



深圳市嘉华利电子有限公司

TOPWAY EM ENTERPRISE LTD.

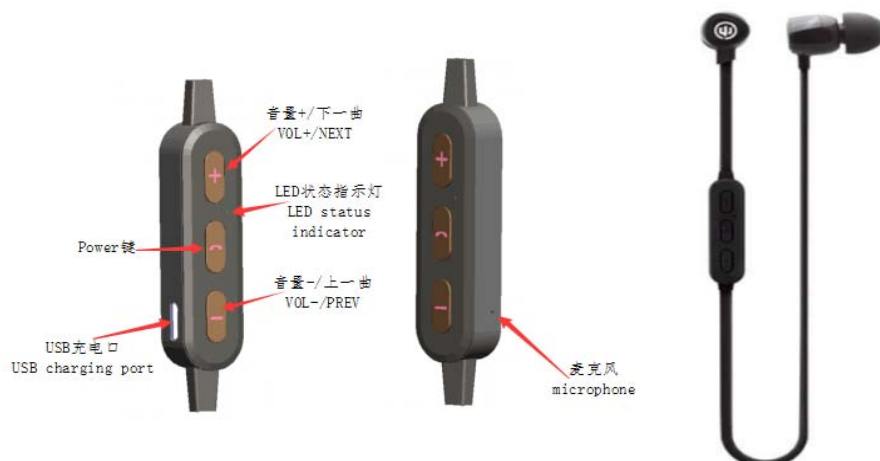
产品规格说明书

Manual

产品名称 **Apellation:** 蓝牙耳机 Bluetooth Earphone

型号 **Model:**17LY72

1. 主控方案 Bluetooth chipset controller :NY005



2. 产品关键参数 Headset

Specifications

规格列项 Items	规格参数说明 Description	备注 Remark
蓝牙版本 Bluetooth version	V4.2	
蓝牙协议 Bluetooth profile	HFP A2DP HSP AVRCP	
蓝牙耳机类型 Product type	立体声蓝牙耳机 Stereo Bluetooth	
工作频率 Working Frequency	2.402GHz-2.480GHz	
产品尺寸 Product dimension	TBA	
产品重量 Product weight	TBA	
额定电池容量 Battery capacity	80mAh / 3.7V	
电池类型 Battery type	可充电锂电池 Rechargeable Lithium	
充电电流 Charging current	≤80mA	
充电时间 Charging time	1.5 hours	
关机后静态电流 Quiescent current	≤4uA	
待机电流 Standby current	≤2mA	
整机工作电流 Operating current	≤28mA	播放音乐或通话状态
音乐播放时间 Playback music time	3--4 hours	测试条件: 用 iPhone 手机, 音量为最大音量的 70% 播放音乐 Test condition: used with iPhone playback music for 70% maximum volume
通话时间 Talk time	3--4 hours	
待机时间 Standby time	Up to 38 hours	
无障碍蓝牙通话距离 Effective communication range	正向 Forward ≥9M, 背向 Backwards ≥7M	
无障碍蓝牙播放音乐距离 Effective	正向 Forward ≥10M, 背向 Backwards ≥	
接收灵敏度 Receiving sensitivity	>-85dBm	
麦克风 Microphone	4015 @ 42+/-3 dB (电容咪头)	
喇叭 Speaker type	Φ10mm (DLBR-10ND06-033)	
阻抗 Impedance	16 Ω ± 15%	
喇叭声压灵敏度 Sound pressure	91 ± 3dB @1mw 1kHz with IEC318	
频响范围 Frequency response	20 - 20,000 Hz	
额定输出功率 Rated input power	3mW	
最大输出功率 Maximum input power	10mW	
声道平衡度 Channel balance	≤ 3dB @ 1kHz	

音频信噪比 S/N ratio	>90dB	
失真度 Distortion	< 5% @ 1kHz 1mW	
工作温度 Operating temperature	-10~+45℃	
储存温度 Storage temperature	-20~+60℃	

3、产品使用功能列表 User Guide

序号 No	实现功能 Function	耳机状态 headset status	操 作 Operation	备注 Remark
1	开机/配对 Powering on/pairing	关机状态下 Under Powering off	长按“Power”键3秒，有“Power on”和“Pairing”语音提示，自动进入配对状态；打开手机蓝牙搜索设备名：17LY72，点按设备名进入连接，配对成功后有“Connected”语音提示，断开蓝牙连接有“Disconnected”提示音。 Long Press "Power" button for 3 seconds, the Earphone into power on, and it will have “Power on” and “Pairing” voice prompt, then it enter pairing mode, Open mobile phone setting, searching Bluetooth device name of 17LY72, click device name and then the Earphone connected, it will have “Connected” voice prompt speak out from speaker. If Bluetooth Earphone was disconnected, it will be sent out “Disconnected” voice prompt from speaker.	配对状态红蓝灯交替闪烁 At pairing mode, the red and blue LED will flash alternately 连接成功后蓝灯闪烁 At connection mode, the blue LED will flash.
2	关机 Powering off	开机状态 Under Powering on	长按 Power 键3秒，有“Power off”语音提示 Long Press "Power" button for 3 seconds and have "Power off" prompt voice.	
3	末码重拨 Last number redial	待机状态 Standby mode	双击"Power"键一下，有“redialed”语音提示 Double click “Power” button and have "redialed" voice prompt.	
4	接听电话 Answer call	来电中 Incoming call	短按 Power 键一下 Click "Power" button once	来电有“incoming call”语音提示 Incoming call voice prompt
5	挂断电话 End call	通话中 On calling	短按 Power 键一下 Click "Power" button once	
6	拒接电话 Reject call	来电中 Incoming call	长按 Power 键约2秒，有“call rejected”语音提示 Long press "Power" button for 2 seconds and have "call rejected" voice prompt.	来电有“incoming call”语音提示 Incoming call voice prompt
7	低电提醒 Low battery alert	开机状态 Under Powering on	当电池电压低到3.3V时，有“battery low”提示音 When battery voltage less than 3.3V, the Earphone will be warning and have “battery low” voice prompt speak out from speaker.	
8	自动关机 Automatic powering off	开机状态 Under Powering on	耳机无连接或断开蓝牙连接5分钟耳机将自动关机 Once Earphone no connection or disconnected over 5 minutes, Earphone will shut down automatically 耳机电池电压低到3.0V时耳机将自动关机 Battery voltage less than 3.0V, the Earphone will power-off automatically.	
9	充电 Charging	关机状态下 Under powering off	将 Micro USB 充电线插入充电口即可实现充电 Micro USB cable Plug into charging port.	红灯常亮 Red LED is lit
10	充电 Charging	任何开机状态 Under any powering on status	将 Micro USB 充电线插入充电口即可实现充电，耳机不会关机或断开连接。 Micro USB cable Plug into charging port, The Earphone does not shut down or disconnect.	红灯常亮 Red LED is lit
11	充电饱和 Fully charged	充电状态下 Under Charging	电池充电 Fully charged	红灯熄灭 Red LED lights off

12	音量+ VOL+	通话中/播放 音乐中 Under calling / music mode	短按音量+键 Click the volume + button	音量加到最大时有“maximum volume”语音提示 Volume will go to maximum Have is a “maximum volume” voice prompt
13	音量- VOL-	通话中/播放 音乐中 Under calling / music mode	短按音量-键 Click the volume - button	音量减到最小时有“minimum volume”语音提示 Volume will go to minimum Have is a “minimum volume” voiceprompt
14	播放/暂停 Play/Pause	待机播放 Under Standby mode	单击“power”键 Click “power ” button	耳机使用正常状态 Earphone in normal operation status
15	上一曲 Previous track	音乐中 Under music mode	长按音量-键 Long press the volume - button	
16	下一曲 Next track	音乐中 Under music mode	长按音量+键 Long press the volume + button	
17	开机自动回连功能 Auto reconnected when power on	关机状态下 Under powering off	在接受范围内, 开机时会听到有“power on” “Pairing” 和 “Connected” 语音提示, 耳机会回连到已连接的手机 Within effective communication range, when the Earphone POWER ON , it will reconnected automatically, and have “Power on” “Pairing” and “Connected” prompt voice, it will reconnect the last connected smartphone.	

4. 故障排除说明和常见现象 Trouble Shooting and Common Situations

序号 No	常见现象 Common Situations	故障排除说明 Trouble Shooting
1	耳机不开机 Earphone can not power on	耳机电量可能耗尽, 请充电 30 分钟后再开机 Battery drain, please charge the device for 30 minutes, and then powering on.
2	手机无法搜索到蓝牙耳机 Mobile phone can not search Bluetooth Earphone	1. 确认耳机处于开机配对状态 (指示灯红蓝交替闪烁) 2. 删除手机中存在的蓝牙名称, 再次搜索 3. 如果仍无法搜索到, 请重启耳机和手机再次尝试 1. Confirmed Earphone in pairing mode. 2. Delete pairing list in smartphone and searching Earphone again. 3. If it still can not be found, please restart smartphone and Earphone again.
3	手机与耳机成功连接后断开 Earphone will be disconnected from time to time	1. 耳机电量差不多耗尽 2. 耳机与手机超出有效连接距离 (10 米) 1. The battery drain. 2. The Earphone is beyond the communication range(10M)
4	接通电话无声 No sound on talk mode	1. 确认通话时连接的音频设备为蓝牙耳机, 而不是手机或扬声器; 2. 增大耳机或手机音量 3. 手机模式不是蓝牙模式 4. 手机音频未打开 1. Confirmed the Earphone connected and with earpiece mode on talking. 2. Try to increase Earphones or smartphone volume. 3. Smartphone is not via Bluetooth mode. 4. Do not open Smartphone voice.
5	音乐播放无声音 No sound with music playback	1. 增大耳机或手机音量 2. 耳机与手机连接出现问题, 重新连接 1. Try to increase Earphones or smartphone volume. 2. Earphone is disconnected with smartphone, Reconnected again.

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耳机无法充电
Can not charger for
Earphones

- 1. 充电线两端未连接好
- 2. 充电线故障
- 1.The charger cable connected was not well.
- 2.Charging line was damaged.

5. Frequency response curve



左通道 Left Channel

阻抗 Impedance

右通道 Right Channel

灵敏度框 Sensitivity

频率 Frequency

名称 Name

平衡度 Channel Balance

极性 Polarity

通道合格 Channel Qualified

判定 Judging

FCC Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following

two conditions: (1) This device may not cause harmful interference, and (2) this device

must accept any interference received, including interference that may cause undesired

operation.

This equipment has been tested and found to comply with the limits for a Class B digital

device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the

user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the party responsible

for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.