BOYA

Handheld Stereo Audio Recorder

立体声手持录音笔

BY-R1

User Manual
用户手册

General Introduction

The BY-R1 is a easy-to-use handheld audio recorder with a intuitive LCD display. It's ideal for using in applications such as conference, documentary shooting, ENG, filmmaking, field recording, music production, podcasting, etc.

Equipped with a XY stereo microphone, the recoder can also connect other audio devices via the MIC IN and LINE IN to capture rich and natural sounds.

Beyond that, the BY-R1 features capabilities of limiting and low cut (80Hz/ 120Hz/ 160Hz), which provides more safe conditions for your recording.

Features

- Records up to 96kHz/24bit audio files
- Up to 2-channel simultaneous recording
- Key locking function to prevent inadvertent operation
- Adjusting monitoring volume and input gain level
- High-resolution LCD display - see vital information at a glance

In the Box
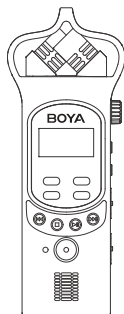
BY-R1
handy recorder
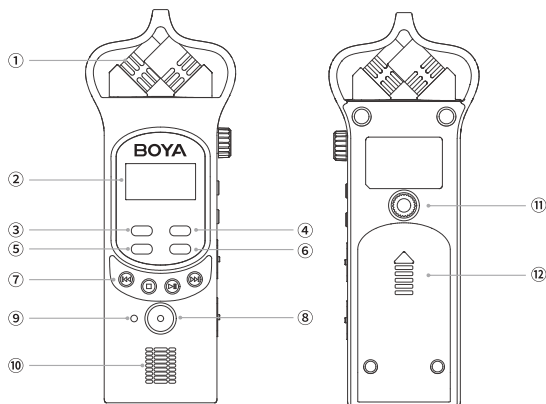

Foam windscreen

microSD card (8GB)

Carrying pouch

USB-C cable

Product Structure

① **XY stereo microphone**
   The XY configuration angled 90° to produce realistic stereo image.

② **LCD screen**
   Displays information. Please refer to "Display Overview" and "Menu Introduction" for more details.

③ **MENU button**
   Press to return to the main menu.

④ **LOW CUT button**
   Press to enable the low cut (80Hz/120Hz/160Hz) or disable it (OFF).

⑤ **LIMITER button**
   Press to enable or disable the function of limiting.

⑥ **AUTO LEVEL button**
   Press to enable or disable the function of auto level.

⑦ **Control panel**

Go through menu and select functions or values shown on the display. Please refer to "Control Panel" for more details.

⑧ **REC button**
   On recording screen: Press to start recording or stop recording & save the file.
   On other screen: Press to enter the recording screen.

⑨ **Recording indicator**
   Static red: Recording
   Blinking red: Signal overload (Peak detection)
   Light off: Recording pause or stop
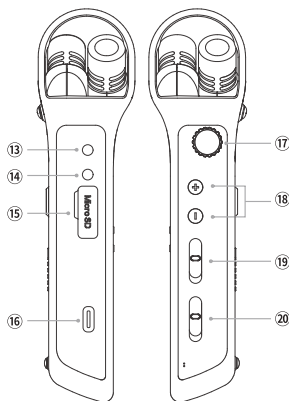
⑩ **Built-in speaker**
   Use to check the playback audio when not using the line or headphones output jack.

⑪ **1/4"-20 female screw**

For connecting to a mic stand, tripod, or shoulder rig.

⑫ **Battery compartment cover**
Please refer to "Installing Two AA Batteries."

⑬ **LINE/ MIC IN jack**
A 3.5mm line input (stereo microphone input) jack. Connect external audio sources or stereo microphone to record.

⑭ **LINE OUT/ Headphone jack**
A 3.5mm stereo output (headphone jack). Output audio to devices like camcorder, etc. Or connect headphones to monitor the audio output.

⑮ **microSD card slot**
Please refer to "Inserting a microSD card".

⑯ **USB-C port**
For connecting to a power supply to power the unit; For exchanging files with devices such as computer; For using as a sound card.

⑰ **Input gain control knob**
Rotate the knob to adjust the input audio gain to optimum level among 00~50.

⑱ **Headphone volume control**
Press "+" or "-" to adjust the headphone monitoring volume to optimum level among 00~30.

⑲ **KEY LOCK switch**
Slide up to lock other buttons. Slide down to unlock.

⑳ **POWER switch**
Slide down and hold for 3 seconds to switch the unit on or off.

Display Overview

Recording Screen

① **Recording status**
● Recording ❚ Pause ▣ Standby
② **Audio level meter**
③ **Current filename**
④ **Remaining available time (or Current elapsed time)**
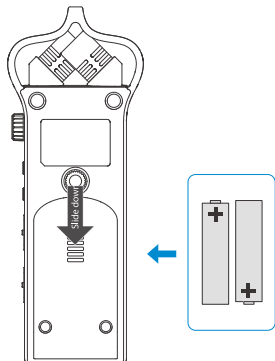⑤ **Battery remaining capacity**

Playback Screen

① Playback status
  ▶ Playback   ■ Pause
  ◄◄ Rewind   ►►I Fast-forward
② Progress bar of current playback
③ Current file number/ total files
④ Audio level meter
⑤ Current filename
⑥ Elapsed playing time
⑦ Total time
⑧ Battery remaining capacity

Operation Guide

Installing Two AA Batteries

1. Slide out the battery cover at the back of the unit.
2. Install the batteries (AA Alkaline or NiMH) with the "+" positive terminal lined up with the sign "+" on the battery compartment.
3. Replace the battery cover.

HINT:
① Turn the power off before installing or removing the battery.
② The recording file will be saved automatically if the batteries run out.
③ If the battery indicator becomes empty, turn the power off immediately and install new batteries.
④ Set the type of battery being used.

Inserting a microSD card

Open the card slot cover, insert a microSD card into the card slot with the contacts facing up.

＊If you want to remove the microSD card, push it further into the slot and then pull it out.
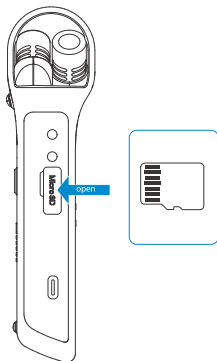
HINT:

① DO NOT insert and remove a microSD card while the power is ON, otherwise the data might get lost and the file might get damaged.

② Make sure the microSD card is inserted correctly before using the unit.

③ When the SD card is not loaded, the recording is not available.

Connecting External Mics

In addition to record with the XY microphone, you could also connect an external 3.5mm microphone or a line-level device to the LINE /MIC IN jack.

Please note that only one input signal could be recorded at one time, the sequence priority is LINE /MIC input, and XY microphone.

Power ON/ OFF

• Slide the POWER switch 🛘 down and hold for 3 seconds to turn the unit on or off.

HINT:

• The first time you turn the power on after purchase, please set the Language and Date & Time.

• If "SD Fmt Err" pops up on the display, please confirm whether the SD card is inserted properly or its format is correct. If not correct, please format the card or use another card.

Warning:
Please back up the data in the microSD card before formatting.

USB Function

① AUDIO: Turn on the BY-R1 recorder and connect it to a computer using a USB cable. Select "AUDIO" to send BY-R1's output signals to the computer.

```
AUDIO
 ⤴      ◀◊      ▣
```

② STORAGE: Turn on the BY-R1 recorder and connect it to a computer using a USB cable. Select "STORAGE" to check and copy data on the SD card, and exchange data with the computer.

```
STORAGE
 ⤴      ◀◊      ▣
```

Follow the procedures for your computer when you want to disconnect.

• Windows: Use "Safely Remove Hardware" to select the BY-R1.

• Mac: Drag-and-drop the BY-R1 icon into the trash.

Key Locking

Activating: Slide the KEY LOCK switch 🛘 up to lock other buttons, preventing inadvertent operation. ⇌ appears on the display.

Deactivating: To enable the use of the other buttons again, slide the KEY LOCK switch 🛘 down.

HINT: Activating key locking won't affect the process of recording.

Recording

- On recording screen (standby): Press the REC button ⊙ to start recording.
- On other screen: Press the REC button ⊙ to enter the recording screen.→Press the REC button ⊙ again to start recording.
- When recording, press ▶❚ to pause or resume recording; press and hold the REC button ⊙ to end the recording and save the file.
- In the state of "Auto Level Off", rotate the knob on the right side of the unit to adjust the input gain.

Playback & Monitoring

- When on the recording screen (standby), press ▶❚ to directly enter the playback screen and the latest recorded file will be played.
- Or press the MENU button to enter "Menu" → select "1 FILE" → select the folder "RECORD" → select an audio file "REC-****.WAV" → press ▶❚ to play it.
- When on the playback screen, ◄◄ / ►►❙ press to play the previous or the next audio file; Press and hold ◄◄ / ►►❙ to rewind or fast-forward the current audio. Press ■ to return to the "RECORD" file.
- Connect your headphones or earphones to the unit's headphone jack to monitor the audio output on the recording screen and playback screen.
- Press "+" or " - " button to adjust the monitoring volume.

Deleting Audio Files

After selecting the file you do not need, press ▶❚ and then "Delete File?" pops up on the display. Press ◄◄ / ►►❙ to select "YES" or "NO". Press and hold ▶❚ to confirm the option. Press ■ to cancel the option and exit the pop.

HINT:

① If a file was deleted, the name of the remaining files would not be changed.
② Deleting files or folders cannot be undone. Please operate it with caution.

Menu Introduction

Main Menu	Sub Menu		Description
FILE	RECORD	REC-0001. WAV~REC-****.WAV	The BY-R1 has only one folder. Files are named with consecutive numbers, such as REC-0001.WAV.
INPUT	Low Cut Set	Low Cut 80Hz	Sounds that are 80Hz or lower will be filtered.
		Low Cut 120Hz	Sounds that are 120Hz or lower will be filtered.
		Low Cut 160Hz	Sounds that are 160Hz or lower will be filtered.
		*Low Cut Off	Default setting.
	Limiter Set	*Limiter Off	Default setting.
		Limiter On	The mic will lower the output level when loud sound sources threaten to distort your recording.
	Auto Level	*AutoLevel Off	Default setting.
		AutoLevel On	This function automatically adjusts the input level according to the input signal. At this time, pressing the input gain control has no effect.
REC SET	File Limit	5 minutes	Set maximum elapsed time limit. The default setting is 60 minutes. If the elapsed time exceeds the file limit, the current file will be automatically saved, then there will be a new file to save your recording. For Example: If you set the file limit of up to 60 minutes, a 120-minute recording will be divided into 2 separate .wav files.
		10 minutes	
		30 minutes	
		*60 minutes	
		90 minutes	
		120 minutes	
	Sample Rate	44.1kHz/16bit	File size: 24bit > 16bit Audio quality level: 96kHz > 48kHz > 44.1kHz Consider audio quality and file size when selecting the format. The default setting is 48kHz/24bit.
		44.1kHz/24bit	
		48kHz/16bit	
		*48kHz/24bit	
		96kHz/16bit	
		96kHz/24bit	
	Line-IN/ Mic-IN	*Mic-In	The default setting is "Mic-In".
		Line-In	
	LineOut/HP	*HP	The default setting is "HP".
		LineOut	
	MIC-BIAS SET	*MIC-BIAS ON	The default setting is "MIC-BIAS ON".
		MIC-BIAS OFF	
SD CARD	Total: ****M		Total memory storage of current SD card.
	Remain: ****M		Remain memory storage of current SD card.
	Format SD	Yes/*No	After selecting YES, all data previously stored on the SD card will be erased (Please use it with caution).

PLAY MODE	*Play 1 File		The selected file will be played one time (Default setting).
	Repeat 1 File		The selected file will be played repeatedly.
	Play Folder		The files in the present folder will be played in order.
	Repeat Folder		All files in the present folder will be played repeatedly.
SYSTEM SET	Date & Time		• Set the date and time so that all files will include a time-stamp when exported. • On Date & Time setting screen, press ▶ll to move the cursor and then press ◄◄ /▶▶ to adjust the value. Finally press ■ or to confirm and exit. (Or press the MENU button to confirm and return to the main menu page.)
	LCD Backlight	*Always On	The backlight always stays on. (Default setting).
		Always Off	The backlight always stays off.
		5 seconds	The backlight will turn off if no operation occurs for 5 seconds.
		10 seconds	The backlight will turn off if no operation occurs for 10 seconds.
		15 seconds	The backlight will turn off if no operation occurs for 15 seconds.
		30 seconds	The backlight will turn off if no operation occurs for 30 seconds.
	LCD Contrast	1-2-3-4-5	On LCD Contrast setting screen, press ◄◄ /▶▶ to adjust the level and then press ■ or to confirm and exit. (Or press the MENU button to confirm and return to the main menu page.). The default level is "4".
	Battery Type	Ni-MH	Set the type of battery used so that the amount of remaining battery charge can be shown accurately. The default setting is Alkaline.
		*Alkaline	
	Language Set	*English	The default setting is English.
		中文	
	Factory Reset	No	After selecting YES, BY-R1's relevant parameters will be restored to the default factory values (Please use it with caution).
		Yes	
	Version	MCU: **** DSP: ****	

Control Panel

Control Button	On Recording Screen			On Playback Screen	On Main Menu	On Submenu	On Popup Menu
	Standby	Recording	Pause				
⏮	–	–	–	Press: Playback last audio file Press and hold: Rewind the current audio.	Scroll up	• Scroll up • Scroll left • Adjust parameters only on Date & Time page	Scroll left
⏭	–	–	–	Press: Playback next audio file Press and hold: Fast-forward the current audio.	Scroll down	• Scroll down • Scroll right • Adjust parameters only on Date & Time page	Scroll right
▶❙❙	Play the last file directly	Pause or Resume recording		Pause or Resume playback	Enter submenu	• Enter smaller submenu • Playback the certain file selected • When a certain file is selected, press and hold the button and then "Delete File?" will pop up.	Confirm setting
■	–	Save the file and return to the MENU page		–	Back to the recording screen	Back to the previous page	Exit the popup menu
⦿	Start recording	Stop recording and save the file		Enter the recording screen			
MENU	Enter to the MENU page	–	Save the current file and return to the MENU page	–	–	Back to the MENU page	
LOW CUT	Press to enable the low cut (80Hz/120Hz/160Hz) or disable it (OFF).			–	–	–	–
LIMITER	Press to enable or disable the function of limiting			–	–	–	–
AUTO LEVEL	Press to enable or disable the function of auto level.			–	–	–	–

Troubleshooting

If you encounter problems when using the BY-R1, 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.

Problem	Solution
There is no sound/ The sound is too weak	1) Check whether the audio monitoring output is fully plugged in. 2) Check the volume setting of BY-R1. 3) Check whether the volume of monitoring device is not too low. 4) Check whether the Low Cut is turned on.
The recorded sound cannot be heard or is too low	1) If you are using the XY mic, confirm whether it is oriented correctly. 2) Check the input level or monitoring volume settings. 3) If a phone's player or other device is connected to the LINE IN jack, please raise the output level of the device. 4) Check whether the Low Cut is turned on.
Recording is not possible	1) Confirm whether the SD card has space left. 2) If "HOLD" appears on the display, it means the key locking has been enabled. Disable the key locking to record normally. 3) Check whether the SD card can be used normally. If "No SD Card" or "SD Fmt Err" pops up on the display, please format the SD card or replace it with a new one.
The recorder cannot be powered via USB-C cable	1) Check whether the USB-C cable is fully plugged in. 2) Pull the USB-C cable and plug it in again.

Cautions

1. Place product in the shade & dry place and avoid exposure to rain when in use.
2. Please use and store it in normal temperature. Do not move it from overheated to super-cooled condition frequently as well as keep away from heat sources such as heater and oven.
3. When using and storing, please pay attention to dust and moisture.
4. Be careful to violent collision.
5. To avoid acoustical feedback, do not hold the microphone close to the loudspeakers.
6. For the best sound pick-up pattern, do not hold your hand against the microphone capsule cover.
7. Remove the batteries from the battery compartment when the device is not used for a long time.

Specifications

Recording Channel	2
Recording Format	.WAV (44.1kHz/16bit, 44.1kHz/24bit, 48kHz/16bit, 48kHz/24bit, 96kHz/16bit, 96kHz/24bit)
Playback Format	.WAV (44.1kHz/16bit, 44.1kHz/24bit, 48kHz/16bit, 48kHz/24bit, 96kHz/16bit, 96kHz/24bit)
A/D Conversion	24-bit, 128x oversampling
D/A Conversion	24-bit, 128x oversampling
Signal Processing	32-bit
LCD	LCD 128×64 (with light)

Inputs	• Built-in 90° XY stereo mic
	  Maximum input sound pressure: 110dB SPL
	  Sensitive: -35dB
	  Unidirectional cardioid
	• LINE IN: 3.5mm TRS line level/ microphone input
	  Gain: 0~30dB

Outputs	• 3.5mm stereo headphone jack:
	  MIC IN to Headphone/ LINE OUT: Maximum Gain 48dB
	  LINE IN to Headphone/ LINE OUT: Maximum Gain 36dB
	  Signal-to-Noise Ratio: > 80dB (@60% volume, -30dBu input)
	  THD+N Distortion: < 0.01% (@60% volume, -30dBu input)
	  Frequency Response: 20Hz-20kHz (@LINE IN input)
	  Headphone Output Power:20mW + 20mW into 32Ω load

Built-in Speaker	0.5W/ 8Ω
USB Jack	Type-C
Power Required	2 AA batteries (Ni-MH or Alkaline) USB-C DC 5V/1A
Recording Hours	4 hours under 96kHz/24bit (wav) (8GB SD card) 13.5 hours under 44.1kHz/16bit (wav) (8GB SD card)
Weight	155g (5.47oz)
Dimension	157mm×45mm×25.8mm
SD Card Capacity	Support up to 128GB

Check Your BOYA Warranty Status

1. Your BOYA-branded hardware product is warranted against defects in materials and workmanship for a period of ONE (2) YEAR from the date of original retail purchase ("Warranty Period"). This warranty excludes damage resulting from abuse, accident, modifications or other causes that are not defects in materials and workmanship.

2. The Warranty Start Date shall be the date you purchase the Product with a valid invoice.

3. If the Customer is unable to provide an invoice of the original purchase, the Warranty Start Date shall be ninety (90) days after the Production Date displayed on the unit or its serial number (SN).

Go to https://www.boya-mic.com/service-policy. Enter a serial number (SN) to retrieve the warranty status for your Product. The result is for reference only, not as judgment criteria for warranty.

Warranty Information

For information about warranty, return, and replacement policies or service for repair, please visit https://www.boya-mic.com/service-policy.You acknowledge that the warranty for your device is only valid in the country/region where it was purchased.

BOYA Support
Get more product supports.
https://www.boya-mic.com/service-policy

概述

BY–R1是一款带LCD屏幕的手持录音机，直观易懂，操作简单。适用于会议、纪录片拍摄、ENG、电影制作、现场录音、音乐制作、播客等场景。

自带XY立体声麦克风，也可以通过麦克风输入接口和线路输入接口外接其他音频设备，捕捉干净丰富的自然声音。此外，BY–R1还带有限幅功能和低切功能（80Hz/120Hz/160Hz），提供更加有保障的录音环境。

特点

- 最高支持96kHz/24bit录制格式
- 支持双轨同时录音
- 具有按键锁定功能，防止误操作
- 可调节监听音量和输入增益
- 高分辨率LCD屏幕，重要信息一目了然

包装清单

防风海绵

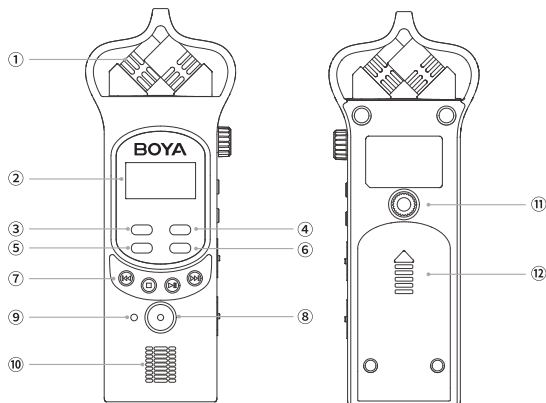microSD储存卡
（8GB）

BY-R1手持录音机

收纳袋

Type-C数据线

产品结构

① XY立体声麦克风
  XY麦克风配置的角度为90°，可以生成生动逼真的立体声象。

② LCD显示屏
  显示信息，详见"界面预览"和"菜单介绍"。

③ 菜单键
  短按此键返回至主菜单界面。

④ 低切键
  短按此键在开启低切(80Hz/120Hz/160Hz)或关闭低切(OFF)。

⑤ 限幅键
  短按此键开启/关闭限幅功能。

⑥ 自动增益键
  短按此键开启/关闭自动增益功能。

⑦ 操控面板

浏览菜单并调整各参数值或功能。详见"操控面板"。

⑧ 录制键
  在录音界面：短按此键开始录音或停止录音并保存文件；
  在其他界面：短按此键进入录音界面。

⑨ 录音指示灯
  红灯常亮：录音中
  红灯闪烁：信号过载（破音检测）
  红灯熄灭：录音暂停/停止

⑩ 内置扬声器
  在不使用线性/耳机输出时用于检查回放音频。

⑪ 1/4"–20螺纹孔
  此接口可将本机固定安装到麦克风支架、三脚架或肩托架上。

⑫ **电池仓盖**

详见"装入两节AA电池"。

⑬ ○
⑭ ○
⑮ Micro SD
⑯
⑰
⑱ ⊕ ⊖
⑲
⑳

⑬ **线路输入孔(麦克风输入孔)**

3.5mm线路/立体声麦克风输入接口，用于外接音频/立体声麦克风。

⑭ **线路输出孔(耳机监听孔)**

3.5mm立体声输出接口/耳机接口。可将音频输出到摄像机等设备，也可连接耳机以监听输出的音频。

⑮ **microSD卡槽**

详见"装入SD卡"。

⑯ **USB Type-C接口**

用于连接电源为本机供电；用于连接电脑等设备进行数据交换；或当作读卡器使用。

⑰ **输入增益调节旋钮**

转动旋钮调节输入音频增益(调节范围：00~50)。

⑱ **耳机音量调节键**

短按"+"/"–"键调节耳机监听音量(调节范围：00~30)。

⑲ **按键锁定开关**

向上拨锁定按键操作，向下拨解除锁定。

⑳ **电源开关**

向下拨3秒以开/关机。

界面预览

录音界面

① 录制状态图标

　● 录音 ▮▮ 暂停 ◉ 待机

② 电平表

③ 当前录音文件名

④ 剩余录制时长（或已录制时长）

⑤ 电池剩余电量

播放界面

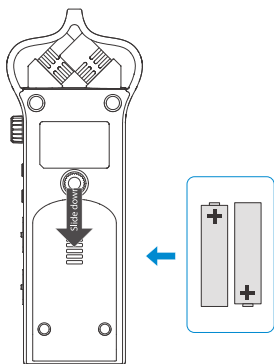
① 播放状态图标

　▶ 播放 ▮ 暂停 ◄◄ 快退 ►► 快进

15

② 当前播放进度条
③ 当前播放文件序号/总文件数
④ 电平表
⑤ 当前播放文件名
⑥ 已播放时长
⑦ 文件总时长
⑧ 电池剩余电量

操作指南

装入两节AA电池

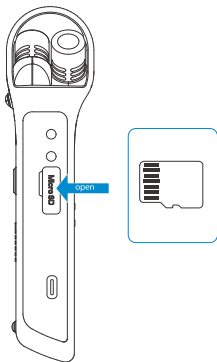向下滑以取下设备背面的电池仓盖；然后按照电池仓里的正负极指示方向，分别装入两节AA型号的碱性电池或镍氢电池；最后盖上电池盖。

提示：
① 移除或安装电池时，需先关闭本机电源。

② 当设备自动关机时，录音文件将自动保存。
③ 当电池指示灯符号变为空格时，请及时关闭电源，更换新电池。
④ 安装电池后，请准确设定所使用电池类型。

装入SD卡

拉开设备侧面卡槽盖，将SD卡触点朝上插入卡槽即可。若想要取出SD卡，将其往里按压一下，便可取出。

提示：
① 请勿在开机状态下插入或拔出SD卡，以防文件损坏和数据丢失。
② 当使用本机时，请确保已经正确安装SD卡。
③ 当SD卡没有被读取时，录音功能是不能操作的。

使用外置麦克风

除了可以使用XY麦克风进行录音，也可以外接3.5mm麦克风或线性输入设备到线性/麦克风输入孔。请注意，一次只能记录一个输入信号，顺序优先级为线性输入/麦克风输入、XY麦克风。

开启/关闭电源

将电源开关 ⟦ 向下滑动3秒钟以开启或关闭电源。

提示：
- 请在首次开启本机时设定好语言、日期和时间；
- 若屏幕出现"SD格式错误"提示，请确认SD卡是否装好或其格式是否正确。如果该SD卡格式不适合本机，请格式化此卡或使用另外不同的卡。

警告：
格式化前，请备份SD卡中的数据，格式化后，SD卡中的的数据将不可恢复。

USB功能选择

① 声卡：将录音笔开机，用USB线连接 BY–R1至电脑上，选择"声卡"，以输出BY–R1的声音到电脑上。

声卡

② 储存：将录音笔开机，用USB线连接 BY–R1至电脑上，选择"储存"，以检查和复制SD卡里的内容，与电脑进行数据交换。

储存

当你打算断开USB连接时，请按照以下步骤进行：
- Windows：使用"安全移除硬件"选择 BY–R1
- Mac：把BY–R1的图标拉到回收站

按键锁定功能

- 将按键锁定开关 ⟦ 向上滑动至ON可锁定其他按键，防止误操作，界面将显示 ⟦。
- 将按键锁定开关 ⟦ 向下滑动至OFF可取消锁定，恢复其他按键操作。

提示：若产品正在录音，开启按键锁定功能将不会影响正常录音。

录制音频

- 在录音待机界面，按录制键 ⊙ 即可开始录音；
- 在其他界面时，按录制键 ⊙ 可返回到录音待机界面→再次按录制键 ⊙ 即可开始录音；
- 录音过程中，按 ▶Ⅱ 可以暂停/恢复录制，按录制键 ⊙ 可以结束录音并保存录音文件；
- 在"自动增益关闭"的状态下，转动本机右侧的旋钮可以调节输入增益。

播放和监听音频

- 在录音待机界面，按 ▶Ⅱ 可直接进入播放界面，播放最新录制的文件。

- 或按菜单键进入"菜单"→选择"文件"
  →选择文件夹"RECORD"→选择想要
  播放的音频文件"REC－****.
  WAV"→按 ▶❙ 即可播放。
- 在播放界面，短按 ❙◀◀ / ▶▶❙ 切换播放上
  一曲/下一曲；长按 ❙◀◀ / ▶▶❙ 可以快退
  /快进播放当前音频，短按 ■ 返回
  "RECORD"文件夹。
- 将耳机接入至本机的耳机监听孔，可
  在录音界面和播放界面监听输出的音
  频。
- 短按本机"+"/"－"键可以调节耳机监
  听音量。

删除文件

若需要删除单个文件，在光标停留在选
定文件后，长按 ▶❙ 将出现"删除文件？"
弹框提示。按 ❙◀◀ / ▶▶❙ 移动光标选择"是"
或"否"，长按 ▶❙ 确认选项，短按 ■ 取
消选择，退出弹框。

提示：
① 当某一个文件被删除时，其余文件的
  名称不会有所改变。
② 音频文件一旦被删除，就无法恢复，
  请谨慎使用此功能。

菜单介绍

主菜单	子菜单		说明
文件	RECORD	REC–0001.WAV~REC–****.WAV	有且只有1个文件夹。录音文件以连续编号命名，如REC–0001.WAV。
输入设置	低切设置	低切80Hz以下	麦克风将自动过滤低频(80Hz以下)声音
		低切120Hz以下	麦克风将自动过滤低频(120Hz以下)声音
		低切160Hz以下	麦克风将自动过滤低频(160Hz以下)声音
		*低切关闭	默认设置
	限幅设置	*限幅关闭	默认设置
		限幅打开	该功能开启后，若有高音量的声音输入，麦克风将降低输入增益，确保音频不会失真。
	自动增益	*自动增益关闭	默认设置
		自动增益打开	该功能开启后本机将根据输入信号自动调节输入增益，且输入增益调节键将处于关闭状态。
录音设置	文件时长设置	5分钟	设置最长录制时间，默认设置为"60分钟"。当设定好录音文件长度之后，如果录音时长超出文件设定时长，当前录音文件会自动保存，并重新开启一个新文件继续录制。例如：您将文件限制设置为60分钟，则120分钟的录音将被分成2个单独的.wav文件。
		10分钟	
		30分钟	
		*60分钟	
		90分钟	
		120分钟	
	采样率设置	44.1kHz/16bit	文件大小：24bit＞16bit 音质高低：96kHz＞48kHz＞44.1kHz 根据所需音质和文件大小选择采样率。默认设置为"48kHz/24bit"。
		44.1kHz/24bit	
		48kHz/16bit	
		*48kHz/24bit	
		96kHz/16bit	
		96kHz/24bit	
	录音输入设置	*麦克风输入	默认设置为"麦克风输入"。
		线路输入	
	录音输出设置	*耳机	默认设置为"耳机"。
		线路输出	
	MIC偏置设置	*MIC偏置电压开	默认设置为"MIC偏置电压开"。
		MIC偏置电压关	
存储设置	总量：****M		当前SD卡总内存
	剩余：****M		当前SD卡剩余内存
	格式化SD卡	是/*否	将SD卡格式化后，SD之前存储的所有数据都会被删除。（请谨慎使用此功能）

	*单曲播放		选定的文件仅播放一次(默认设置)
播放设置	单曲循环		仅一个选定的文件重复播放
	文件夹播放		按顺序播放当前文件夹的文件
	文件夹循环		当前文件夹的所有文件依次重复播放
系统设置	日期和时间		设置日期和时间可以让所有文件在导出时都包含时间戳。在日期和时间设置界面中，按▶Ⅱ移动光标→按◄◄/▶▶Ⅰ调整数值→按■保存设置并退出当前页（或按菜单键保存设置并退回至主菜单）。
	LCD背光时间	*常亮	屏幕背光总是亮起（默认设置）
		熄灭	屏幕背光总是熄灭
		5秒	屏幕背光将在未进行操作5秒后熄灭
		10秒	屏幕背光将在未进行操作10秒后熄灭
		15秒	屏幕背光将在未进行操作15秒后熄灭
		30秒	屏幕背光将在未进行操作30秒后熄灭
	LCD对比度	1-2-3-4-5	在屏幕对比度设置界面中，按◄◄/▶▶Ⅰ可调节对比度等级→按■ 保存设置并退出当前页（或按菜单键保存设置并退出至主菜单）。默认屏幕对比度为等级"4"。
	电池类型	镍氢电池	准确设定所使用的电池类型，以便精确显示电量。默认设置为"碱性电池"。
		*碱性电池	
	语言设置	*English	默认设置为"English"。
		中文	
	恢复出厂设置	*否	恢复出厂设置后，本机的相关参数将被恢复到默认出厂值。(请谨慎使用此功能)
		是	
	软件版本	MCU: **** DSP: ****	

操控面板

操控面板	录音界面			播放界面	主菜单	子菜单	弹出式菜单
	待机状态	录音开始	录音暂停				
◀◀	-	-	-	短按：切换上一个音频 长按：快退播放	向上滚动	• 向上滚动 • 向左选择 • 仅在日期和时间界面可调整数值	向左选择
▶▶	-	-	-	短按：切换下一个音频 长按：快进播放	向下滚动	• 向下滚动 • 向右选择 • 仅在日期和时间界面可调整数值	向右选择
▶Ⅱ	直接播放最新的录音文件	暂停/恢复录制	暂停/恢复播放		进入子菜单	• 进入下级子菜单 • 播放某个选定的文件 • 选定某文件时，长按此键跳出"删除文件？"的弹框	确认设置
■	-	保存当前录音文件，并退回至主菜单界面		-	退回至录音界面	返回至上级菜单	退出弹框
⦿	立即开始录音	停止录音并保存文件		进入录音界面			
MENU	进入主菜单界面	-	保存当前录音文件，并退回至主菜单界面	-	-	返回至主菜单	
LOW CUT	短按开启低切80/120/160Hz或关闭此功能			-	-	-	-
LIMITER	短按开启/关闭限幅功能			-	-	-	-
AUTO LEVEL	短按开启/关闭自动增益功能			-	-	-	-

发现故障及维修

在使用本机的过程中出现任何问题，请参照下列条款加以解决。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。

问题	解决方案
没有声音/输出音量很小	1）检查连接到监听系统的连接是否牢固 2）检查本机的音量设定 3）检查监听设备的音量设定 4）检查是否打开了低切功能
所录的音量太小或者监听不到	1）如果你使用的是XY麦克风，确定接收方向为指向音源 2）检查输入增益或监听音量的大小 3）如果是手机播放器或其他连接到输入接口的硬件，确认该硬件的输出音量 4）检查是否打开了低切功能
不能录音	1）确认SD卡是否还有剩余空间 2）如果屏幕上显示"HOLD"，意味着按键锁定功能已被激活；取消锁定即可正常录音 3）检查SD卡是否能正常使用，若屏幕上出现"无SD卡"或"SD格式错误"提示，请格式化SD卡或重新更换新SD卡使用。
插入Type-C数据线后无法供电	1）确保电源线接入到位 2）重新接入Type-C数据线

注意

1. 请勿在潮湿或有水的情况下使用本机，不要将其暴露在雨中。请存放在阴凉干燥处。
2. 请在常温下使用和保存。不要频繁地将其从过热状态移至过冷状态，并远离热源，如加热器、烤箱或其他产生热量的设备。
3. 在使用和存放时，请注意防尘和防潮。
4. 小心避免猛烈的碰撞。
5. 为避免声学反馈，请勿将麦克风靠近扬声器。
6. 为获得最佳拾音模式，请勿将手靠在麦克风上。
7. 长时间不使用本机时，请将电池从电池仓中取出。

参数

录音轨道数	2
录音格式	.WAV （44.1kHz/16bit、44.1kHz/24bit、48kHz/16bit、 48kHz/24bit、96kHz/16bit、96kHz/24bit）
播放格式	.WAV （44.1kHz/16bit、44.1kHz/24bit、48kHz/16bit、 48kHz/24bit、96kHz/16bit、96kHz/24bit）
模数转换	24-bit、128x过采样
数模转换	24-bit、128x过采样
信号处理	32-bit
屏幕	LCD液晶屏128×64（带背光）
输入	• 内置90°XY立体声麦克风： 　最大输入声压级110dB SPL 　灵敏度−35dB 　单指向心形 • LINE/MIC IN：3.5mm TRS线性电平/麦克风输入 　增益 0~30dB
输出	• 3.5mm立体声耳机监听孔： 　麦克风输入−耳机/线路输出：最大增益48dB 　线路输入−耳机/线路输出：最大增益36dB 　信噪比＞80dB（@60%音量，−30dBu输入） 　THD+N失真＜0.01%（@60%音量，−30dBu输入） 　频率响应20Hz−20kHz（@LINE IN输入） 　耳机输出功率：20mW + 20mW into 32Ω load
内置扬声器	0.5W/ 8Ω
USB输出接口	Type-C
供电	2节5号电池（镍氢电池或碱性电池） Type-C（直流电5V/1A）
录音时长	96kHz/24bit (wav) 下4小时（8GB SD卡） 44.1kHz/16bit (wav) 下13.5小时（8GB SD卡）
重量	155g
尺寸	157mm×45mm×25.8mm
SD卡容量	最高支持128GB

确认保修状态

1. BOYA保证所附硬件产品，从购入的日期起两年内，材质和工艺均无瑕疵。
   BOYA对非正常磨损不作担保，对事故或滥用造成的损坏也不作担保。
2. 产品保修起始日期以购机发票开具日为准。
3. 若无发票证明，则保修起始日期以SN号显示的出厂日期向后顺延90日为准。

您可以访问服务网址https://cn.boya-mic.com/service-policy，输入 SN号查询产品
是否在保修期内。该结果仅供参考,不作为判保标准。

售后保修信息

访问服务网址https://cn.boya-mic.com/service-policy，获取产品的服务政策，
如:保修政策、退换货政策、寄修服务等。

产品只能在购买地所在国家或者区域享受到维保服务。

服务网站
获取全面的服务信息
https://cn.boya-mic.com/service-policy