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修改名称	版本	变更内容	变更日期	变更担当

BY-X1D BY-X1U

Single-Axis Smartphone Gimbal & Wireless Microphone System

手机单轴稳定器 (无线麦克风系统)

User Manual
用户手册

INTRODUCTION

Thanks for choosing BOYA!

BOYABY-X1 is a single-axis smartphone gimbal, providing motorized roll motion control for smartphones to keep your horizon stable.

It also doubles as a receiver, working with the supplied transmitter for wireless audio transmission.

The BY-X1 is compatible with Android/iOS phones, delivering clear and intelligible sound for your device.

It is perfect for live streaming, vlogging, selfie shooting, tutorial recording and more.

PACKAGE CONTENTS

BY-X1D

- BY-X1 Smartphone Gimbal & Receiver
- Wireless Transmitter
- Remote Control
- Remote Control Mount
- Fur Windshield
- 3.5mm TRS to Lightning Audio Output Cable
- Type-C to USB-A Charging Cable

BY-X1U

- BY-X1 Smartphone Gimbal & Receiver
- Wireless Transmitter
- Remote Control
- Remote Control Mount
- Fur Windshield
- 3.5mm TRS to Type-C Audio Output Cable
- Type-C to USB-A Charging Cable

BY-X1D

BY-X1U

PRODUCT STRUCTURE

Smartphone Gimbal & Wireless Receiver

- Smartphone holder
- Locking knob
- Extension pole
- Tripod
- Roll motor
- Position lock
- Type-C charging port
- 3.5mm output jack
- Audio/Pair button

- Press and hold the button for 3s to turn on/off the receiver.

Receiver status Indicator

Flash	Indicator Status
Unpaired	Slowly flashing blue light
Pairing	Quickly flashing blue light
Paired successfully	Solid blue light
Low battery	Quickly flashing red light

11. Powerbutton

- Press and hold the button for 3s to turn on/off the smartphone gimbal.

12. Gimbal status indicator

Mode	Indicator Status
Power on	Slowly flashing blue light
Abnormally operating	Quickly flashing red light
Low battery	Quickly flashing red light
Charging	Solid red light
Fully charged	Light off

Wireless Transmitter

1. Power button

- Press and hold the button for 3s to turn on/off the transmitter.
- Short press the button to mute/unmute the microphone.

2. Power indicator

Mode	Indicator Status
Unpaired	Slowly flashing blue light
Pairing	Quickly flashing blue light
Paired successfully	Solid blue light
Mute ON	Slowly flashing red light
Low battery	Quickly flashing red light
Charging	Solid red light
Fully charged	Light off

3. ▲/▼ button

- Microphone input level control.

4. 3.5mm TRS MIC IN Jack

- It can be connected to a 3.5mm TRS microphone.

5. Built-in microphone

6. Belt clip

7. Type-C charging port

Remote Control

1. ON/OFF switch

2. Power indicator

Mode	Indicator Status
Unpaired	Quickly flashing blue light
Paired successfully	Slowly flashing blue light

3. Shutter/Record button

- Press once to take a photo or start/stop recording.
- Press and hold for burst shooting when in photo mode.

4. Lanyard hole

5. Lanyard

6. Remote Control Mount

OPERATION GUIDE

Use as a smartphone gimbal

1. Unfold the BY-X1

2. Rotate the position lock to loosen it.

Note: Rotate it in the reverse direction to lock. You can use the BY-X1 as a selfie stick.

3. Pull the smartphone holder and put your smartphone in.

4. Extend and unfold the handle according to your needs.

5. Press and hold the Power button for 3s to turn on the smartphone gimbal.

Note: Please unlock the position lock before powering on the gimbal.

6. Landscape/Portrait mode switching

Short press the Power button to switch between Landscape and Portrait mode.

Note: Single-click for clockwise rotation. Double-click for counter-clockwise rotation.

7. Adjust the gimbal towards the subject you want to record

CALIBRATION

If the gimbal cannot work normally, please calibrate it as follows:

- Press the Power button 5 times continuously within 10s after powering on. The indicator will flash in blue quickly.
- After the gimbal automatically rotating once, the indicator turns alternating red and blue.
- Turn the side with indicator up, and short press the Power button. When the indicator turns blue and flashes slowly, the calibration is completed.

Use as a receiver

- Press and hold the Audio button for 3s to turn on the receiver.
- Press and hold the Power button for 3s to turn on the transmitter.
- Transmitter & receiver pairing

Before leaving the factory, the system has been paired successfully. If they are disconnected or unpaired, please see below for pairing instructions:

- Make sure that receiver and transmitter are powered off.
- Press and hold the Pair button of the receiver for 6s.
- When the receiver indicator flashes in blue rapidly, press and hold the Power button of the transmitter for 6s to enter pairing mode.
- When pairing is successful, the indicators will turn solid blue.

4. Use the supplied output cable to connect the receiver to your smartphone.

5. You are ready to record.

Note: Due to 2.4GHz wireless frequency, signal can be easily attenuated. Please try to avoid obstacles, such as walls and buildings, and avoid close proximity to devices with 2.4GHz signal, such as high power wifi antennas, smartphones with wifi in use, radio, etc.

Remote Control

- Switch on the remote control.
- Turn on Bluetooth, then select "BTMM-BT101" on your phone.
- When connection is established successfully, the indicator will flash in blue slowly.
- Open your smartphone's camera app.
- Press the shutter/recording button to take a photo or start/stop recording. Press and hold for burst shooting when in photo mode.

FEATURES

- Single-axis smartphone gimbal stabilizer
- Motorized roll motion control
- One-button switching between Landscape and Portrait mode
- Work with transmitter for wireless audio transmission
- Foldable and easy to carry
- Extended pole for selfie shooting
- Compatible with Android/iOS devices
- Remote Control included

SPECIFICATIONS

Smartphone Gimbal & Wireless Receiver

Nominal Capacity	900mAh
Battery Type	Lithium-Ion Polymer Battery
Charging Time	Approx. 2 hrs (5V/1A)
Battery Life	12 hrs
Normal Voltage	3.7 V
Charging Temperature	0°C-40°C
Connector	Type-C Charging Port
Load Capacity (Reference Value)	1.0kg
Angular Vibration Range	Roll Axis: ±6.1°
Max. Cornerable Speed	Roll Axis: 180°/s
Transmission type	2.4GHz
Modulation	FSK
Operating Range (without obstacles)	30m
Audio Output Connector	3.5mm Jack
Operating Current	0.3A-1.5A
Weight	269.5g
Dimensions	202*35*75.5mm
Operating Temperature	0°C to 50°C
Storage Temperature	-20°C to +55°C

Wireless Transmitter

Transmission Type	2.4GHz
Modulation	FSK
Operating Range (without obstacles)	30m
Polar Pattern	Omnidirectional
Frequency Response	50Hz-15kHz
Maximum SPL	Built-in Microphone: 115dB SPL Lavalier Microphone: 115dB SPL
Sensitivity	Built-in Microphone: -39dB Lavalier Microphone: -36.5dB
Signal to Noise Ratio	> 70dB
Power Requirements	3.7V Built-in Li-Ion Battery
Charging Time	Approx. 2hrs (5V/1A)
Battery Life	12hrs
Audio Input Connector	3.5mm Mic In Jack
Weight	156g
Dimensions	54*24*21.85mm
Storage Temperature	-20°C to +55°C
Operating Temperature	0°C to 50°C

感谢选择BOYA!

BOYA BY-X1是一款手机单轴拍摄稳定器，为手机的拍摄提供稳定的防抖功能。产品还具备清晰的无线音频接收功能，通过音频线连接手机，为手机提供清晰的收音，使拍出的视频画面、声音更加清晰流畅。

BY-X1适用于旅游拍摄、亲子摄影、实时直播、VLOG短视频拍摄、教学录制等场景使用。

包装清单

BY-X1D

- BY-X1手机稳定器 (带无线接收器)
- 无线发射器
- 蓝牙遥控器
- 遥控器支架
- 防风毛套
- 3.5mm TRS转Lightning音频输出线
- Type-C转USB-A充电线

BY-X1U

- BY-X1手机稳定器 (带无线接收器)
- 无线发射器
- 蓝牙遥控器
- 遥控器支架
- 防风毛套
- 3.5mm TRS转Type-C音频输出线
- Type-C转USB-A充电线

BY-X1D

BY-X1U

产品结构 (带无线接收器)

- 手机夹
- 固定按钮
- 延长杆
- 三脚架
- 摄像头电机
- 手机夹固定按钮
- Type-C 充电孔
- 3.5mm音频输出孔
- 音频/配对键

- 长按此键3秒，可打开/关闭接收器。

10. 接收器状态指示灯

模式	指示灯状态
未配对成功	慢闪蓝色
配对中	快闪蓝色
配对成功	常亮蓝色
低电量	快闪红色
充电中	常亮红色
充满电	灯灭

11. 固定器开关

- 长按此键3秒，可打开/关闭固定器。

12. 固定器状态指示灯

模式	指示灯状态
未配对成功 (闪烁)	慢闪蓝色
配对中	快闪蓝色
配对成功	常亮蓝色
低电量	快闪红色
充电中	常亮红色
充满电	灯灭

无线发射器

- 固定按钮
- 电源指示灯
- ▲/▼ 键
- 麦克风输入孔
- 防风毛套
- Type-C 充电孔

蓝牙遥控器

- 固定按钮
- 电源指示灯
- 拍摄键
- 单击拍摄/录像
- 长按模式，长按选拍。
- 挂绳孔
- 遥控器支架

使用方法

1. 展开固定器

2. 将手机夹背后的旋钮调松

注意: 不需要用到固定器功能，可将此旋钮调紧，充当自拍杆使用。

3. 拉手机夹，将手机左右居中置入

4. 根据拍摄需要，展开手持支架及伸缩杆

5. 长按固定器开关3秒，固定器功能打开

注意: 开机使用前，请务必解锁手机夹锁定按钮。

6. 横竖拍摄或切换

- 短按固定器开关键切换横竖模式。
- 单击: 顺时针旋转。
- 双击: 逆时针旋转。

7. 如图所示，根据拍摄对象调节稳定器角度

稳定器校准

若稳定器出现不平衡状态，请按以下步骤进行校准:

- 将稳定器开机，并在开机后10秒内连续按固定器开关5次，提示灯呈蓝灯闪烁，稳定器启动。
- 在稳定器转动一圈后，提示灯呈蓝灯交替闪烁状态。
- 在蓝灯闪烁状态下，将稳定器呈蓝灯交替闪烁的一面朝上，然后短按固定器开关，待提示灯变为蓝灯慢闪，校准完成。

注意:

- 校准前，请将稳定器置于水平桌面上。
- 手机夹若不平衡，受到，提示灯会呈蓝灯快闪。
- 若10分钟内没有校准，稳定器会自动关机。
- 若校准后出现异常，提示灯会呈蓝灯常亮，请重新校准设备。

无线接收器使用方法

- 长按固定器3秒，打开接收器功能
- 长按发射器电源键3秒，启动发射器
- 发射器和接收器配对

发射器和接收器的出厂默认设置是已配对成功，若无成功连接，请进行下一步配对操作:

- 确保发射器和接收器都处于关机状态下。
- 长按接收器音频/配对键3秒，当提示灯呈蓝灯快闪时，长按发射器电源键3秒，进入配对模式。
- 配对成功后，提示灯呈蓝灯常亮。

4. 用配套的转接音频接收器连接手机设备

5. 开始录制

参数

手机稳定器 (带无线接收器)

续航容量	900mAh
电池类型	聚合物锂电池
充电时间	约2小时 (5V/1A)
额定电压	3.7 V
充电温度	0°C-40°C
支持接口类型	Type-C 充电孔
负载容量 (参考值)	1.0kg
角速度	陀螺仪: ±0.1°/s
最大可控转速	速度方向: 180°/s
传输速率	2.4GHz
传输模式	FSK
传输距离 (无障碍)	30m
音频输出接口	3.5 mm插孔
工作电压	0.3A-1.5A
重量	269.5g
尺寸	202*35*75.5mm
工作温度	0°C - 50°C
储存温度	-20°C - +55°C

特点

- 单轴手机三轴稳定器
- 摄像头电机控制，稳定防抖
- 一键切换横竖拍
- 搭配发射器使用，实现无线音频传输
- 便携可折叠
- 伸缩自如，可充当自拍杆
- 兼容安卓/iOS设备
- 配备蓝牙遥控器

无线发射器

传输速率	2.4GHz
传输模式	FSK
传输距离 (无障碍)	30m
传输模式	全向型
频率范围	50Hz-12kHz
最大声压级	内置麦克风: 115dB SPL 外接麦克风: 115dB SPL
灵敏度	内置麦克风: -39dB 外接麦克风: -36.5dB
信噪比	> 70dB
电池类型	3.7V内置锂电池
充电时间	约2小时 (5V/1A)
额定电压	3.7V
音频输入接口	3.5mm麦克风输入孔
重量	156.0g
尺寸	54*24*21.85mm
工作温度	0°C - 50°C
储存温度	-20°C - +55°C

FCC Warning

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

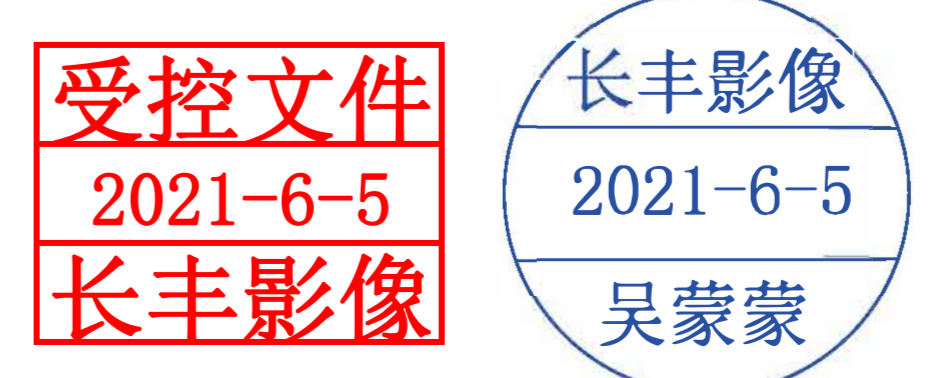
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates noise and can radiate 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.

The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure condition without restriction.

技术要求:

- 表面无色差
- 无正负公差
- 包装标注尺寸为内尺寸



JIAYZ 长丰 深圳市长丰影像器材有限公司				
子件名称	BY-X1中英文说明书	版本	V00	
子件编号	1F0300300418	材质	80g书写纸 骑马钉 28P	
尺寸	100x140	比例	1:1	单位 mm
设计/日期	吴蒙蒙 2021-6-5	审核	暂无	核准/日期 赵宏亮