danger



Packing List

1. Transmitter (TX) *2
2. Receiver (RX)
3. Charging Case
4. 3.5mm TRS Mic*2
5. Wind Muff*2
6. 3.5mm TRS-TRS Audio Cable
7. 3.5mm TRS-TRRS Audio Cable
8. 3-in-1 Charging/Audio Output Cable
(The orange cable can be used for charging and digital output, the two black cables can only be used for charging)
9. User Manual
10. Warranty Card



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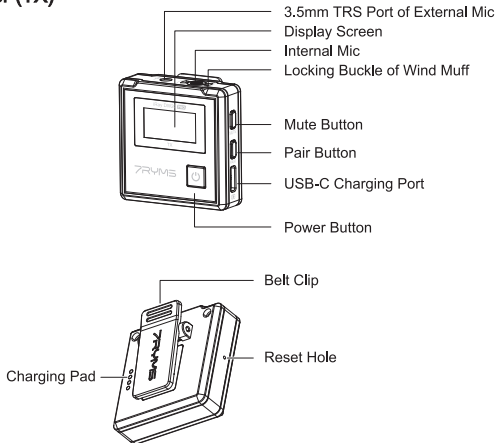


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Transmitter (TX)



1. 3.5mm TRS Port of External Mic

Insert the 3.5mm TRS Mic, and you can use the external lavalier microphone for recording. At this time, the internal microphone of the device is turned off automatically

2. Power Button

Long press for On/Off

3. Muting Button

Long press to switch between normal recording and mute

4. Pair Button

Long press for pairing with the receiver

5. USB-C Charging Port

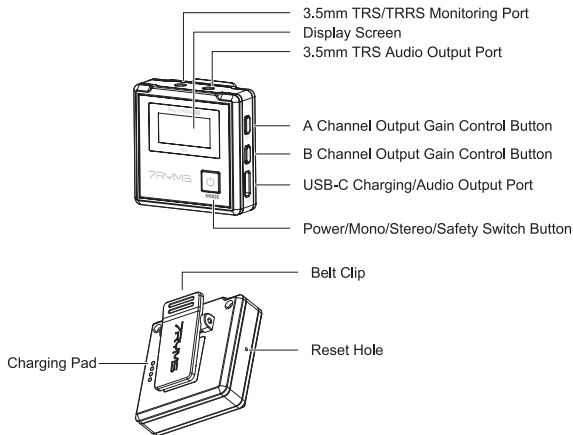
Connect the transmitter with the power supply through the 3-in-1 charging cable to charge

6. Reset Hole

If the device is crashed or unable to turn on, please insert the reset pin into the reset hole to reset the transmitter



Receiver (RX)



1. 3.5mm TRS/TRRS Monitoring Port

Plug in 3.5mm TRS/TRRS headphones to monitor; When in Stereo mode, A is the left channel and B is the right channel

2. 3.5mm TRS Audio Output Port

Plug in 3.5mm TRS-TRS/TRS-TRRS audio output cable to connect the receiver and the related device

3. A/B Channel Output Gain Control Button

Short press to cyclically adjust the A/B channel output gain. In the mono mode, the A/B channel output gain is adjusted synchronously

4. USB-C Charging/Audio Output Port

Connect the receiver and the corresponding device through the 3-in-1 charging/output cable for charging or digital output

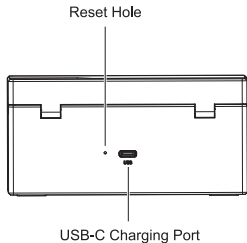
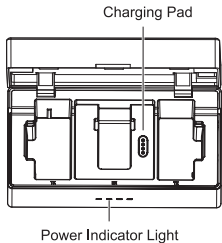
5. Power/Mono/Stereo/Safety Mode Switch Button

Long press for On/Off; Short press to switch between Mono, Stereo, and Safety mode; It can not realize STEREO function when in single-channel and safety mode

6. Reset Hole

If the device is crashed or unable to turn on, insert the reset pin into the reset hole to reset it

Charging Case



1. Power Indicator Light

There are four power indicator lights, each of which represents 25% of the power

2. USB-C Charging Port

Connect the charging case with the power supply via a USB-C charging cable

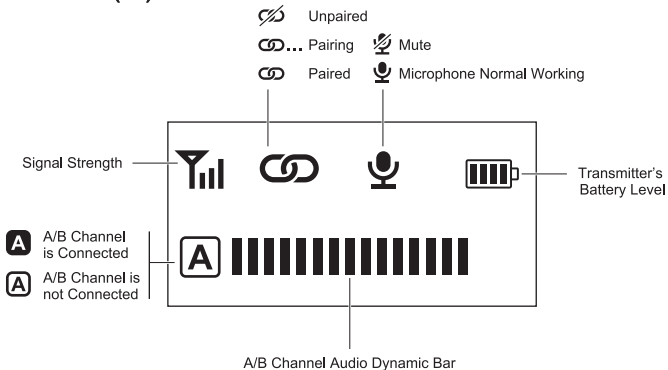
3. Reset Hole

If the device cannot be charged, insert the reset pin into the reset hole to reset it

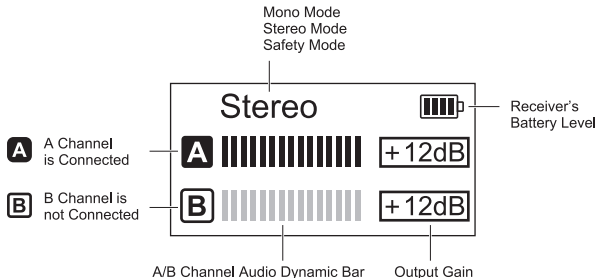


With the charging case opened, the receiver displays the battery level of the receiver and transmitters

Transmitter (TX)



Receiver (RX)



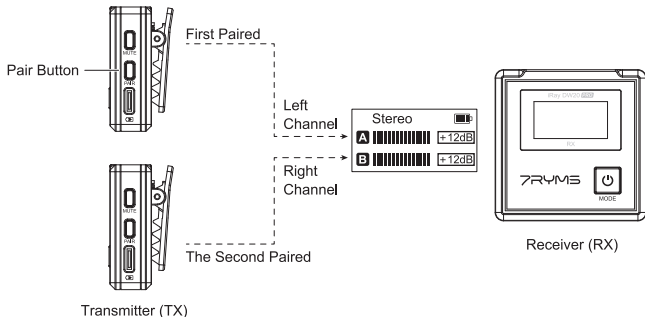
Mono Mode: Output a mixed audio track of A channel and B channel.

Stereo Mode: Output two independent audio tracks of A channel and B channel.

Safety Mode: Output two mono audio tracks: One is normal audio, and the other is safe audio reduced by -6dB on the basis of normal audio.

Pairing Method (All have been paired by default. If you need to re-pair, please follow the instruction)

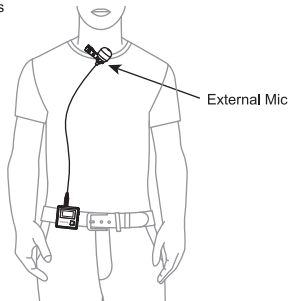
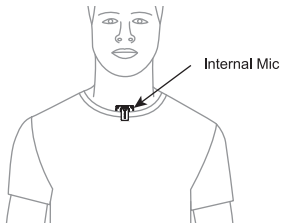
Turn on the transmitter, long press its pair button to pair. The first paired transmitter is channel A (left channel), and the second one is channel B (right channel)



Installation Method

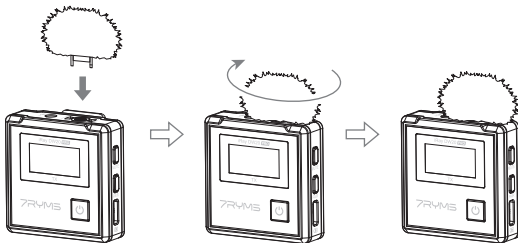
Transmitter(TX)

1. Choose internal/external mic according to personal needs



1. For better concealment during use, it is recommended that the belt clip fixed on the outside for use
2. The internal microphone will be automatically turned off when the external microphone is working

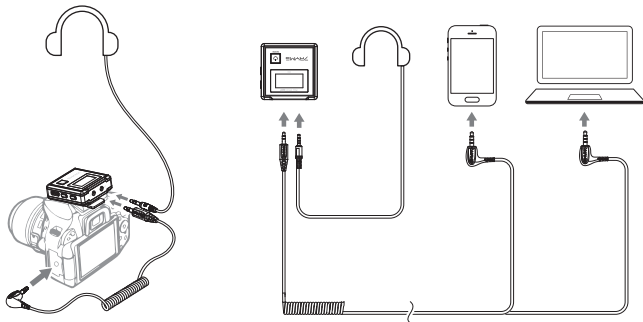
2. When using the internal mic, install the wind muff according to personal needs; Insert the wind muff into the locking buckle, and then tighten it clockwise



Receiver(RX)

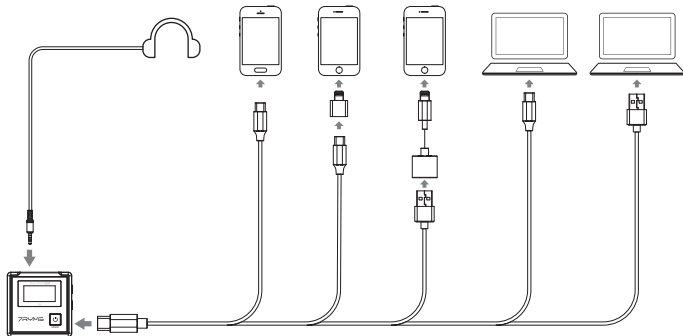
Analog Output

Connect the camera and receiver via the 3.5mm TRS-TRS audio cable; connect the phone/computer and receiver via the 3.5mm TRS-TRRS audio cable; choose whether to monitor according to your needs.



Digital Output

Connect the mic and the phone/computer via a USB-C to USB-C/USB-C to USB-A audio cable and related OTG audio cables/adapters; choose whether to monitor according to your needs.



Transmitter (TX)

Wireless Frequency	2400~ 2483.5MHz
Transmitting Power	+10dBm
Sensitivity	-86dBm
S/N	>70dB
Antenna	PCB Antenna
Polar Pattern	Omnidirectional
Frequency Response	80Hz ~ 20KHz
Latency	<20ms
Input Port	3.5mm TRS
Battery	Built-in Li-ion Battery 330mAh 3.7V
Battery Life	6 Hours
Net Weight	28g
Dimension	45 x 45 x 22mm
Working Temperature	0℃ ~ 50℃
Storage Temperature	-20℃ ~ +60℃



Receiver (RX)

Wireless Frequency	2400 ~ 2483.5MHz
Transmitting Power	+10dBm
Sensitivity	-86dBm
S/N	>70dB
Antenna	PCB Antenna
Audio Output	-12dB ~ +12dB
Latency	<20ms
Analog Output	3.5mm TRS
Digital Output	USB-C / 48kHz 24bits
Monitoring Port	3.5mm TRS/TRRS
Battery	Built-in Li-ion Battery 330mAh 3.7V
Battery Life	6 Hours
Net Weight	28g
Dimension	45 x 45 x 22mm
Working Temperature	0℃ ~ 50℃
Storage Temperature	-20℃ ~ +60℃

Charging Case

Operating Time	Twice for two transmitters and one receiver charged simultaneously
Charging Port	USB-C
Battery	Built-in Li-ion Battery 3000mAh 3.7V
Net Weight	230g
Dimension	124 x 60 x 60mm
Working Temperature	0°C ~ 50°C
Storage Temperature	-20°C ~ +60°C

