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REDRAGON
ECHOWAVE GAMING STREAM MICROPHONE

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Condenser USB streaming microphone Operating Instructions

REDRAGON
ECHOWAVE GAMING STREAM MICROPHONE

CE EAC FC RoHS

Condenser USB streaming microphone Operating Instructions

US UK

Dear user

Thank you for choosing our REDRAGON product. To protect your rights and for better customer service, we ask that you note our warranty rules.

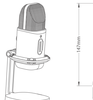
1. Within guaranty period, repair is guaranteed for failure due to electrical circuit problems. Other damages, such as disassembly, hard impacts, submersion into water, plugging into improper current or voltage, and damage caused by natural disasters such as fire, flood, or earthquake are not included.
2. Consumable parts (such as foot pad) and spare parts replacement are not included in our warranty.

1

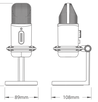
OS Support

PC, Mac, iOS with OTG adapter, Android

Microphone GM305



Product Size

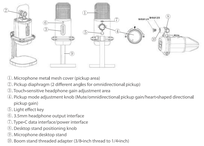


2

Pickup Technical Specifications	Performance Parameters	Earphone Amplifier Output Technical Specifications	Performance Parameters
Pickup Range	Cardioid（Omnidirectional	Earphone Amplifier Signal-to-Noise Ratio (SNR)	≥90dB
Diaphragm Compartment	2+2omnidirectional+ seven Leaves	Frequency Response	20Hz-20kHz
Pickup Frequency Response	30Hz-18kHz	Output Power (RMS)	10mW
Pickup Sensitivity	-42dB±1dB (at 1kHz)	Total Harmonic Distortion (THD)	<0.1% （1kHz）
Pickup Signal-to-Noise Ratio (SNR)	≥60dB	Headphone Jack	3.5mm
Maximum Sound Pressure Level	120dB （1kHz ≤THD≤3）	Headphone Output Impedance	≥16Ω
Pickup Sampling Bit Rate	16bit (24bit)	Earphone Monitoring Decoding Bit Rate	16bit(24bit)
Pickup Sampling Rate	48k/44k/32kHz	Earphone Monitoring Decoding Sampling Rate	48k/44k/32kHz
Total Harmonic Distortion	<0.5%		
Other Specifications			
Power and Consumption	USB-C 5V 400 mA	Data Communication Interface	USB2.0, Type-C
Dimensions (Length x Width x Height)	147.5*86.7*224 mm	Net Weight	390g
Dynamic Light Effects	7 types of colorful lights；dynamic pickup lights	Nesting Arm Bracket Threaded Adapter	British 3/8 screw to British 5/8

4

Function Structure

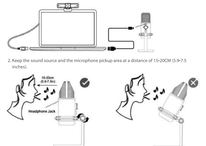


① Microphone metal mesh cover (pickup area)
② Pickup diaphragm (2 different angles for omnidirectional pickup)
③ Touch-sensitive headphone gain adjustment area
④ Pickup mode adjustment knob (Mute/omnidirectional pickup gain/heartshaped directional pickup gain)
⑤ Light effect key
⑥ 3.5mm headphone output interface
⑦ Type-C data interface/power interface
⑧ Desktop stand positioning knob
⑨ Microphone desktop stand
⑩ Boom stand threaded adapter (3/8inch thread to 1/4inch)

Microphone Installation Guide

1. Using the included USB cable, insert the Type-C connector into the microphone's Type-C interface, and connect the other end to the computer, as shown in the diagram below.

5



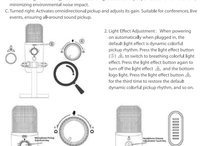
2. Keep the sound source and the microphone pickup area at a distance of 15-20CM (5.9-7.5 inches).

Microphone Function Operation

1. Adjust the pickup gain/mute control by rotating Knob ④:
A. Middle position: Microphone muted; ring light effect and pickup area light effect off. Red light in the touch-sensitive headphone gain adjustment area stays on.

6

8. Turned left: Activates heart-shaped mode pickup and adjusts its gain. Suitable for podcasts, broadcasting, voice acting, instrument recording, etc. Selectively captures sound from the front, minimizing environmental noise impact.
C. Turned right: Activates omnidirectional pickup and adjusts its gain. Suitable for conferences, live events, ensuring all-around sound pickup.



2. Light Effect Adjustment： When powering on automatically when plugged in, the default light effect is dynamic colorful pickup rhythm. Press the light effect button （5）, to switch to breathing colorful light effect. Press the light effect button again to turn off the light effect （5）, to turn the light back on. Press the light effect button （5）, for the third time to restore the default dynamic colorful pickup rhythm, and so on.

7

2. System Settings

Windows setting

Audio Input (Microphone) Settings

1. Right-click on the sound icon in the taskbar on the right side "◄" and select "Open Sound settings".
2. Under "Input," in "Choose your input device," select "Microphone (GM305)" and click on "Device properties."

3. Click on "Additional device properties" under "Related settings".

4. Click on the "Listen" tab, adjust the volume to an appropriate level, and confirm that the "Sound icon" is not muted.

8

6. Click on the "Advanced" tab, for "Default Format," it is recommended to choose an option above "CD Quality". Check "Allow applications to take exclusive control of this device" and "Give exclusive mode applications priority".

2. Under "Output," in "Choose your output device," select "Headphones (GM305)" and click on "Device properties."

3. Audio Output (Speaker) Settings

1. Right-click on the sound icon in the taskbar on the right side and select "Open Sound settings."

2. Click on "Additional device properties" under "Related settings".

9

4. In the "Speaker Properties" dialog that appears, click on the "Levels" tab, adjust the volume to an appropriate level, and confirm that the "Sound icon" is not muted.

RDS Properties
General
Levels
Enhancements
Advanced
Speaker
Speaker Level
Speaker Balance
Speaker Balance
Speaker Balance