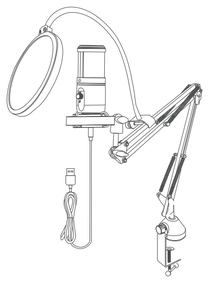
NEEWER®



4-In-1 CM20 USB Microphone Set
Instruction Manual

Document Information

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Version Control

Date	Version number	Description	Issued by
22/02/2022	1.0	CM20 USB Microphone 4 in 1 set Instruction Manual	NEEWER

Package contents

Microphone & USB cable x 1

Boom arm stand x 1

Shock mount x 1

Pop filter x 1

Cable tie x 5

Windscreen x 1

Screw adapter x 1

System requirements

Windows7/8/10/11

macOS (10.10 or above) USB 1.1/2.0/3.0"

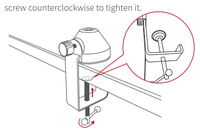
Android 6.0 or above iOS 9.0 or above HarmonyOS 1.0 or above

1.1/2.0/3.0

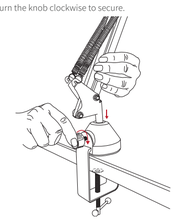
Installation

1. Install the microphone boom arm stand

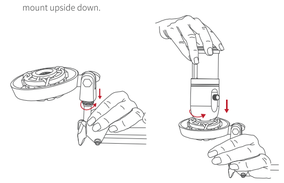
① Align and slide the clamp onto the edge of the table and turn the screw counterclockwise to tighten it.



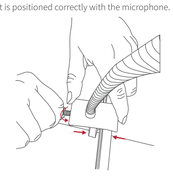
② Insert the stand into the hole located at the top of the clamp and turn the knob clockwise to secure.



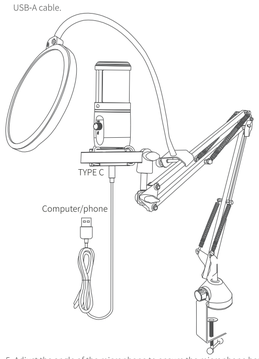
2. Insert the shock mount to the boom arm stand, and rotate clockwise until it tightens. Insert the microphone into the shock mount upside down.



3.Attach the pop filter to the arm of the stand and adjust the angle so that it is positioned correctly with the microphone.



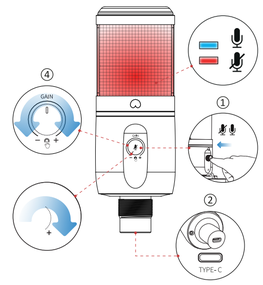
4. Connect the microphone to your PC with the USB Type-C to USB-A cable.



5. Adjust the angle of the microphone to ensure the microphone head component is facing the sound source.
6. Adjust the gain levels, setting them at a low level and increasing gradually until a suitable output is obtained.

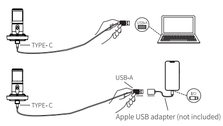
Instructions

① Mute button – One-button mute control
② Type-C interface – Directly connects to a computer or mobile phone through a USB data cable.
③ Shock mount – Reduces the noise caused by additional vibrations during recording.



④ Microphone gain – Controls the input sound level of the microphone element. Rotate clockwise to amplify the gain and rotate counterclockwise to decrease the gain. The adjustment range is 30–330 degrees.
⑤ Microphone boom arm stand – Holds the microphone independently for extra convenience.
⑥ Microphone pop filter – Reduces wind and pop sound effects when speaking.
⑦ USB cable – Use it to connect the microphone to a computer or mobile phone. (Apple mobile phones need an OTG adapter cable to connect to the Type-C port.)

USB-A/USB-C/OTG connection



Windows 10 system settings

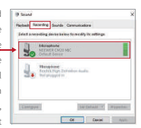
1. Input settings

After the microphone is connected to the data cable, the user does not need to install any drivers to connect to the USB port of your computer. After the microphone has successfully connected, the microphone indicator will light up in blue.

1.1 Right-click the speaker icon in the lower right corner of your computer taskbar and click "Open Sound settings.

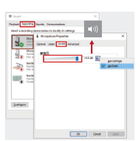
1.2 Click on Sound control panel

1.3 Select the "Recording" tab and select "NEEWER CM20 MIC" as the default device. When using the microphone to speak, the microphone's volume indicator will turn green and move in sync with your voice. If the indicator is gray, restart the computer and reinsert the device into the USB port.



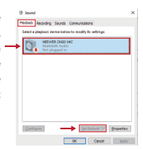
2. Microphone input volume settings

2.1 On the front of the microphone (see User Guide 6 for details), gradually adjust the gain knob. Adjust the input volume. Double-click "NEEWER CM20 MIC" to enter the microphone properties and select the "Level" tab. Right-click the small speaker icon, select "decibels" and drag the slider to adjust the input volume.

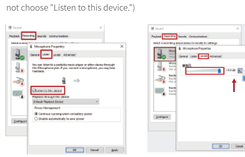


3. Computer output microphone sound

3.1 In the "Playback" tab, select the device that needs to play the sound, such as "Realtek High Definition Audio", right-click, and set this device as the default device for the computer to play back the output sound.



3.2 In the "Recording" tab, double-click the microphone "NEEWER CM20 MIC" → enter the microphone properties tab → click "Listen" → choose "Listen to this device" →"Apply". This configuration will allow you to hear the sound via the computer 's audio interface.
(Note: When using any recording software or chat software, please do not choose "Listen to this device.")



Notes (for Mac and Windows):

1. If the computer prompts that the USB device is not recognized, please restart the computer and connect the microphone to another USB port.
2. If the microphone is recognized but there is no sound, please check whether the system sound is muted and whether the microphone volume control is turned on.
3. If the microphone is recognized but there is no sound (applicable to Windows 10 OS) , please go to Start → Settings → Privacy → Microphone, and click to allow apps to access your microphone, and then reconnect the microphone.

Mac computer settings

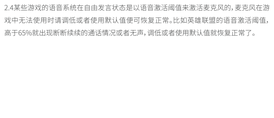
1. Connect the provided USB cable to the computer's USB port.
2. After a successful connection, the microphone indicator will light up in blue.
3. Select NEEWER CM20 MIC as audio input. Open System Preferences.

4. Click "System Preferences" and select "Sound" to open the properties tab.

5. Click the "Input" tab and select NEEWER CM20 MIC as the sound input device.
Drag the volume slider below to adjust the input volume of the microphone.

6. In the "Output" tab, change the output device to the internal speakers to enable you to hear the sound through the computer.

7. When the speakers are set as the default device, it is not possible to monitor the microphone in real time. If you want to monitor your own voice, it is recommended to make use of a recording software (such as Audacity or QuickTime) and select the monitoring function of the software.



Notes (for Mac):

1. When using a Mac computer, if you do not use a microphone to monitor the sound, but amplify the sound through a computer or a speaker, you must use the monitoring function of the recording software. Common recording software include Audacity and QuickTime. Adjust the software device, choose to monitor audio while recording, and then click the record button. By speaking or singing into the microphone, the sound will be replicated through your computer speakers.

2. When using dictation on a Macbook, select the default dialogue and voice software, and click "Open" under the dialogue window, so that the software can recognize the microphone.

3. If your Mac computer only has a USB-C port, an original Apple USB-C to USB female adapter is required to connect. Connect the USB adapter to the Mac first and then connect the microphone data cable.

Solutions to common microphone sound problems

1. The microphone volume is too loud

1.1 There is a harsh whistling sound, explosive sound, buzzing sound or electrical current sound. This issue can usually be resolved by turning down the volume of the microphone. There are two ways to adjust the gain: a. Use the volume button of the microphone to turn it down; b. For a microphone without a volume button, set the levels of the computer's microphone properties to turn it down.
1.2 If there is an echo and the sound feels empty, we recommend that you try turning down the volume, check whether the computer's 'listen to this device' function is turned off, and check whether the sound source is facing the front of the microphone.

2. The volume of the microphone fluctuates up and down

2.1 This is caused by the built in software function which automatically adjusts the volume of the microphone. This can result in problems such as intermittent, unstable, or distorted sound and automatic volume fluctuations.
2.2 For software with this function, such as QQ, Tencent Meeting, DingTalk, etc., you need to cancel the function in the settings, launch the software, and restart the microphone.
2.3 Some specific website scripts with automatic gain function cause abnormal sound. This isn't a problem with the microphone and, in this instance, there is no troubleshooting solution.
2.4 The voice system of some games uses the voice activation threshold to activate the microphone in the free speech state. When the microphone cannot be used in the game, please lower the threshold or use the default value to return to normal. For example, if the voice activation threshold of 'League of Legends' is higher than 65%, there will be intermittent chats or silence, and it will return to normal after lowering the percentage or using the default value.

3. There is no sound from the microphone

3.1 Check whether the NEEWER microphone on the computer is set as the default device and check whether the NEEWER microphone on the software is set as the default recording device.
3.2 If all settings of the microphone seem to be correct, check whether the microphone privacy in the computer Windows 10 system is turned on and check whether the ""Allow desktop apps to access your microphone"" option is turned on. Check the operating indicator of the microphone. The blue light indicates the mic is in operational and the red light indicates that it is on mute.
3.3 Setting up the microphone in the wrong order will also cause the software to have no sound, especially when it comes to Mac systems. The correct steps to set up the mic: Connect the microphone first and then open the software. If this order isn't followed, please exit the software completely and connect the microphone before opening the

4. If you have any questions

Please contact us via https://neewer.com/

Specifications

Model	CM20
Functions	Recording, live-streaming, gaming microphone
Microphone Component	14mm condenser mic
Frequency Response	30Hz~18kHz
Sampling Rate	44.1kHz~48kHz
Bit Rate	16-bit
Polar Pattern	Cardioid
Sensitivity	17.5mV/Pa (at 1kHz)
Sound Pressure Level	125dB (at 1kHz THD<1%)
Distortion	<0.5% (1kHz)
Power Supply	DC USB 5V

包装清单

麦克风、数据线 ×1

手臂架 ×1

防震架 ×1

防喷网 ×1

扎带 ×5

防风棉 ×1

转换螺丝 ×1

系统要求

Windows7/8/10/11

macOS (10.10或更高) USB 1.1/2.0/3.0

Android6.0以上 IOS 9.0以上 HarmonyOS 1.0以上

1.1/2.0/3.0

安装说明

1.安装麦克风手臂架

① 将夹子推至桌子边缘，逆时针旋转把手拧紧固定。

② 再将支架插入夹子顶部的孔中，顺时针转动旋钮将其拧紧。

2.将防震架安装到支架管子上，将麦克风安装到防震架上，并顺时针水平旋转3-4圈，直到麦克风正面对人。

3.将防喷网安装到支架管子上，调整好与麦克风的角度。

4.将附带的USB数据线TYPE C接入麦克风及计算机或者手机

5.调整麦克风的角度，以保持麦克风咪头朝向声源。
6.调节增益大小，先小后大，逐部提高音量大小。

使用说明

① 静音按钮- 一键静音控制
② TYPE-C 接口- 通过USB数据线直接链接到计算机或者手机
③ 防震架- 减少录音时额外碰撞产生的噪音
④ 麦克风增益- 控制麦克风咪头的收音大小。顺时针旋转放大增益，逆时针旋转减小增益 调节范围30-330度
⑤ 麦克风手臂架- 用来吊挂麦克风
⑥ 麦克风防喷网- 过滤风声或说话时的喷气声
⑦ 数据线- 用于连接麦克风到计算机或者手机（苹果手机需OTG转接线连接TYPE-C）

USB-A/USB-C/OTG 指示

Windows10 系统设置

1.输入设置

麦克风接好数据线后，接入电脑USB接口无需安装驱动，连接成功后，咪头会亮蓝色灯。

1.1用鼠标右键单击屏幕右下角扬声器图标，点击"声音设置"

1.2单击声音控制面板

1.3选择"录制"选项，并选择"NEEWER CM20 MIC"作为默认设备。当使用麦克风说话时，麦克风的音量指示图标会变成绿色并跳动；若指示图标为灰色，请重启计算机并在USB端口中重新设置。

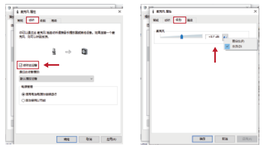
2.麦克风输入音量设置

2.1在麦克风前端(详见使用指南6)，适步调整增益旋钮。调节输入音量。双击"NEEWER CM20 MIC"进入麦克风属性，选择"级别"选项。右键单击选项下的小喇叭图标，选择分贝，拖动音量条以调整输入音量。

3. 电脑输出麦克风声音

3.1 在"声音"菜单中，选择需要播放声音的设备，如选择"Realtek High Definition Audio"，右键弹出菜单选择此设备为默认设备，电脑为外放声音。

3.2 在"录制"选项，双击麦克风"NEEWER CM20 MIC"-进入麦克风属性页面 -单击 -"侦听" -勾选"侦听此设备" - "应用"，就可以从电脑音响上听到声音。
(注意：当使用任何录音软件或聊天软件时，请取消勾选"侦听此设备")



注意事项：适用于MAC和Windows

1.如果计算机提示无法识别USB设备，请重新启动计算机并将麦克风连接到其他USB端口。
2.如果识别麦克风但没有声音，请检查系统声音是否静音，是否打开麦克风音量控制。
3.如果识别麦克风但没有声音，计算机系统为Window10,请进入设置-隐私-麦克风，并单击允许应用程序访问麦克风，然后重新连接麦克风。

MAC电脑设置

1.将所提供的USB线连接计算机USB端口。
2.连接成功后，咪头会亮蓝色灯。
3.选择NEEWER CM20 MIC 作为音频输入，打开系统首选项。

4.单击"系统偏好设置"，选择"声音"，打开属性页面。

5.单击"输入"选项，选择NEEWER CM20 MIC 作为声音输入设备，可以拖动下方音量调节麦克风的输入音量。

6.在"输出"选项，将输出设备更改为内置扬声器，可以听到电脑外放的声音。

7.默认设备是扬声器情况下，无法实现实时监听麦克风；如需监听自己的声音，可以启动一个录音软件 (如 Audacity 或 QuickTime) 并选择软件的监听功能。

注意事项：适用于MAC

1.使用苹果电脑时，如果不是用麦克风来监听声音，而是通过电脑或者和音箱来扩音，必须借助录音软件的监听功能才能实现。常用录音软件有Audacity 或 QuickTime。调整软件设备，选择录制时监听音频，然后点击录音键，便可实现一边说唱，一边可从电脑音箱处听到声音。

2.Macbook中使用语音转换文字时，选择默认的对话和语音软件，点击对话窗口下的"打开"，以便软件可识别麦克风。

3.如果MAC只有USB-C端口，需一个原装苹果USB C到USB母头适配器来连接。先将USB转接头连接MAC，然后连接麦克风数据线。

麦克风声音常见异常情况及解决方案

1. 麦克风音量过大：

1.1出现刺耳啸叫声，炸麦或者啦啦声，电流声。一般通过调小麦克风音量便可解决。有两种方式可以调节增益：a 通过麦克风自带音量键调小；b 不带音量键的麦克风通过设置电脑麦克风属性的级别参数，将其调小。
1.2出现回音情况，声音感觉空旷，可以尝试调小音量，检查电脑侦听功能是否关闭，检查声源是否正对着麦克风的正面。

2. 麦克风音量忽大忽小：

2.1这是某些软件自带的自动调节麦克风音量的功能引起，导致声音断断续续，不稳定，失真，音量参数自动跳动等异常情况。
2.2带有此功能的软件，常见有QQ、腾讯会议、钉钉等，这些软件需要在设置上去掉该功能，推出软件，重启麦克风即可。
2.3某些特定的网站脚本带了自动增益功能导致声音异常，此问题非麦克风方面问题，暂无调试方案。
2.4某些游戏的语音系统在自由发言状态是以语音激活阀值来激活麦克风的，麦克风在游戏中无法使用时请调低或者使用默认值便可恢复正常。比如英雄联盟的语音激活阀值，高于65%就出现断断续续的通话情况或者无声。调低或者使用默认值就恢复正常了。

3. 麦克风一直没有声音：

3.1检查电脑上NEEVER麦克风是否作为默认设备。检查软件上NEEWER麦克风是否作为默认录入设备。
3.2麦克风所有参数都正确的情况下，检查电脑WIN10系统的麦克风隐私是否为打开状态，检查选项 "允许桌面软件使用麦克风" 选项是否打开状态。查看麦克风的工作指示灯，蓝灯是工作状态，红灯是静音状态。
3.3麦克风使用顺序不对也会导致软件无声音，尤其在MAC系统比较常见，正确顺序：先连接麦克风，再打开软件，若顺序不正确，需完全退出软件后重新按照正确顺序操作。

4. 如果有任何问题

请联系我们https://neewer.com/

产品参数

型号	CM20
类型	录音直播游戏麦
咪头	14mm电容拾音头
频率响应	30Hz-18KHz
采样率	44.1kHz-48kHz
比特率	16Bit
指向模式	心型
灵敏度	17.5mV/Pa(at 1kHz)
声压级	125dB(at 1kHz THD<1%)
失真	<0.5%(1kHz)
供电方式	USB/Type-C数据线外接供电

UK REP
Lingfeng Electronic (UK) Ltd
International House, 10 Churchill Way, Cardiff, CF10 2HE, United Kingdom

EC REP
NW Formations GmbH(for authorities only)
Hofenstrasse 9B, 71636 Ludwigsburg, Germany

Shenzhen Neewer Technology Co.,Ltd.
Room 1903, Block A, Lu Shan Building No. 3023 Chunfeng Rd Luo Hu District, Shenzhen Guangdong 518001, China

M20说明书
105g双铜纸/80*120mm/双面四色印刷/骑马钉