BOYA

Conference Speakerphone

视频会议全向无线麦克风

Blobby Pro

User Manual

用户手册

Statement

Please read this manual carefully before using and strictly operate and store it in accordance with the instructions. Please save the manual for your future reference. If you need further assistance than the user manual, please consult your retailer for help or email us: sales@boya-mic.com

Cautions

1. If you do not intend to use the speakerphone for a long period of time, please remove the USB cable.
2. Please keep it away from heat sources such as radiators or spotlights.
3. When using and storing, please keep away from the dust and moisture.
4. Be careful with violent collisions.
5. To avoid acoustical feedback, do not hold the speakerphone close to the loudspeakers.
6. For the best pick-up pattern, do not hold your hand against the microphone capsule cover.

Introduction

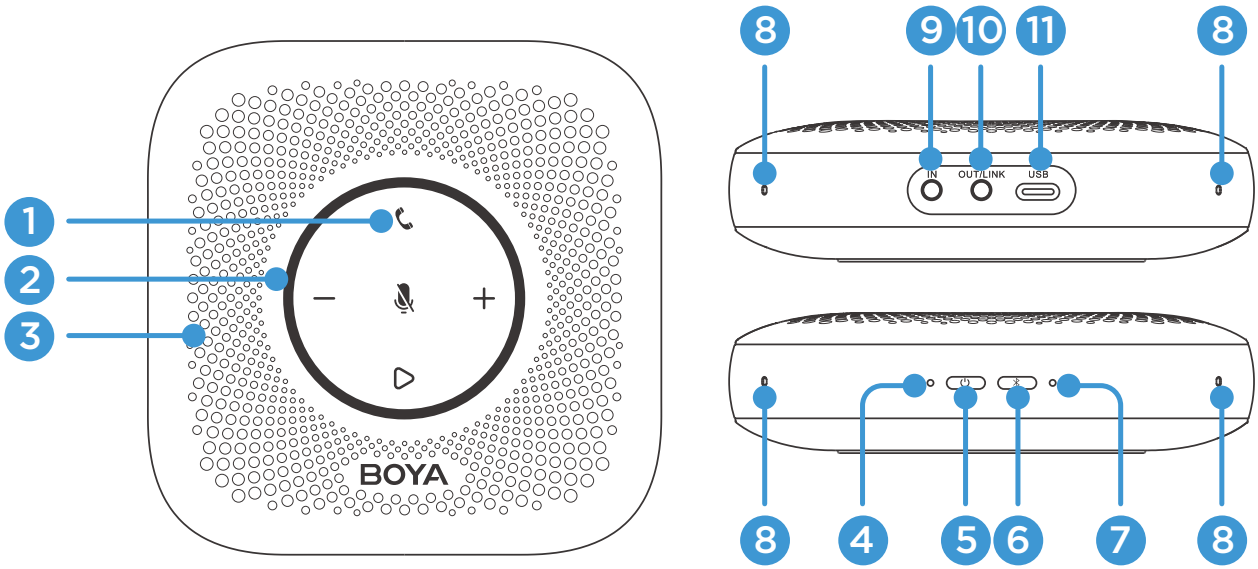
The BOYA Blobby Pro, a professional condenser speakerphone with an omnidirectional polar pattern, is perfect for use with small and medium-sized teleconferencing, video conferencing, meetings, online classes, live streaming, and more. Connect your Blobby Pro to a laptop, tablet, or smartphone via Bluetooth, USB-C port, or 3.5mm TRS analog port. Compatible with Windows, macOS, and Linux operating systems, it can be used with all leading conference call services. A headphone or speaker can be connected to it for real-time audio monitoring.

With a 4-element array and a 3-meter pickup radius, the speakerphone can pick up the voice at 360 degrees to cover small and medium-sized conference rooms. With the acoustic echo cancellation and clear voice capture, the speakerphone focuses voice pickup and suppresses background noises allowing individual talkers to be heard clearly. What's more, a cascade cable (available separately) allows two speakerphones to be connected and work together to cover larger meeting spaces and more meeting participants, providing flexible audio extension solutions.

Features

- 4-element mic array focuses 360-degree of audio pickup in up to a 3-meter radius
- High-sensitivity and high-fidelity speaker for clear sound quality
- Built-in rechargeable lithium-ion battery – up to 16-hour battery life
- USB, Bluetooth, and 3.5mm TRS analog audio connectivity
- Allows to connect two devices to the speakerphone at a time
- Plug-and-play USB-C port with no need to install a driver which supports use while charging
- Acoustic echo cancellation (AEC) and clear voice capture (CVC) suppress background noises
- Touch panel for controlling mute, calls and volume
- Intuitive ring light for indicating status of volume and sound localization
- Intuitive ring light for indicating the status of volume and sound localization
- Allows the two speakerphones to be combined to cover larger meeting spaces
- The anti-slip pad of its bottom for remaining stable
- Durable metal enclosure

Product Overview



① Touch Panel

Buttons	Function
	While a call comes in, tap it to answer or end the call; tap and hold it for 1.5 seconds to reject the call.
	When connected, tap it to mute or unmute the microphone.
	Tap to pause or play music.
+	Tap to turn up the volume.
−	Tap to turn down the volume.

NOTE:

The volume of the connected smartphone, tablet, or computer will sync with the speakerphone.

② Status Ring Light

Status	Indicator	Voice Prompt
Power on	Blue light stays on for 1 seconds	“Power on”
Sound localization	Blue light stays on in the direction of a sound source	/
Mute	Static red	/
Volume up (+2)	One light up clockwise	“Di”

Volume down (-2)	One light off counterclockwise	“Di”
Maximum gain	Ring light stays on	“Di——”
Minimum gain	Ring light stays off	“Di——”
Low battery	Blinking red once every 5 seconds	“Battery low”

③ Speaker

④ Power Indicator

Status	Indicator	Voice Prompt
Power on	Static blue	“Power on”
Low battery	Blinking red slowly	“Battery low”
Charging	Static red	/
Fully charged	Static blue	/
Power off	Red light is on for 1 seconds	“Power off”

⑤ Power Button

Press and hold ⏻ for 3 seconds to power on or off.

⑥ Bluetooth Pair Button

Press and hold ᛒ for 3 seconds to turn on Bluetooth.

⑦ Bluetooth Indicator

Status	Indicator	Voice Prompt
Pairing	Blinking blue rapidly	“Pairing”
Connected	Static blue	“Connected”
Disconnected	Blinking blue slowly	“Disconnected”

⑧ Microphone Capsule

⑨ 3.5mm TRS Input

For audio input from a smartphone, tablet, or computer.

⑩ 3.5mm TRS Output (TRRS Cascade Control)

For plugging your headphones or a speaker in to monitor or play your audio while recording. Can also be used for plugging a cascade cable in for connecting two Blobby Pro speakerphones.

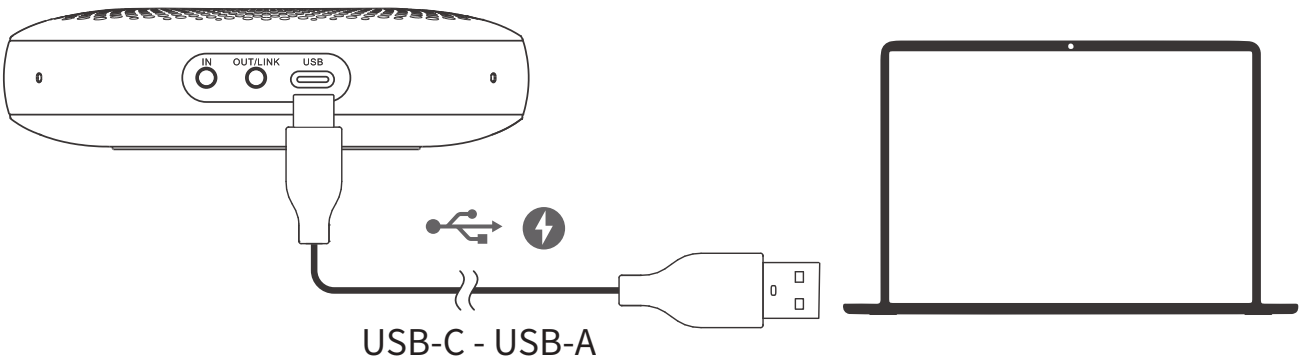
⑪ USB Type-C Data (Charging) Port

For audio input and charging simultaneously after connecting a computer. Can also be used for charging.

How to Use

USB Connection

Connect the speakerphone to your computer with a USB-C cable. The "Blobby Pro" model will appear on the computer while it's connected, which enables charging and transferring audio.



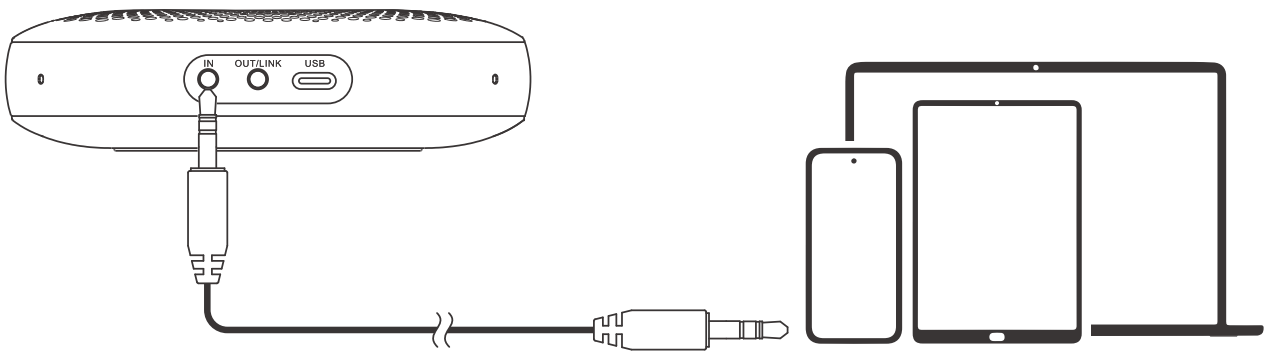
USB-C - USB-A

NOTE:

The computer only can charge the unit if you use a USB-C charging cable which does not support data and audio.

Analog Audio Connection

Connect your smartphone, tablet or computer to the IN port of the speakerphone with a 3.5mm TRS cable to transfer audio.



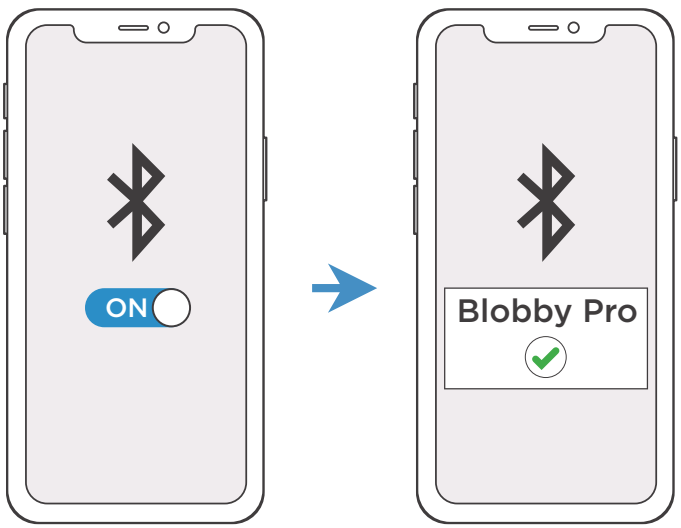
3.5mm TRS - 3.5mm TRS

Bluetooth Connection

1. Press and hold the power button ⏻ for 3 seconds to turn on the speakerphone. Press and hold the Bluetooth pair button ᛒ for 3 seconds to turn on Bluetooth, then "Pairing" will be heard. The indicator blinks blue rapidly.

2. Turn on the Bluetooth feature on your device. Select "Blobby Pro" from the device list.

3. Once paired, you hear "Connected" and the indicator lights static blue.



Note:

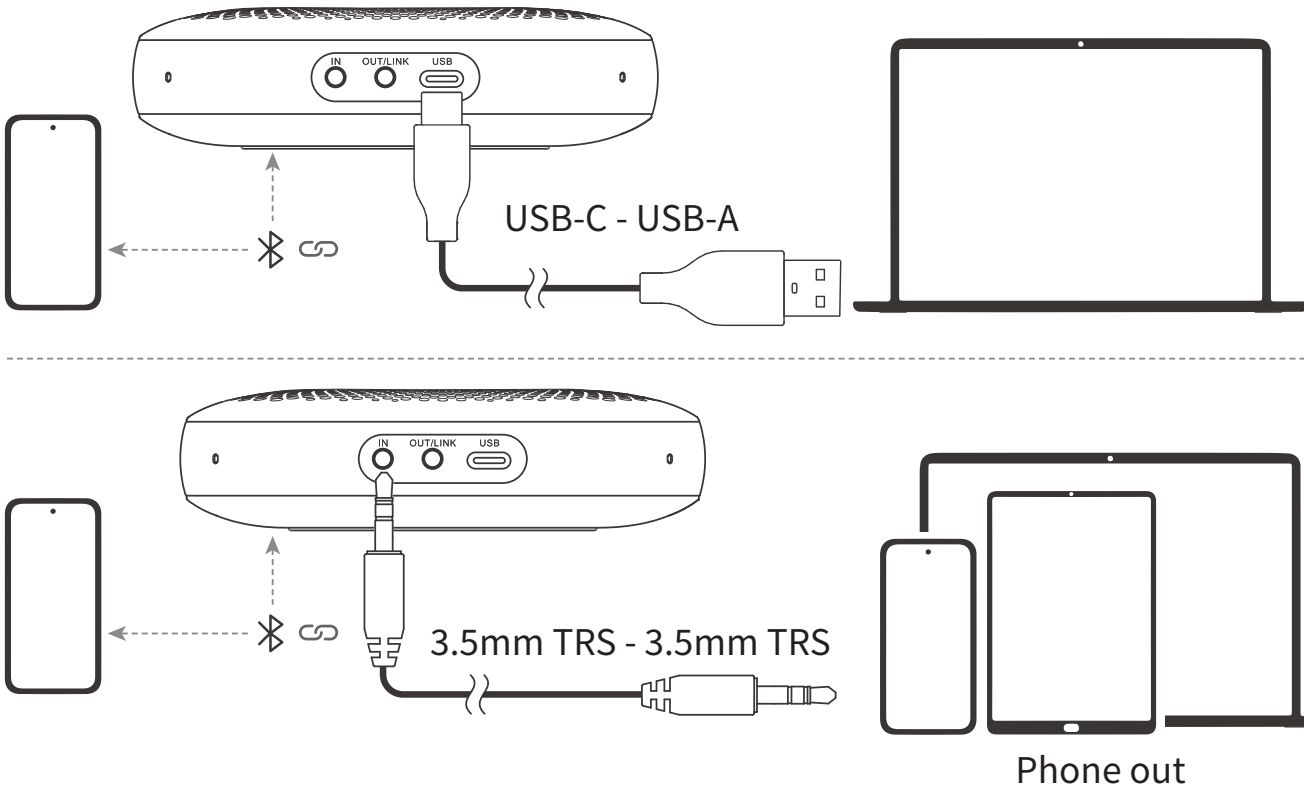
• The Bluetooth will be disconnected when the device's Bluetooth feature is turned off or the operating range exceeds. You hear "Disconnected" and the indicator blinks blue slowly. The speakerphone goes into pairing mode automatically after about 5 minutes.

• To disconnect a paired device, press and hold the Bluetooth pair button ᛒ for 3 seconds to enter pairing mode again. The connection can be re-established by pressing the Bluetooth button once.

• If the connection is not established within 10 minutes in pairing mode, the speakerphone will automatically power off.

Connection with Two Devices

For Blobby Pro, up to two devices (a USB device and a Bluetooth device, or a Bluetooth device and a 3.5mm TRS device) can be connected to the speakerphone at once.



Note:

• After the speakerphone is connected to two devices, only the sound of one device can be played. Sound from the devices is prioritized as follows: USB > Bluetooth > 3.5mm TRS. (That is, while a USB device and a Bluetooth device play audio simultaneously, priority is given to the audio output through the USB port, and audio output from the Bluetooth device is disabled. While a Bluetooth device and a device connected to the 3.5mm TRS Input jack play audio simultaneously, priority is given to the audio output from the Bluetooth device, and audio output from the other is disabled.)

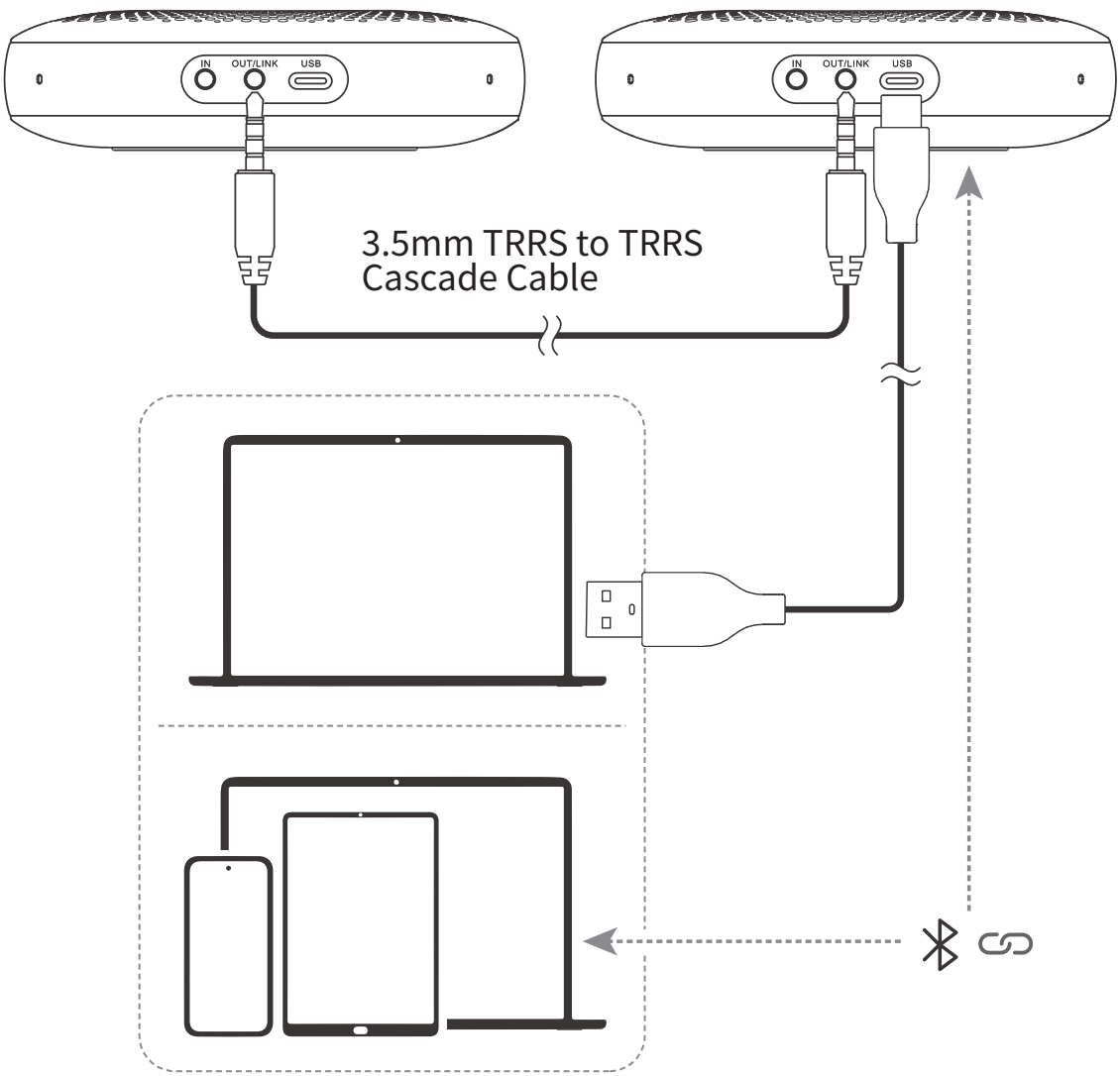
• Under USB mode, if your phone receives an incoming call, the audio on your phone will be switched to the speakerphone automatically. After the call ends, the USB mode will be automatically resumed.

Cascade Control

1. With the cascade cable (available separately), you can connect two Blobby Pro speakerphones via the OUT/LINK port, which ensures that the microphone and speaker sounds of two devices are combined to have large meetings with up to 15-30 participants.

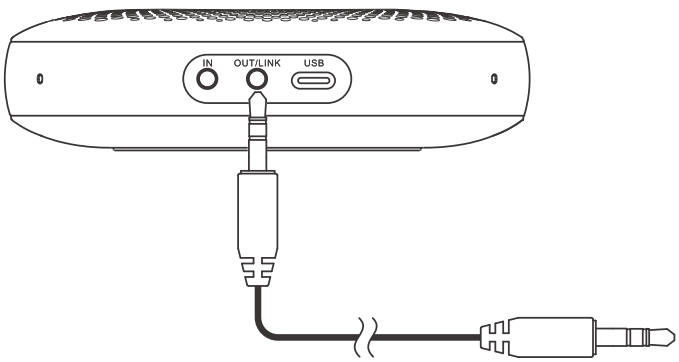
2. The one connected to your smartphone, tablet or computer via USB or Bluetooth connection is the master, and the other one is the slave. The speakers and microphones of the two devices are synchronized to one another. The slave's mute feature may controlled by the master (NOTE: The master's mute feature cannot be controlled by the slave.)

3. Access a video-conferencing app on your device, then start a meeting.

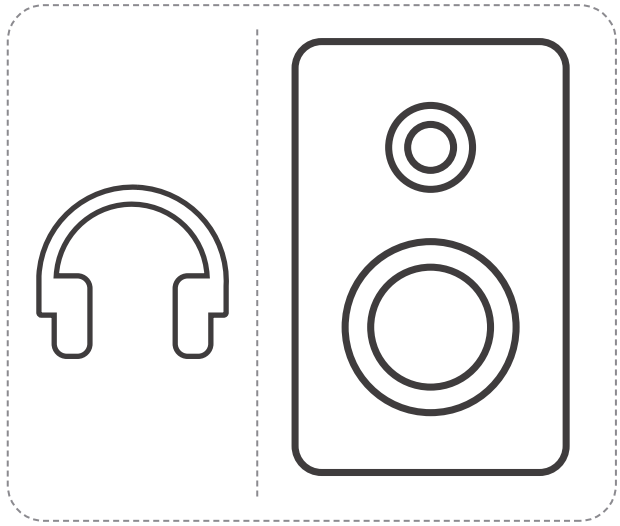


Audio Output

Plugging your speaker or headphones into the OUT/LINK port to monitor your audio or transfer audio of your smartphone/ computer on a conference call.

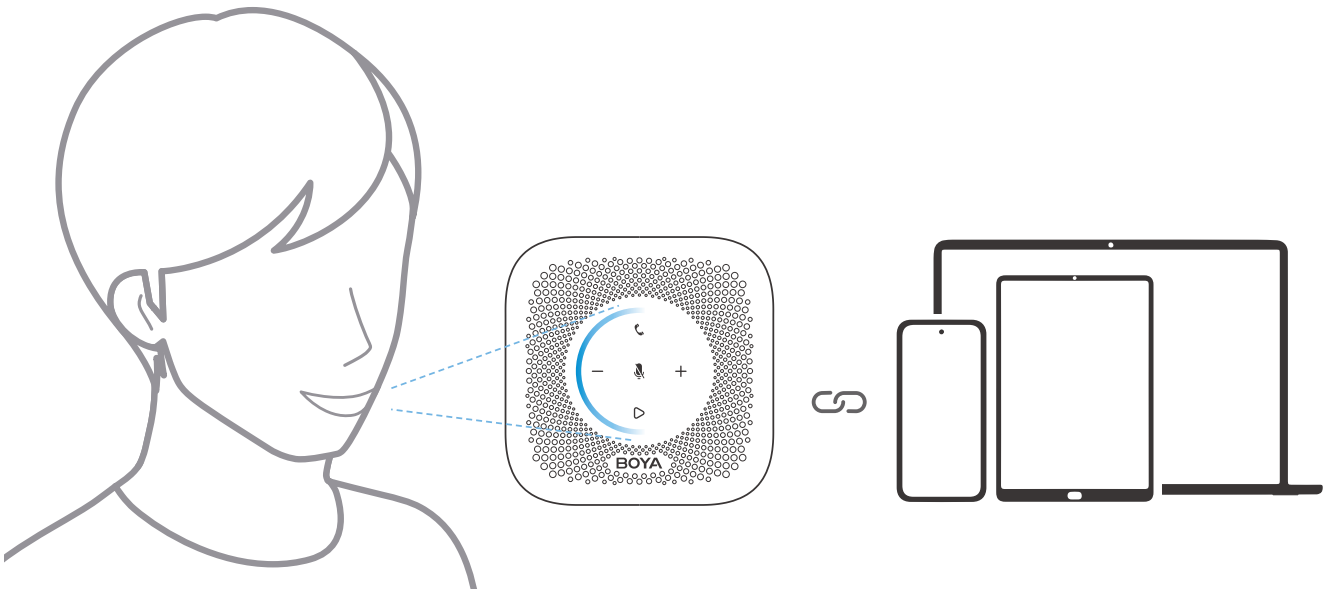


3.5mm TRS - 3.5mm TRS



Sound Localization

When the speakerphone is connected to a device, Sound Localization will be enabled automatically which can help you determine the orientation of the person speaking in a conference room.



Note:

If your speakerphone were not connected to any device, its Sound Localization would not be displayed on the ring light.

Smart Audio Processing

The acoustic echo cancellation (AEC) and clear voice capture (CVC) features will be switched on automatically on a conference call. This makes it easier for participants to hear each other and reduces or eliminates echo in remote communication. Also, this will help pick up the talker's voice while filtering out background noise such as buzzing, which can help improve sound quality and make online communication smoother.

Troubleshooting

If you encounter problems when using the unit, please refer to the following checklist before contacting technical support. If the problem cannot be solved, please contact the dealer's after-sales service department.

• No sound

① Make sure the speakerphone is well connected to your device properly.

② Make sure the audio cable/ data cable/ cascade cable is connected correctly.

③ Make sure the speakerphone is not muted.

④ Make sure the volume from your smartphone or computer is not turned to a minimum.

⑤ Check whether the unit has been connected to the two devices via USB and Bluetooth at the same time. In this case, the speakerphone only plays audio from the USB port.

⑥ The speakerphone is connected to two devices via USB/ analog port and Bluetooth. In this case, if no sound is played from the speakerphone when the Bluetooth device is disconnected, please remove and then reconnect the USB/ audio cable to the speakerphone.

• Current noise or other abnormal noise appears during monitoring

① Make sure there is no interference near the unit. If the noise still exists after changing the unit's position, please contact our customer service.

② Check whether the volume from the speakerphone is too loud. If yes, please adjust it to the appropriate level.

• The Bluetooth connection fails

① The speakerphone may already be connected to another smartphone or computer. Press and hold the Bluetooth pair button of the unit for 3 seconds to enter pairing mode again. When its Bluetooth indicator blinks blue rapidly, try connecting your device again.

② Turn the speakerphone off and then on. Connect again.

③ Turn the Bluetooth feature on your device off and then on. Connect again.

• The cascade control fails

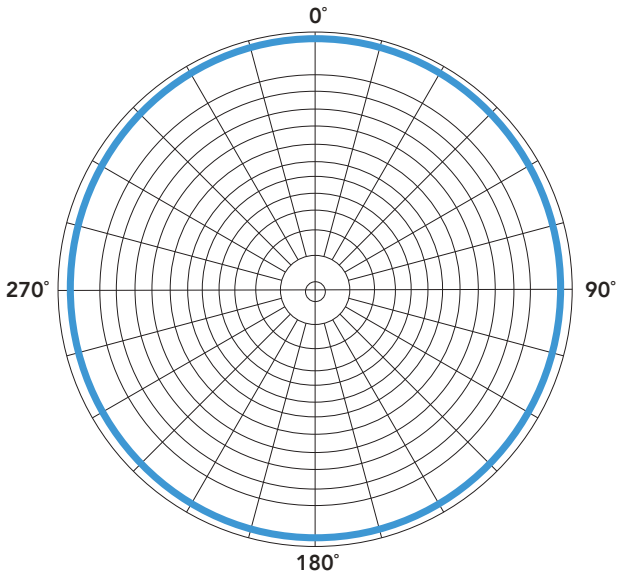
① Make sure the speakerphone is well connected to your device properly. Make sure the cascade cable used is right.

② Turn the two speakerphones off and then on. Try again.

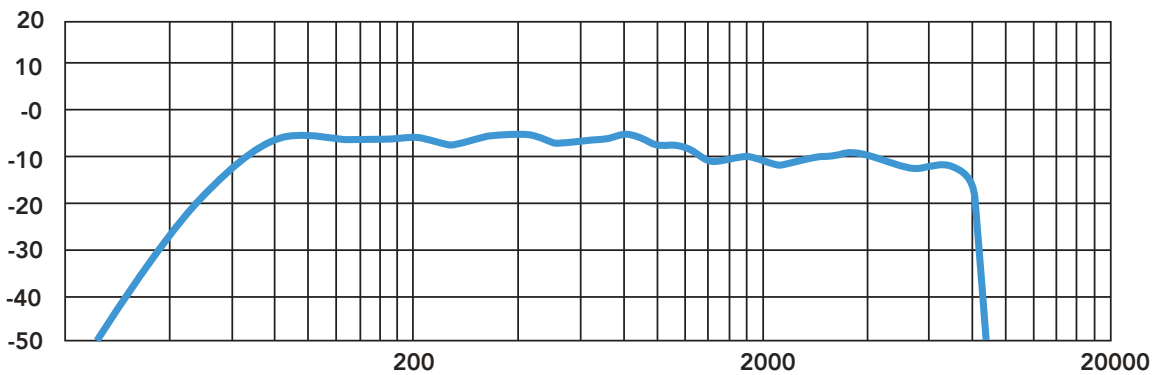
Specifications

Microphone Type	4-element microphone array
Polar Pattern	Omnidirectional
Pickup	360° (3m radius)
Microphone's Frequency Response	20Hz-20kHz
Speaker's Frequency Response	20Hz-20kHz
Audio Processing	Acoustic Echo Cancellation (AEC), Sound Localization, Clear Voice Capture (CVC)
Sensitivity	Built-in Microphone: -31dB±1dB (94 dB SPL @ 1 kHz)
Sampling Rates/ Bitrate	Playing: 48kHz/ 16bit Recording: 16kHz/ 16bit
Signal-to-Noise Ratio	＞60dB
Maximum SPL	Built-in Microphone: 120dB SPL
RF Output Power	6dBm
Transmission Method	Wired: USB Type-C Port (USB 2.0) Wireless: Bluetooth/ 2.4GHz (Bluetooth V5.0)
Bluetooth Version	V5.0
Bluetooth Range	30 meters (Measured in open environment without obstacles and interference.)
Audio Input	3.5mm TRS Input (IN), Built-in 4-element microphone array
Audio Output	3.5mm TRS Output/ TRRS Cascade Control (OUT/LINK), USB Type-C Data Port
OS Requirements	Window11, 10,8.1, 8.7, Vista, XP, Linux, macOS
Compatibility	Zoom, Skype for Business, Webex, Google Hangouts, Teams, Face Time, DingTalk, VooV Meeting, WeCom, QQ
Battery Type	Built-in lithium-ion battery
Battery Capacity	5200mAH
Charging Port	USB Type-C (DC 5V/2A)
Battery Life	Approx. 16 hours
Charging Time	Approx. 3 hours
Dimensions(L×W×H)	114mm×114mm×30.5mm
Weight	322.5g
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to 55°C

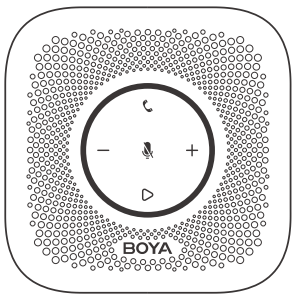
Polar Pattern



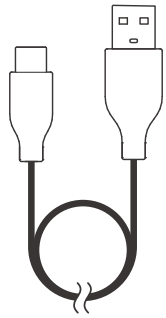
Frequency Response



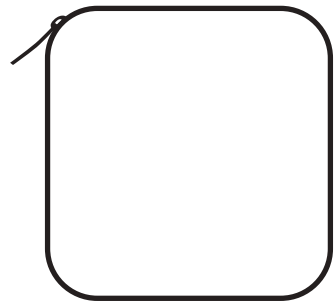
In the Box



Blobby Pro Conference Speakerphone ×1

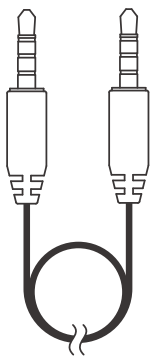


USB-C to USB-A Cable ×1



Carrying Pouch ×1

Other Audio Cable (Sold Separately)



3.5mm TRRS to TRRS Cascade Cable

声明

请在使用前仔细阅读本手册，并严格按照说明进行操作和存储。请妥善保存好说明书以供将来参考。如果用户手册不能帮助您解决某些问题，请向零售商寻求帮助或给我们发送电子邮件：sales@boya-mic.com

注意事项

1.如果您长时间不使用麦克风，请拔下USB线；

2.请勿将本机靠近热源，如散热器、聚光灯或其他产生热量的设备；

3. 使用和存放时，请注意防尘和防潮；

4. 避免剧烈碰撞；

5. 为避免声反馈，请勿将麦克风靠近扬声器；

6. 为获得最佳拾音效果，请勿将手放在麦克风咪头上。

概述

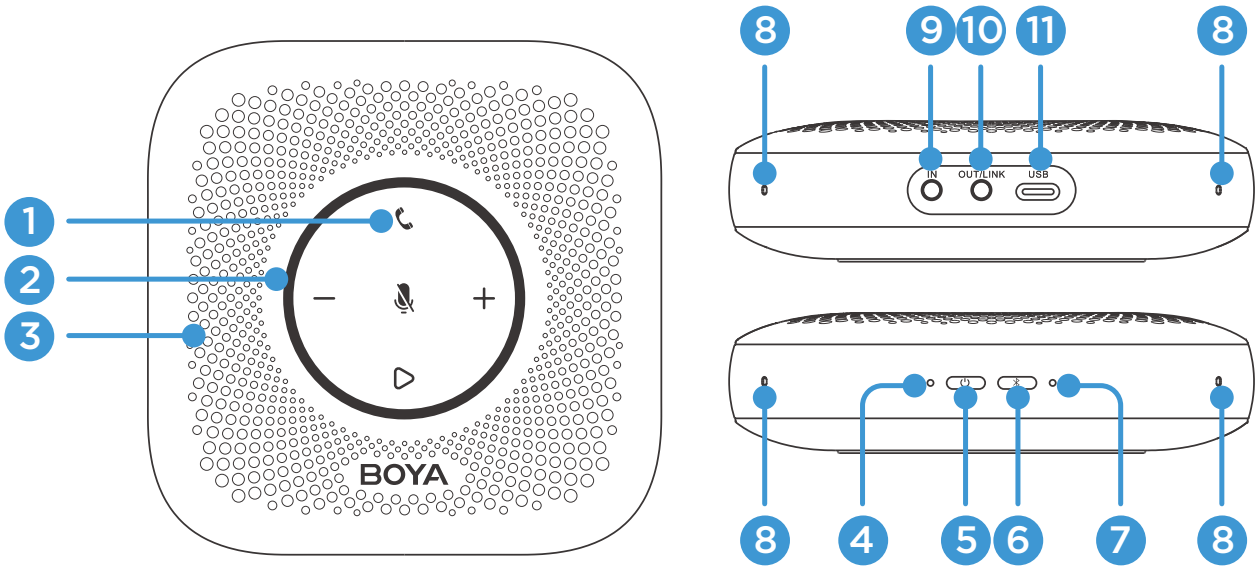
博雅Blobby Pro是一款专业级全向会议麦克风，适合中小型远程音视频会议、常规会议、线上授课、家庭视频、网络直播等使用场景。可通过蓝牙无线连接，也可以通过USB Type-C数据线或音频线连接会议平板、电脑、手机等设备使用，兼容Windows、macOS、Linux操作系统，全面兼容主流视频通话软件及APP，支持连接耳机或音箱进行实时监听。

产品内置4路单向高灵敏度麦克风阵列，3米拾音半径，可实现360°全方位拾音，无死角覆盖中小型会议室，搭载回声消除和通话降噪算法，过滤杂音，只留人声，为您的会议通话提供清晰流畅的音质，给您更好的音视频会议体验。此外，Blobby Pro还支持两台级联扩展，适合更大的会场环境及更多的参会人数，让使用场景更加多变。

特点

- 内置4阵列麦克风，支持3米范围内的360°清晰拾音
- 内置高灵敏度高保真扬声器——提供清晰的声音
- 内置可充电锂电池——续航长达16小时，保证会议时长
- 支持蓝牙、USB-C数据线、3.5mm TRS音频线三种方式连接
- 支持同时双设备连接
- USB端即连即用，无需安装任何驱动且支持边充边用
- 内置回声消除（AEC）、通话降噪（CVC）音频处理算法，保留清晰人声
- 触摸面板控制，一键触控静音/通话/音量
- 环形灯直观显示音量状态及声源定位
- 支持两台级联扩展，适合更大的会场环境
- 底部设计有防滑胶垫，安心放置不滑动
- 金属外壳，坚固耐用

产品结构



① 触控面板

按键	功能
	来电时，轻触此键可接听/挂断电话；长按1.5秒可拒接来电。
	连接成功后，轻触此键可将麦克风静音/取消静音。
	轻触此键可暂停/播放音乐
+	轻触此键可增加音量
—	轻触此键可减小音量

注意：

本机连接到设备时支持音量与手机/平板/电脑端同步。

② 状态指示灯环

设备状态	指示灯环	提示音
开机	蓝灯亮1秒	“Power on”
声源定位	对应声源方位的灯环亮蓝灯	/
静音模式	红灯常亮	/
音量增加两档	顺时针亮一格	“Di”

音量减小两档	逆时针熄灭一格	“Di”
最大音量	灯环全亮	“Di——”
最小音量	灯环全熄	“Di——”
低电量	红灯5秒闪烁一次	“Battery low”

③ 扬声区

④ 电源指示灯

设备状态	指示灯	语音提示
开机	蓝灯常亮	“Power on”
低电量	红灯慢闪	“Battery low”
充电中	红灯常亮	/
充满电	蓝灯常亮	/
关机	红灯亮1秒后熄灭	“Power off”

⑤ 电源键

长按 ⏻ 3秒开/关机。

⑥ 蓝牙配对键

长按 ᛒ 3秒进入蓝牙配对状态。

⑦ 蓝牙指示灯

设备状态	指示灯	语音提示
配对中	蓝灯快闪	“Pairing”
连接成功	蓝灯常亮	“Connected”
断开连接	蓝灯慢闪	“Disconnected”

⑧ 麦克风拾音孔

⑨ 3.5mm TRS音频输入孔

可连接到手机，平板或电脑等终端设备进行音频传输。

⑩ 3.5mm TRS音频输出孔（TRRS级联孔）

可在录音时接入耳机监听，或接入音箱播放；且支持与另一台Blobby Pro级联。

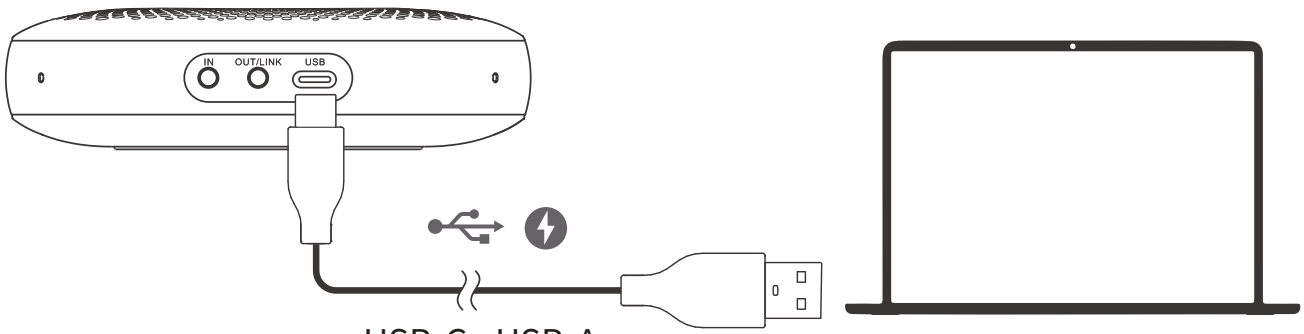
⑪ USB Type-C数据（充电）接口

可接入电源为本机充电；也可连接到电脑端，同时进行音频传输和充电。

操作指南

USB连接

使用随附的USB-A转USB-C数据线将麦克风连接至电脑，成功连接后，电脑端显示型号“Blobby Pro”，即可进行音频传输和充电。



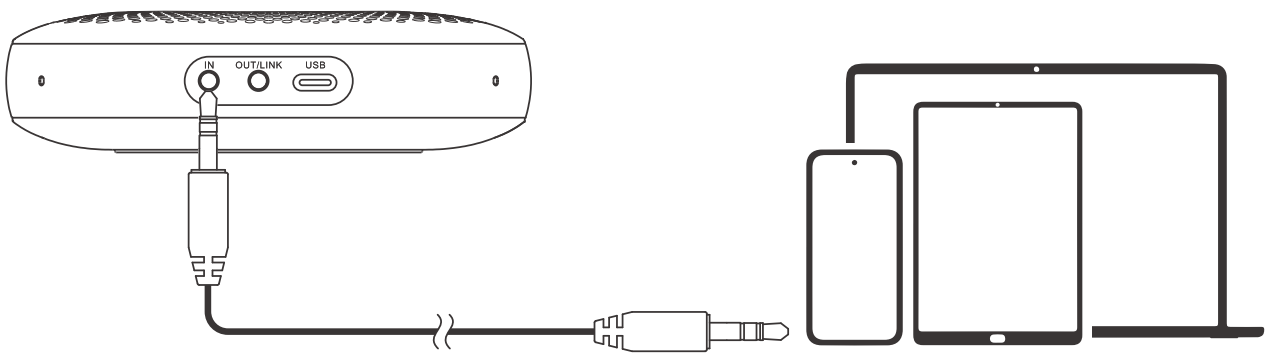
USB-C - USB-A

注意：

若您使用的是无音频数据传输功能的USB-C充电线连接，电脑仅可以对本机进行充电。

音频线连接

使用3.5mm TRS音频线将麦克风连接至手机、平板或电脑，成功连接后，即可进行音频传输。



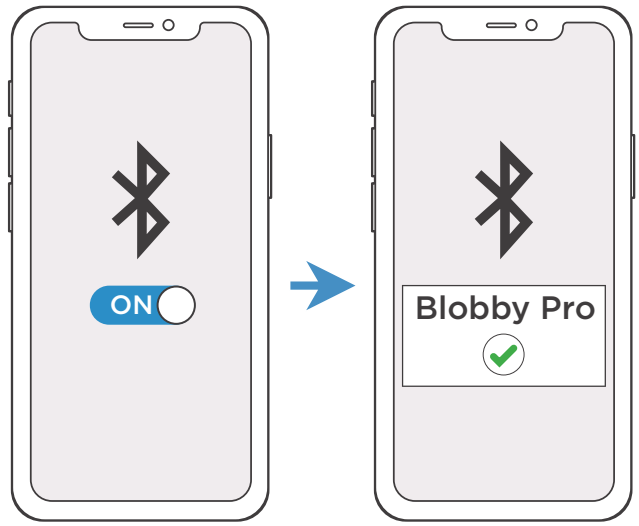
3.5mm TRS - 3.5mm TRS

蓝牙连接

1.长按电源键3秒将产品开机，再长按蓝牙配对键3秒进入配对模式，您将听到“Pairing”的语音提示，此时指示灯呈蓝灯快闪状态。
2.在您设备上打开蓝牙功能，从设备列表中选择“Blobby Pro”。
3.蓝牙连接成功后，您将听到“Connected”的语音提示，此时蓝牙指示灯呈蓝灯常亮状态。

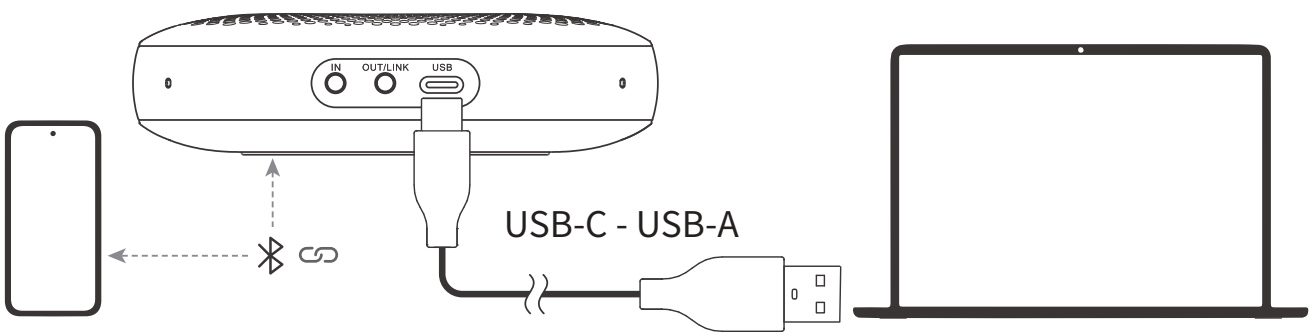
注意：

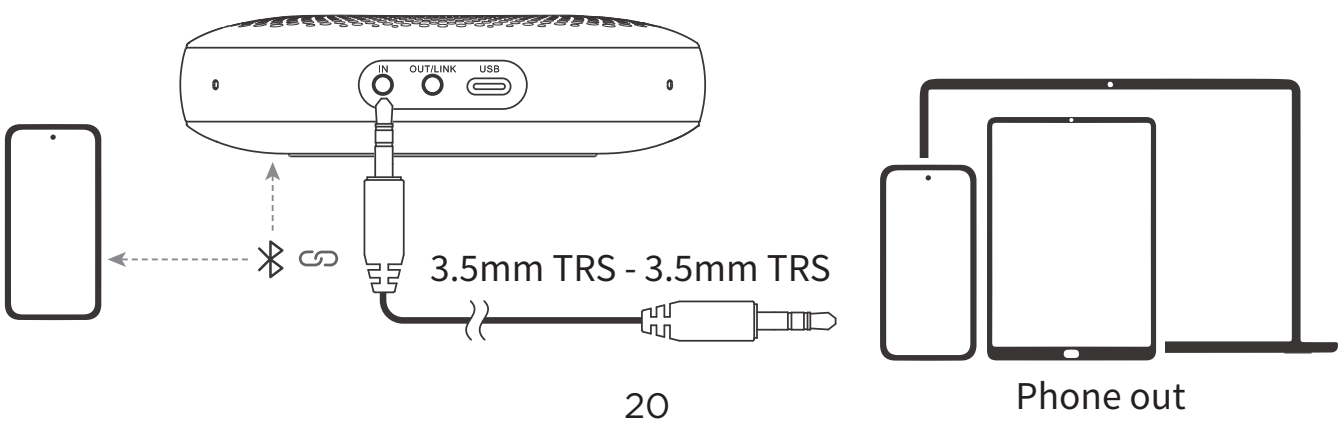
• 当设备蓝牙被关闭或使用距离超出范围时，设备端断开蓝牙连接，您将听到“Disconnected”的语音提示，指示灯呈蓝灯慢闪5分钟后，产品将自动进入配对模式。
• 蓝牙已连接状态下，长按蓝牙配对键3秒，可以断开与当前设备连接，重新进入配对状态；短按蓝牙配对键，产品自动回连手机。
• 配对模式下若10分钟内未连接任何设备，麦克风将自动关机。



双设备连接

Blobby Pro支持USB端和蓝牙端（或3.5mm TRS端和蓝牙端）同时连接两台终端设备。





注意：

• 双设备连接时，Blobby Pro只能播放其中一个设备的声音。声音播放的优先级如下：USB端＞蓝牙端＞3.5mm TRS端。即当USB端和蓝牙端同时播放音频时，USB端优先播放声音，蓝牙端无声。当蓝牙端和3.5mm TRS端同时播放音频时，蓝牙端优先播放声音，3.5mm TRS端无声。

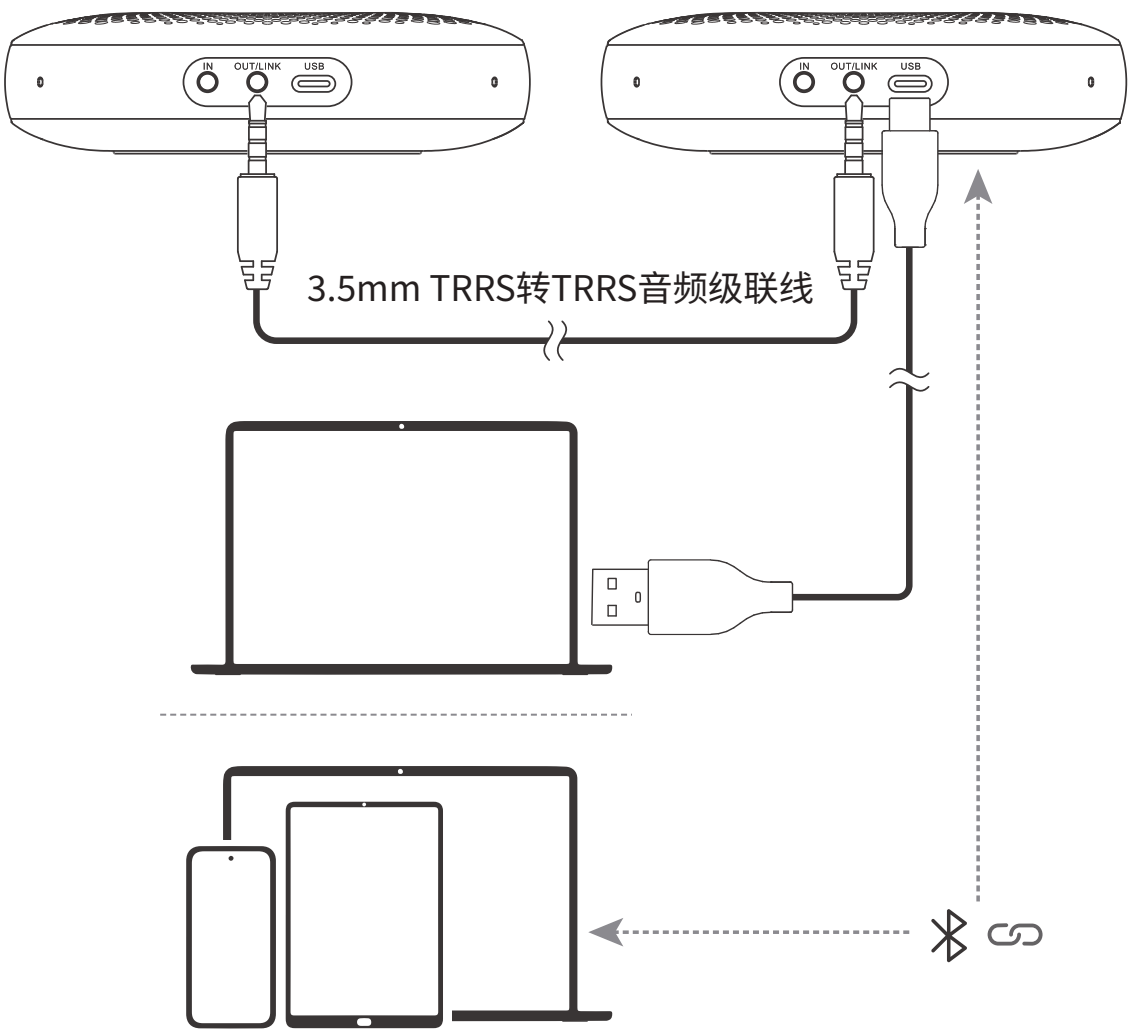
• 在USB模式下，若手机来电，会自动切换到来电模式通话；通话结束后会自动返回到USB模式。

级联功能

1.将两台Blobby Pro的OUT/LINK孔通过3.5mm TRRS转TRRS级联线连接，可拓展扬声器放音及麦克风拾音的范围，兼容15-30人的中大型视频会议。

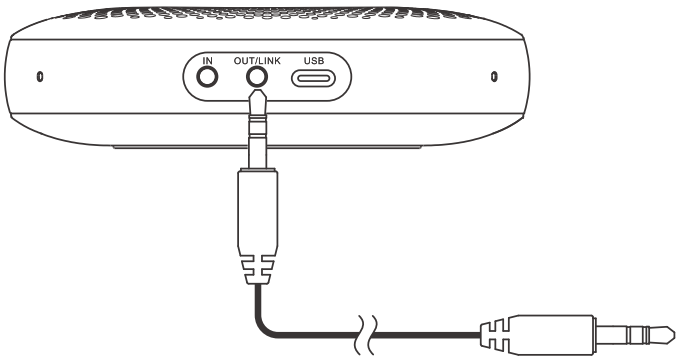
2.通过USB连接或蓝牙连接将其中一台Blobby Pro连接至电脑或平板/手机后，此台便成为主机，另一台则为从机。主机和从机的扬声器与麦克风将完全同步，同时主机可以操控从机静音功能。(注意：从机无法操控主机静音功能。)

3.打开设备端会议软件或视频软件便可以体验级联功能。

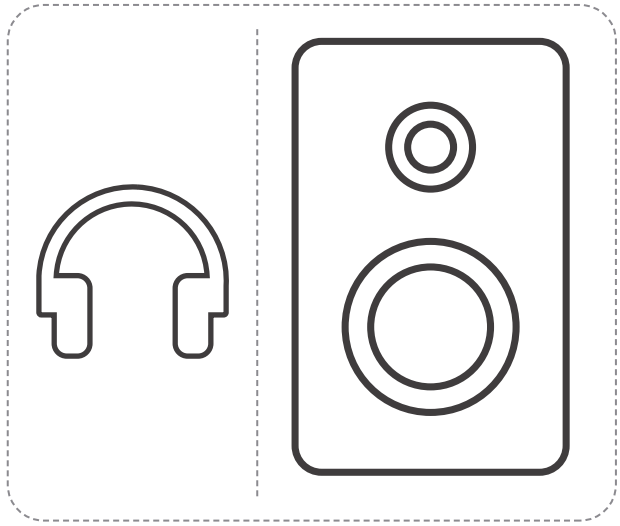


音频输出

将扬声器或耳机插入本机的OUT/LINK端口以可监听会议音频或中转手机/电脑的音频。

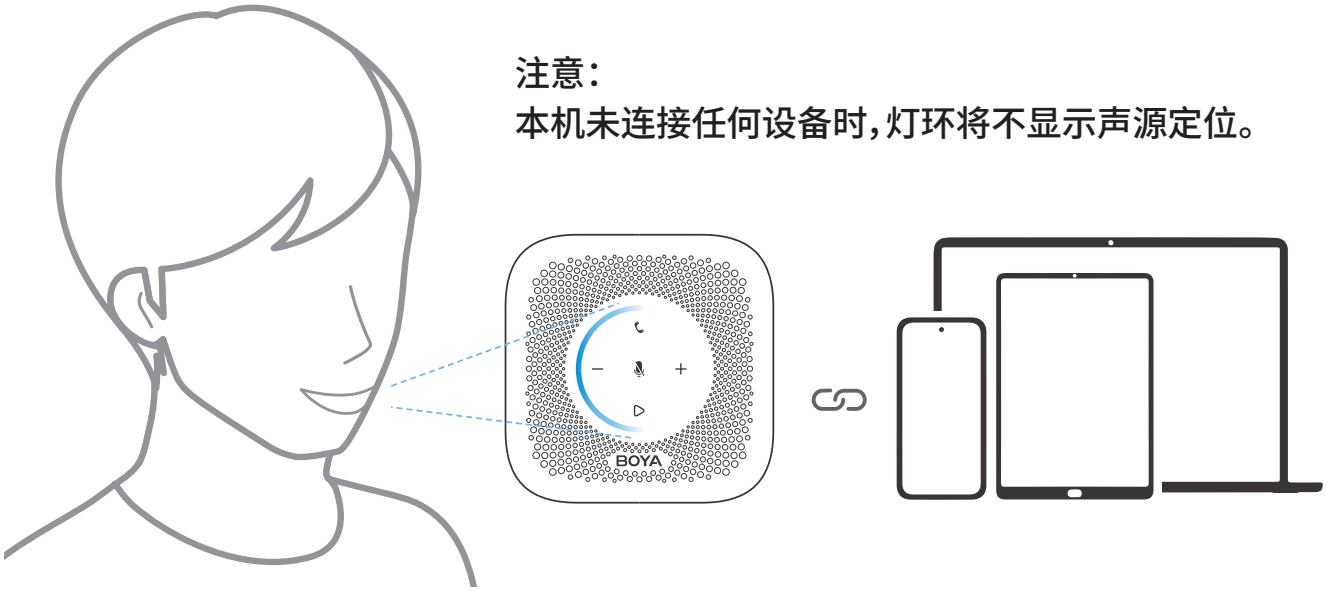


3.5mm TRS - 3.5mm TRS



声源定位

本机在成功连接设备状态下，声源定位功能自动开启，以便在会议室中确定发言者的方位。



注意：

本机未连接任何设备时，灯环将不显示声源定位。

智能降噪

进行会议通话时，Blobby Pro内置的AEC回声消除及CVC通话降噪功能会自动开启，可清除远程通话中产生的回声，轻松消除会议室杂音，有效过滤空调嗡嗡声，风扇声等静态的环境噪音，拾取清晰人声，让线上会议更流畅。

故障排除

在使用本机的过程中出现任何问题，请参照以下内容加以解决。如果此手册仍然无法解决您遇到的问题，请与我们当地的经销商售后服务部联系。

• 本机无声音

①检查本机是否连接正常以及转接线是否有松动。
②检查音频线/数据线/级联线是否接错或接反本机插孔。
③请验证本机是否开启了静音模式。
④检查本机以及手机/电脑端的音量是否被调至最低。
⑤请验证本机是否同时连接了USB端和蓝牙端，在该情况下，本机仅播放USB端音频。
⑥双设备连接时，若断开蓝牙连接后，USB或音频线连接端播放无声，请您重新插拔USB数据线/音频连接线，查看是否恢复正常。

• 监听时有不干净的电流声或异常噪音等

①检查本机附近是否有干扰源；若本机更换使用位置后还是有噪音，请联系客服咨询。
②检查是否音量过高，请调至合适的音量档位。

• 本机蓝牙功能使用异常

①查看本机是否连接到了其他手机/电脑。可长按蓝牙配对键3秒重新进入配对模式，待蓝牙指示灯呈蓝灯快闪时再尝试蓝牙连接。
②将本机关机重启后再次进行蓝牙连接。
③将手机端蓝牙功能关闭后再开启，再尝试蓝牙连接。

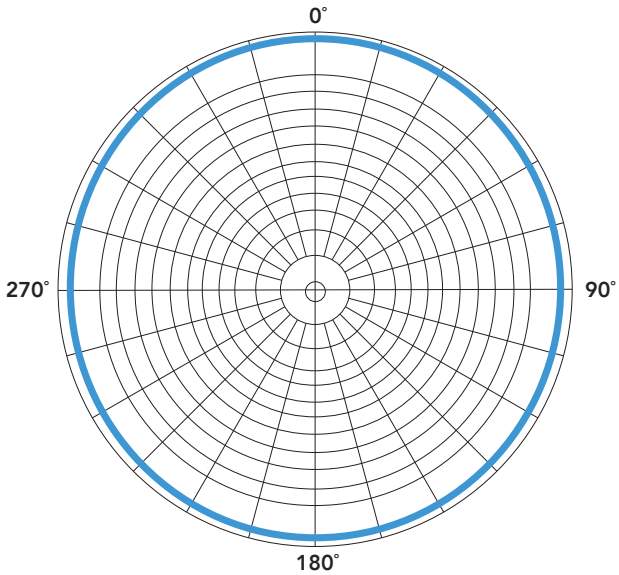
• 本机级联功能异常

①检查本机是否连接正常以及转接线是否有松动。检查级联线是否使用正确。
②将本机和从机两台产品关机重启后再次验证。

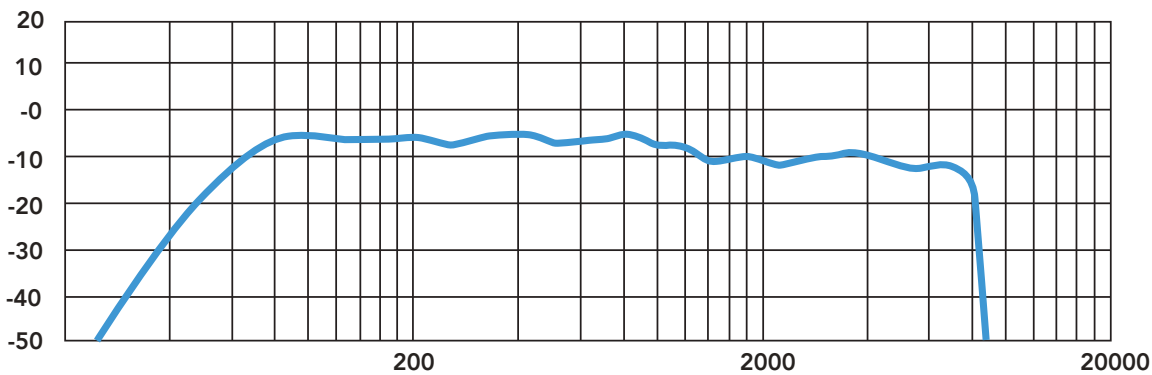
参数

麦克风类型	4阵列麦克风
拾音模式	全向型
拾音范围	360°,3米半径
麦克风频率响应	20Hz-20kHz
扬声器频率响应	20Hz-20kHz
音频处理	回声消除(AEC),声源定位,通话降噪(CVC)
灵敏度	内置麦克风:-31dB±1dB (94 dB SPL @ 1 kHz)
采样率/ 位深度	播放:48kHz/ 16bit; 录音:16kHz/ 16bit
信噪比	＞60dB
最大声压级	内置麦克风:120dB SPL
射频输出功率	6dBm
传输方式	有线连接:USB Type-C端口(USB 2.0); 无线连接:蓝牙/ 2.4GHz(Bluetooth V5.0)
蓝牙版本	V 5.0
蓝牙范围	30米(在无障碍无干扰空旷环境测得)
音频输入	3.5mm TRS音频输入孔(IN);内置四阵列麦克风
音频输出	3.5mm TRS音频输出孔/TRRS级联孔(OUT/LINK); USB Type-C数据接口
支持操作系统	Window11, 10,8.1, 8.7, Vista和XP、Linux、macOS
支持会议软件	Zoom、Skype for Business、Webex、Google Hangouts、 Teams、Face Time、钉钉会议、腾讯会议、企业微信、QQ
电池类型	内置锂电池
电池容量	5200mAH
充电接口	USB Type-C (DC 5V/2A)
续航时间	约16小时
充电时间	约 3小时
尺寸(L×W×H)	114mm×114mm×30.5mm
重量	322.5g
工作温度	0°C~50°C
贮存温度	–20°C~55°C

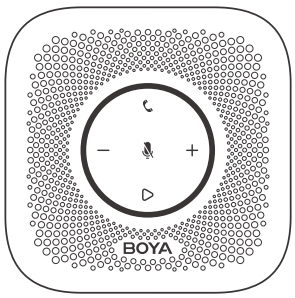
极性图



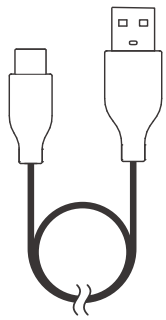
频率响应



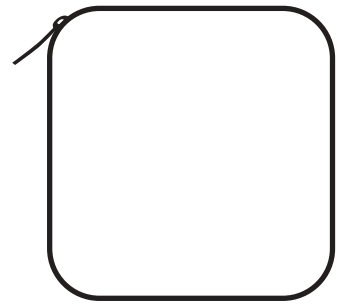
包装清单



Blobby Pro
会议麦克风 ×1

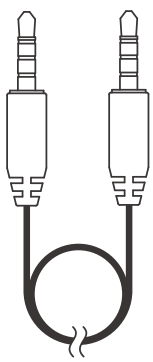


USB-C转USB-A
数据线 ×1



收纳包
×1

其他音频线（单独出售）



3.5mm TRRS转TRRS音频级联线（3米）

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