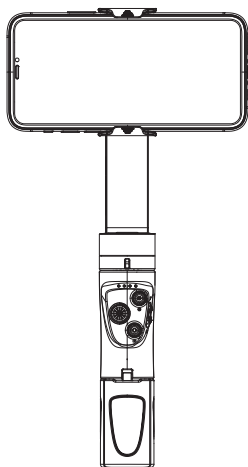


Duken

# Switch X 说明书

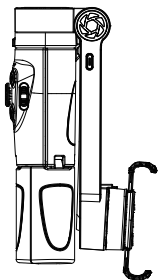


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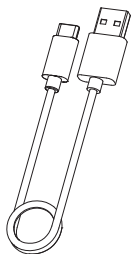
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## 产品清单

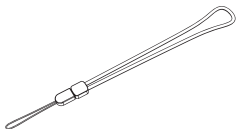
使用本产品前, 请仔细检查产品包装内是否包含以下所有物品, 若有缺失, 请联系客服或您的代理商。



主机 x1



USB Type-C数据线 x1



挂绳 x1

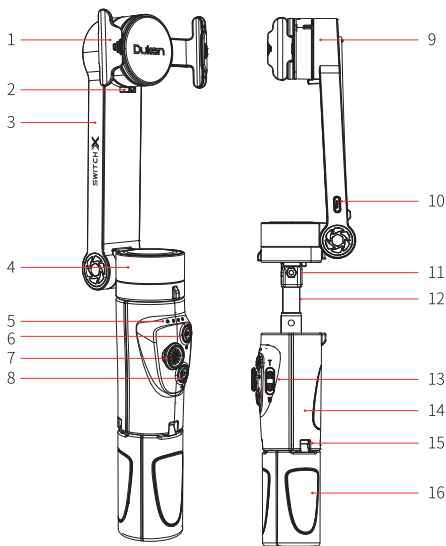


快速入门指南 x1

## 产品概述

DUKEN Switch X是为照片、视频拍摄、Vlog、分享而打造,包括全景拍摄、轨迹摄影、物体追踪等功能,让用户可以随手拍,不错过每一个精彩瞬间。

## 认识产品

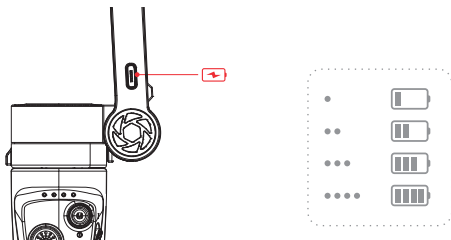


- |           |                 |            |
|-----------|-----------------|------------|
| 1. 手机夹    | 7. 云台摇杆         | 13. WT变焦拨杆 |
| 2. 横滚轴锁扣  | 8. 拍照/录像键       | 14. 手柄     |
| 3. 竖臂     | 9. 横滚轴电机        | 15. 挂绳孔    |
| 4. 航向轴电机  | 10. 充电接口(USB-C) | 16. 三脚架    |
| 5. 指示灯    | 11. 俯仰调节轴       |            |
| 6. M键/电源键 | 12. 伸缩杆         |            |

## 准备

充电

Switch X 使用内置电池。首次使用前, 请先给 Switch X 充满电。



充电方法:使用包装内提供的 USB-C 数据线连接电源适配器(自备,推荐5V 1A 规格或以上)与稳定器竖臂接口。当四颗指示灯全亮(关机状态)时表示充电完成。

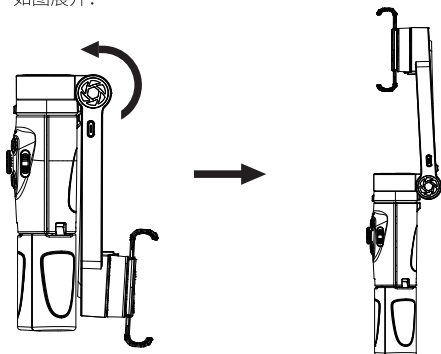
充电时间:约1.5小时(5V 1A电源适配器)

工作时间:约8小时

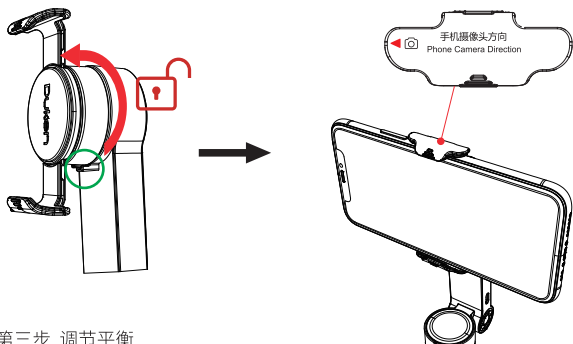
\* 工作时间为Switch X达到理想平衡状态时测得, 仅供参考。

## 安装手机及调节平衡

第一步 如图展开:

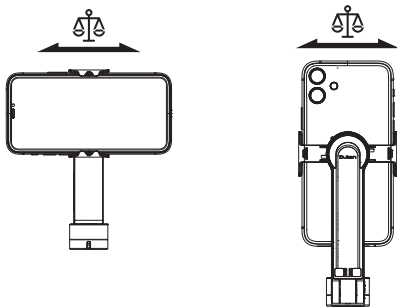


第二步 横滚轴逆时针旋转180°解开锁扣,手机对着箭头标识夹入手机夹。



### 第三步 调节平衡

安装手机, 请注意手机镜头方向放置在手机夹左边, 之后分别调节横拍和竖拍时的平衡。横拍时左右调节手机在手机夹中的位置, 使手机在自然状态下能基本保持水平; 竖拍时左右调节手机夹的位置, 使手机在自然状态下能基本保持水平。



- ①安装手机时,手机背面应紧贴手机夹的面板,手机长边应完全扣入手机夹中,确保安装牢靠,防止摔落。
- ②在未装入手机前,请勿开机。手机的平衡状态对稳定器的续航时间有很大影响,手机不平衡时稳定器仍可工作,但会消耗更多电量,同时用于增稳的扭力也会变小。
- ③稳定器横滚轴最大可旋转 330°,航向轴最大可旋转 326°,请勿超出限位以免损坏稳定器。

## 产品激活

在使用本产品过程中,需要下载安装Duken APP进行产品激活。请在手机软件商店搜索“Duken”或使用手机扫描二维码安装APP。

(Android 6.0 以上、iOS 9 以上)

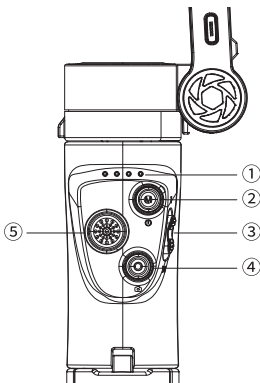


扫码下载APP



产品激活步骤:

1. 稳定器安装手机及调节平衡。
2. 打开稳定器电源, 打开手机蓝牙。
3. 打开“Duken”应用, 进入设备列表, 选择Switch X稳定器。
4. 首次使用 Switch X, 需要通过 APP 激活, 否则电机将不工作。激活过程需要连接互联网。
5. 设备激活成功后, 电机恢复工作, APP 进入相机拍摄界面。



- 黄色(隔5s, 间隔500ms双闪两下)表示蓝牙没连接。
- 黄色呼吸2s表示休眠模式
- 绿灯单闪表示左右跟随模式。
- 绿灯常亮表示全锁定模式。
- 绿灯双闪表示为横滚航向跟随模式(全跟随)。
- 红灯常亮表示故障。
- 红灯单闪表示云台电量低。
- 黄色和红色交替闪烁表示固件升级中。

- 单击稳定器在左右跟随模式(航向跟随横滚锁定)、全锁定模式、横滚航向跟随模式(全跟随)间循环切换。
- 双击稳定器在横拍和竖拍模式间循环切换,同时回中。
- 长按开机/关机。

- 在APP应用中, 上、下拨动控制变焦。
- 在 APP 应用中, 您可自定义 按键功能 (变焦、对焦)。

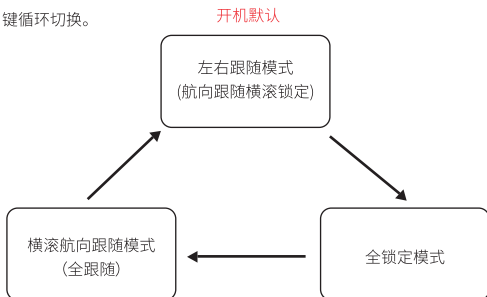
- 在Dukn APP拍照模式下,单击拍照。
- 在Dukn APP录像模式下,单击开始/停止录像。
- 在Dukn APP中,双击切换拍照或录像模式。
- 在Dukn APP中,三击切换前后摄像头。
- 稳定器可控制手机原生相机拍照或录像。
- 长按进入或退出待机状态。

- 上下推动云台摇杆控制云台横滚转动。
- 左右推动云台摇杆控制云台航向转动。
- 中间按键:在APP应用中,单击弹出功能菜单,按摇杆上下可以滑动菜单,双击中间按键,启动选择的功能。



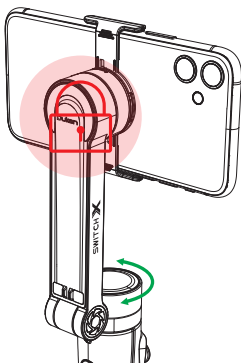
### 工作模式说明

单击 M 键循环切换。



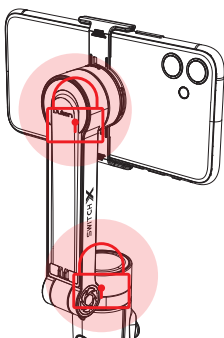
左右跟随模式:开机默认。

横滚轴电机锁定,手机水平方向跟随手柄转动。向上推/ 向下推摇杆改变横滚角度, 向左推 / 向右推改变水平朝向。

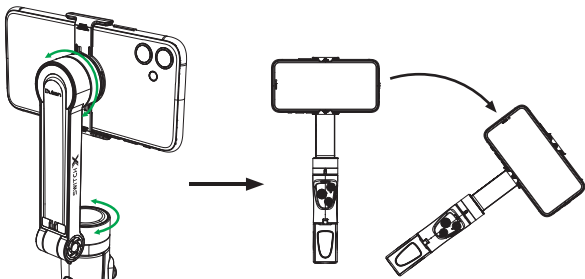


绿圈表示该电机跟随手柄运动改变角度,红圈表示该电机锁定角度,不跟随手柄运动。

两个电机全部锁定角度,手机朝向不会跟随手柄运动而运动。向上推 / 向下推摇杆改变横滚角度,向左推 / 向右推改变水平朝向。



两个电机全部跟随手柄转动。向上推 / 向下推摇杆改变横滚角度, 向左推 / 向右推改变水平朝向。

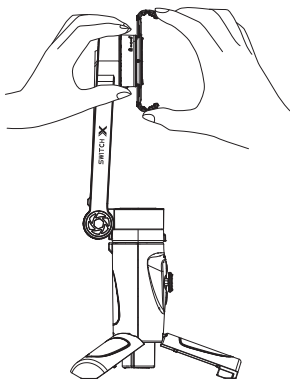
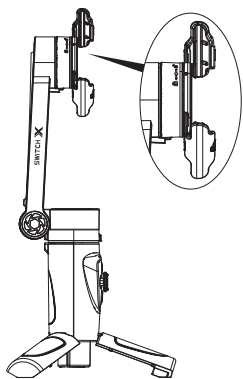




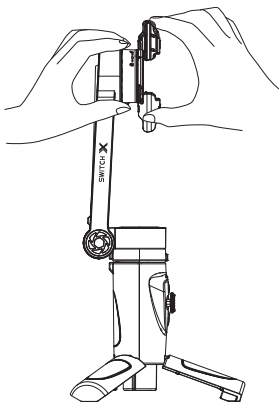


## 快拆手机夹

手机夹锁紧:左手握住电机,右手捏住手机夹,将手机夹上的白点对准电机上的白点,逆时针旋转听到“哒”一声锁紧。



手机夹松开:左手握住电机,右手捏住手机夹,将手机夹顺时针旋转松开。


















## 使用Duken APP

产品激活后,APP 进入相机拍摄界面:



- 1、设置 :允许充电使用设备,加速度校准,陀螺仪校准,固件版本,硬件版本,蓝牙固件版本,apk版本。
- 2、相机设置 :添加辅助线,闪光灯,录像分辨率,拍摄静音,对焦或变焦控制选择。
- 3、一键美颜 
- 4、选择和添加滤镜 
- 5、点击返回首页 
- 6、特征追踪功能开关 :打开“特征追踪”,用户可以框选目标物体,稳定器的航向轴方向会跟随目标物体移动,使目标始终保持在拍摄画面特定区域(默认是画面中央位置)。
- 7、蓝牙状态 :蓝色表示已经连接设备,白色表示没连上。
- 8、点击进入图库 
- 9、点击图标切换手机前后摄像头 
- 10、点击开始或停止拍摄 
- 11、拍照功能 :单张拍照(含倒计时拍照),全景拍摄,九宫格。  
视频功能 :普通视频,移动变焦,延时摄影。
- 12、拍照功能和视频功能切换按钮 

## 使用原生相机

在手机设置中连接蓝牙连接 Switch X 后，不需要连接 Duken APP 也可以通过 Switch X 控制手机原生相机拍摄 (适用于支持音量键控制拍照的手机; 蓝牙连接不需要密码)。

## 固件升级

Switch X可以通过Duken APP升级。

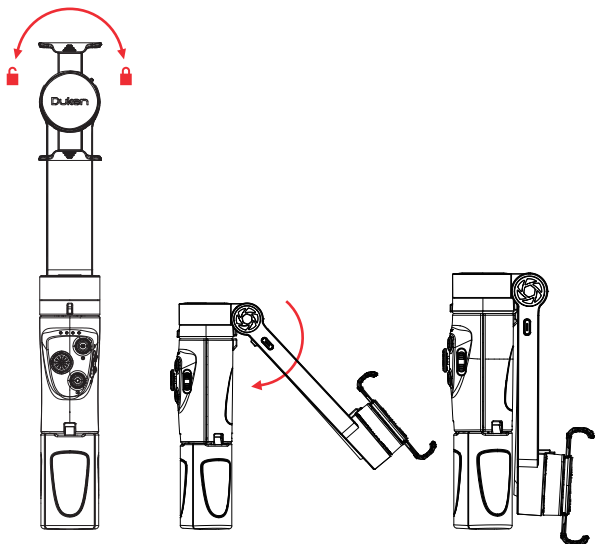
根据本手册“APP 的使用”中介绍的方法，使稳定器与 APP 连接，在APP相机界面，点击”设置”按钮后，如 APP 提示可以升级固件，请点击操作。

固件升级前请确保稳定器电量指示灯至少两格灯亮；升级过程中不可退出APP 界面或转入后台，留意APP提示信息。升级过程中系统状态指示灯黄色和红色交替闪烁。升级成功后，请重启Switch X和Duken APP。

若升级失败，请重启Switch X和Duken APP，并连接设备蓝牙后重新升级。

## 收纳

稳定器横滚轴内置锁定装置，方便在关机状态下进行收纳和运输。手动将手机夹转至锁定位置，即可锁定。用于增稳使用时，请先将稳定器调至解锁状态。





## 规格参数

名称	Switch X
型号	DK-S
尺寸	收纳尺寸:155*90*72mm 含手柄长达:约470mm
重量	约298g
横滚轴结构转动范围	330°
航向轴结构转动范围	326°
使用手机	最大负载:约240g 厚度:7-10mm 宽度:68-88mm
无线模式	低功耗蓝牙4.0
等效全向辐射功率(EIRP)	≤4dbm
工作频率	2.400-2.4835GHz
电池类型	聚合物锂离子电池
容量	1000mAh
能量	3.7Wh
电压	4.2V
充电环境温度	5至45°C
工作环境温度	-10至45°C
充电电流/电压	5V 1A及以上
充电时间	1.5小时 (25°C环境温度下使用5V1A充电器测得)
续航时间	8小时(调平工况下的测试参考值)

说明:本手册所涉及的任何数据均为实验室内部测试结果,在不同的客观情况下,数据会有不同程度的误差,请以实机体验为准。

## 免责声明与警告

感谢您购买Switch X。本文所提及的内容关系到您的安全以及合法权益与责任。使用本产品之前，请仔细阅读本文以确保已对产品进行正确的设置。不遵循和不按照本文的说明与警告来操作可能会给您和周围的人带来伤害，损坏 Switch X 或其它周围的物品。本文档及 Switch X 所有相关的文档最终解释权归DUKEN品牌所有。如有更新，恕不另行通知。请访问[www.dukentech.com](http://www.dukentech.com) 官方网站以获取最新的产品信息。

一旦使用本产品,即视为您已经仔细阅读免责声明与警告,理解、认可和接受本声明全部条款和内容。您承诺对使用本产品以及可能带来的后果负全部责任。您承诺仅出于正当目的使用本产品,并且同意本条款以及 DUKEN 制定的任何相关条例、政策和指引。

除中国现行法律法规规定, DUKEN对于直接或间接使用产品、本资料而造成的损失、伤害以及任何法律责任不予负责。用户应遵循包括但不限于本文提及的所有安全指引。

警告

Switch X较为精密,使用者应具备基本的动手能力以及安全常识,并且需要小心使用。请先阅读Switch X 用户手册,熟悉产品功能之后再使用。不确定的操作将会导致产品损坏和财产损失,甚至带来人身伤害。本产品不合适儿童使用。请勿将Switch X与非DUKEN 提供、建议的产品配合使用,或者不按照 DUKEN提供的产品文档所提及的安全指引使用。本文档包含安全指引、操作和维护等说明。为了保证您能正确、安全地使用Switch X,在进行安装、设置和使用之前请务必仔细阅读用户手册以及安全指引中提及的所有说明警告,并且严格按照相关说明安装和使用Switch X。

## 安全操作指引

敬告生：  
言日：

1. 严禁使产品接触任何液体, 切勿将产品侵入水中或将其弄湿。切勿在雨中或者潮湿的环境中使产品。产品内部接触到水后可能会发生腐蚀反应, 从而引起电池自然, 甚至可能引发爆炸。
2. 若产品发生起火, 请立即使用水、水雾、沙、灭火毯、干粉、二氧化碳灭火器灭火。请根据实际情况按以上推荐顺序选择灭火方式。
3. 请在温度为  $-10^{\circ}\text{C}$  至  $45^{\circ}\text{C}$  之间的环境中使用产品。
4. 禁止以任何方式拆解产品。若拆解过程中刺破电池, 将会导致电池内部电解液泄露、甚至引发起火、爆炸。
5. 禁止机械撞击、碾压或抛掷产品。请勿在产品上放置重物。
6. 切勿对产品进行加热。请勿将产品放置于微波炉或压力锅中。
7. 禁止将产品放在靠近热源(火炉或加热器等)的地方以及将产品置于热天的汽车内。

8.切勿将电池彻底放完电后长时间存储,以避免电池进入过放状态而造成电芯损坏,将无法恢复使用。

$$d(M) \leq$$

1. Switch X 为高精度控制装置。摔落或受到外力碰撞可能会使 Switch X 损坏，导致工作异常。
2. 确保 Switch X 电源开启后，云台转动不受外力阻挡。
3. Switch X 不防水。请勿让 Switch X 接触到任何液体或对其任何清洁功能的液体。建议使用柔软的干布清洁 Switch X。
4. 使用 Switch X 的过程中请注意防尘防沙。

注意:

1. 充电完成后, 请断开产品与充电器的连接。
2. 若超过 10 天不使用产品, 请将电池放电至 40%-65% 电量存放, 这样可延长电池的使用寿命。
3. 每隔 3 个月重新充放电一次以保持电池活性。
4. 当 Switch X 启动时请保持手柄稳定, 启动过程中晃动 Switch X 有可能导致启动失败。

### 质保期限说明

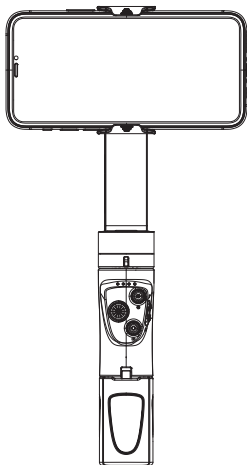
- 1.自签收日起 7 日内,出现质量问题,可享受换货或者免费维修服务。  
2.产品在正确使用及保养下的保修期限默认为自签收起一年,保修期限鉴于产品部  
位、不同国家法律法规等差异,将有所不同。相关区域保修期限,请咨询  
官网客服或购买时联系的授权经销商。

质保不包括

1. 未经授权的维修、误用、碰撞、疏忽、滥用、进液、事故、改动。
2. 不正确的使用本产品，或撕毁、涂改标贴、防伪标记。
3. 已超过三包有效期。
4. 因火灾、水灾、雷击等不可抗力造成的损坏。

**Duken**

# Switch X User Guide

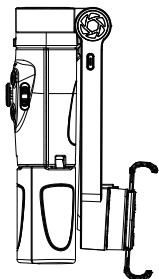


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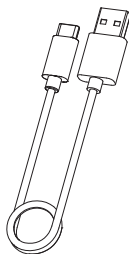
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## Packing List

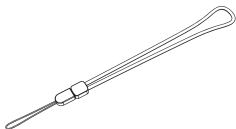
The product package comes with the following items. In case that any item is found missing, please contact DUKEN or your local selling agent.



Switch X x1



USB Type-C Cable x1



Wrist Strap x1

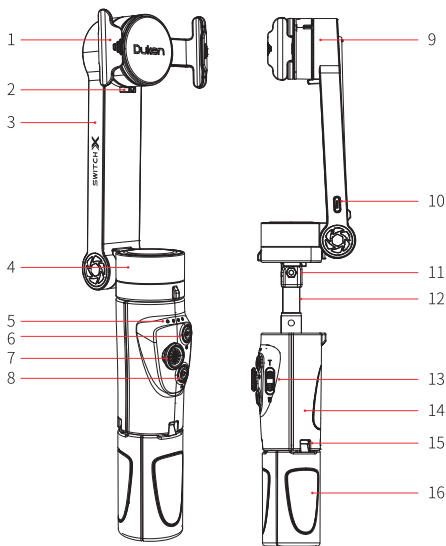


Quick Start Guide x1

## Product Overview

DUKEN Switch X is designed for taking photos, videos and vlogs, which include features such as panoramic shooting, path lapse, active track and so on, allowing shooters to compose with a lot of flexibility.

## Get to Know Switch X

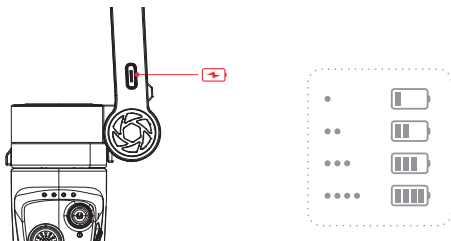


- |                          |                              |                      |
|--------------------------|------------------------------|----------------------|
| 1. Phone Clamp           | 7. Joystick                  | 13. WT Zoom Slider   |
| 2. Roll Axis Latch       | 8. Photo/Video Button        | 14. Handle           |
| 3. Vertical Arm          | 9. Roll Axis Motor           | 15. Wrist Strap Hole |
| 4. Pan Axis Motor        | 10. USB Type-C Charging Port | 16. Mini Tripod      |
| 5. Indicator             | 11. Tilt Adjustment Joint    |                      |
| 6. M Button/Power Button | 12. Telescopic Stick         |                      |

## Preparation

## Charging

Switch X is charged by built-in batteries. Before using it for the first time, please fully charge it to activate batteries and guarantee the appropriate use of the product.



Charging method: Connect Type-C cable provided in the package with adapter (5V/2A, not included in the package) to the port on the Gimbal vertical arm. When the four indicator lights are solid on, (when the Gimbal is powered off) the charging is completed.

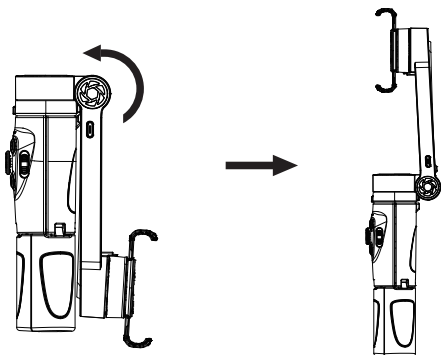
Charge Time: about 1.5 hours (with 5V 1A adapter)

Working Hour: about 8 hours

\* The working hour here was got when Switch X was in an ideal balanced state, which is for reference only.

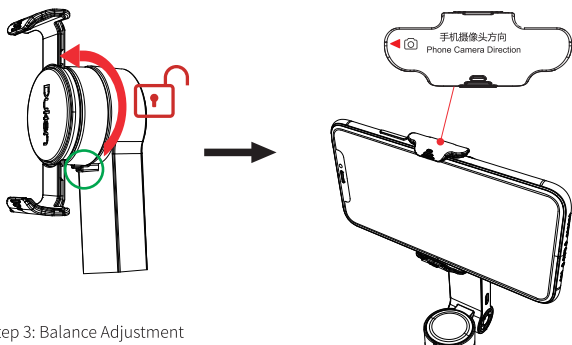
## Installation and Balance Adjustment

### Step 1: Unfold the Gimbal:



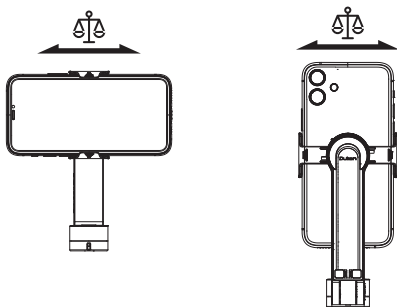


Step 2: Rotate the phone clamp counterclockwise 180° to unlock the roll axis lock. Follow the red arrow to fix the phone on the clamp.



### Step 3: Balance Adjustment

When installing the phone, please notice that the phone camera should be always on the left side of the clamp. Then balance the phone. Move the smartphone in the phone holder left or right until the smartphone remains balanced.



- ① When installing the smartphone, please make sure that the smartphone is fixed in the phone clamp firmly.
- ② Mount the smartphone before powering on the Gimbal. The balanced state of the smartphone will affect the Gimbal runtime. The Gimbal can work normally if unbalanced, but it will consume more battery power and weaken the motor strength.
- ③ The maximum rotation range of the roll axis is 330°, and the maximum rotation range of the pan axis is 326°. Rotation that exceeds the above limit will damage the Gimbal.

## Activation

Please search for "Duken" in the App Store or scan the QR code to install Duken APP (Android 6.0 or above, iOS 9 or above) to activate the Gimbal.



Scan the code to  
download the APP



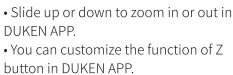
Activation Steps:

1. Phone Installation and balance adjustment.
2. Switch on the Gimbal and turn on the Bluetooth.
3. Open Duken App, select SWITCH X from the device list.
4. When used for the first time, SWITCH X should be activated through DUKEN APP, otherwise the motor cannot work.
5. After being activated, the Gimbal starts to work.

### Button and Interface Description

- The indicator blinks yellow twice after the gimbal is turned on for 5 seconds, suggesting the Bluetooth is disconnected.
- The indicator blinks yellow from bright to dark for 2s suggesting sleep mode.
- The indicator blinks green once means Pan Follow Mode.
- The indicator blinks solid green means Lock Mode.
- The indicator blinks green twice means Roll and Pan Follow Mode .
- The indicator blinks solid red means the Gimbal is malfunctioned.
- The indicator blinks red once means the battery is low.
- The indicator blinks yellow and red alternately means the firmware update.

- Single press M Button to switch among Pan Follow Mode, Locked Mode and Roll and Pan Follow Mode .
- Double press the button to recenter the Gimbal and switch between Landscape Mode and Portrait Mode.
- Long press the button for power on/off.

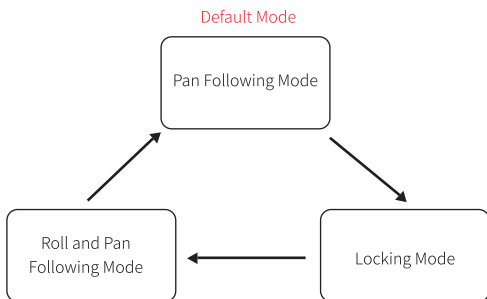


- Single press to take a picture in DUKEN APP.
- Single press to start/finish recording in DUKEN APP.
- Double press the button to switch between Photo and Video Mode in DUKEN APP.
- Triple press the button to switch between rear and front camera in DUKEN APP.
- Direct control of native phone camera.
- Long press to enter or exit Standby Mode.

- Push the joy stick up and down to adjust the Rolling Range.
- Push the joy stick left and right to adjust the Panning Range.
- Open DUKEN APP, press the joystick to get the Menu. Push the joy stick up or down to slide the Menu and double press the joystick to select the item you want.

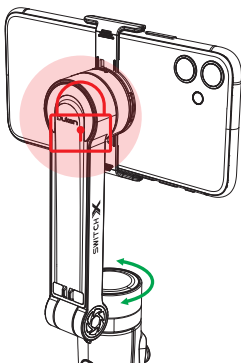
### Mode Description

Single press the M Button to switch among different modes.



Default mode: Pan Following Mode

Smartphone pans left/right following the movement of the Gimbal handle while roll axis motors are locked. Push the joystick up/down to control the roll axis manually, and push left/right to control the pan axis manually.

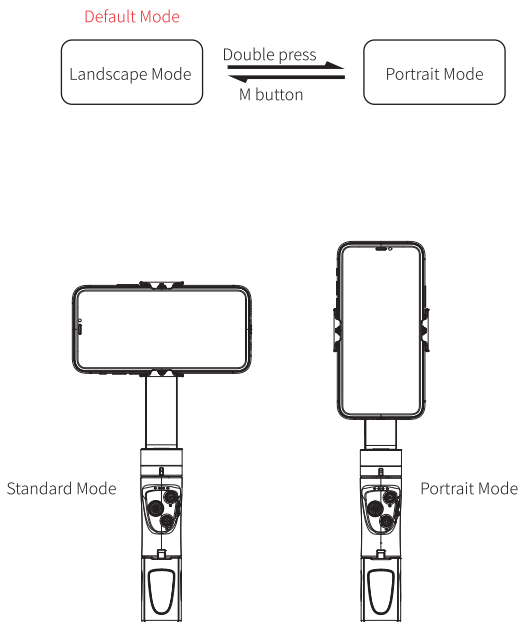


The green circle means the motor rotates along with the handle movement. The red circle means the motor is locked and cannot move along with the handle movement.



## Landscape Mode and Portrait Mode

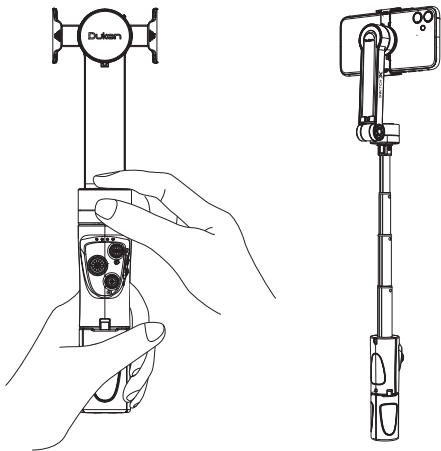
Double press M button to switch between Landscape Mode and Portrait Mode.



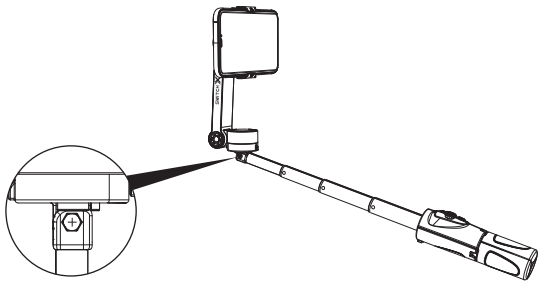
Landscape/Portrait Mode: Double press M button.

# Telescopic Stick

Hold the Gimbal's handle with one hand and hold the bottom cover of pan axis motor with another hand, then pull out or retrieve the handle.

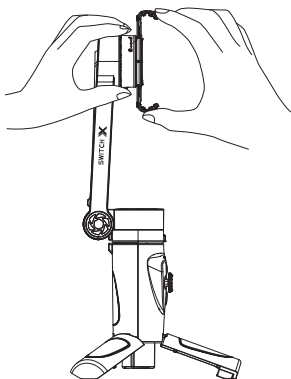
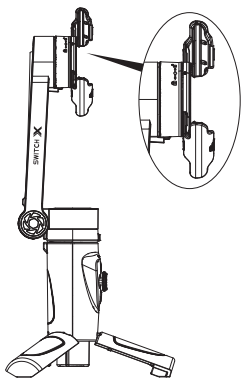


The control range of tilt axis is 90°. Rotation exceeds the angle will cause damage to the Gimbal. Use a cross screwdriver to tighten the tilt axis if loosen.

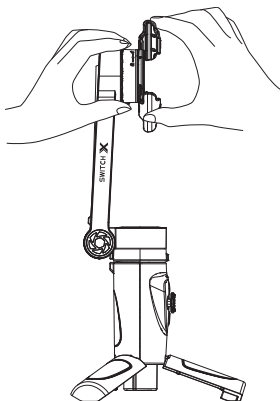


## Quick Release Phone Clamp

**Lock:** Hold the motor with the left hand and the phone clamp with the right hand, align the white point on the phone clamp with that of the motor, then rotate counterclockwise until you hear a click, which means the clamp is firmly locked.



Unlock: Hold the motor with the left hand and the phone clamp with the right hand, then rotate clockwise to unlock the phone clamp.




















## Duken APP

After the Gimbal is activated, the APP enters the camera shooting interface:



1. Settings  : Allow to use Gimbal while charging; Accelerometer Calibration; Gyroscope Erection System; Firmware version; Hardware version; Bluetooth hardware version; APP version.
2. Camera settings  : add auxiliary lines, flash, video resolution, shooting mute, focus or zoom control options.
3. Click to beautify 
4. Filters are available 
5. Click to return to the home page 
6. Active Track  : Click on the "Active Track" icon and frame the target object manually, then the object will always be kept in the center of the screen.
7. Bluetooth status  : Blue means connected, while white means disconnected.
8. Click to enter the Album 
9. Click to switch between Front Camera and Rear Camera 
10. Click to start or finish shooting 
11. Photo  : single photo (including countdown shooting), pan-shot and Sudoku mode.  
Video  : ordinary video, Hitchcock zoom and Time Lapse.
12. Icon for photo and video switch 

## Direct Control of the Phone Camera

When connected via Bluetooth, Switch X is able to control the native phone camera without DUKEN APP. This feature is available with a mobile phone which supports camera control using the volume button. Bluetooth connection with Switch X doesn't require password.

## Firmware Upgrade

Switch X can be upgraded via Duken APP.

Connect the Gimbal to the APP following the steps listed in “APP Operations”. Click "Settings" on the camera interface, if it prompts that new firmware has been released, then follow the instructions to upgrade.

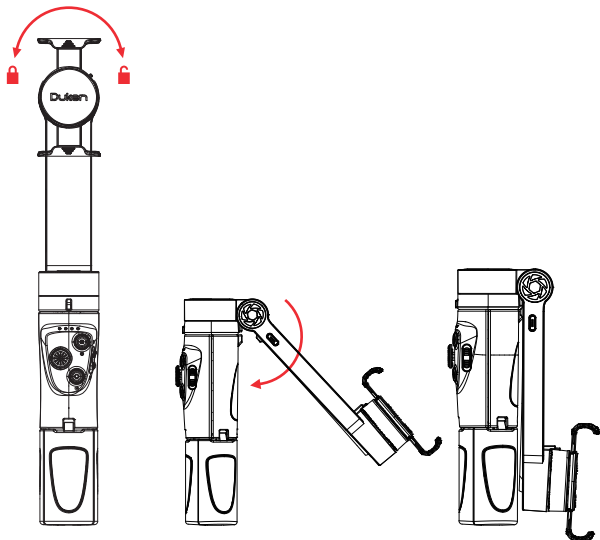
Make sure that at least two power indicators are on before upgrade; Do not exit the APP interface or switch to the background while upgrading and keep attention to the prompt in the APP; The indicator blinks yellow and red alternately during upgrade; Restart Switch X and Duken APP after the upgrade succeeds.

If the upgrade fails, please restart Switch X and Duken APP and connect them to each other, then upgrade again.

## Easy Storage

There's a built-in lock design in stabilizer's roll axis and pan axis for your convenient storage and transportation (when the Gimbal is powered off).

Rotate the smartphone clamp and pan axis to the lock position to lock them, and adjust them to unlock state when in use.



## Specs

Product	Switch X
Model	DK-S
Size	Folded Size:155*90*72mm Length(handle included):about 470mm
Weight	about 298g
Roll Mechanical Range	330°
Pan Mechanical Range	326°
Applicable Phones	Maximum load :about 240g Thickness:7-10mm Width:68-88mm
Bluetooth	Low Power Consumption Bluetooth 4.0
Equivalent Isotropically Radiated Power	≤4dbm
Operation Frequency	2.400-2.4835GHz
Battery Type	Polymer Li-ion Battery
Battery Capacity	1000mAh
Energy	3.7Wh
Voltage	4.2V
Charging Temperature	5°C-45°C
Working Temperature	-10°C-45°C
Charging Current/Voltage	5V 1A or above
Charging Time	1.5 Hours (Measured at 25°C with a charger of 5V 1A)
Battery Life	8 Hours (Phone Balanced)

All the data in this guide is gathered from internal experiments of DUKEN laboratories. Under different scenarios, data is different to some extent and please refer to actual use of Switch X.

## Disclaimer and Warning

Thank you for using Switch X. The information contained herein affects your safety and your legal rights and responsibilities. Read this entire document carefully to ensure proper configuration before use. Failure to read and follow the instructions and warnings herein may result in serious injury to you or bystanders, or damage to Switch X or property. DUKEN reserves the right of final explanation for this document and all relevant documents relating to Switch X, and the right to make changes at any time without notice. Please visit [www.duken-tech.com](http://www.duken-tech.com) for the latest product information.

By using this product, you hereby signify that you have read this document carefully and that you understand and agree to abide by the terms and conditions herein. You agree that you are solely responsible for your own conduct while using this product, and for any consequences thereof.

You agree to use this product only for purposes that are proper and in accordance with all terms, precautions, practices, policies and

guidelines DUKEN has made and may make available.

DUKEN accepts no liability for damage, injury or any legal responsibility incurred directly or indirectly from the use of this product. Users shall observe safe and lawful practices including, but not limited to, those set forth herein.

### Warning

Read the ENTIRE User Guide to become familiar with the features of this product before operating. Failure to operate the product correctly can result in damage to the product or personal property and cause serious injury. This is a sophisticated product. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. DO NOT use with incompatible components or in any way otherwise as mentioned or instructed in the product documents provided by DUKEN. The safety guidelines herein contain instructions for safety, operation and maintenance. It is essential to read and follow all of the instructions and warnings in the User Guide, prior to assembly, setup or use, in order to operate the product correctly and avoid damage or serious injury.

## Safe Operation Guidelines

Warning :

- 1.Prevent the product to come into contact with any kind of liquid. Do not leave product out in the rain or near a source of moisture. Do not drop the product into water. If the inside of the product comes into contact with water, chemical decomposition may occur, potentially resulting in the product catching on fire, and may even lead to an explosion.
- 2.If the product catches fire, use water, water spray, sand, fire blanket, dry powder, or carbon dioxide fire extinguisher immediately to put out the fire. Please extint the fire by applying the methods recommended above according to the actual situation .
- 3.The product should be used within the temperature range from -10°C to 45°C.
- 4.Do not disassemble the product in any way. If puncturing the battery during disassembly, the battery may leak, catch fire or explode.
- 5.Do not mechanically strike, crush, or throw the product. Do not place heavy objects on the product.
- 6.Do not heat the product and never put the product in a microwave oven or in a pressurized container.

8. Do not leave the battery unused for too long after it has been completely discharged to prevent over-discharge of battery which may result in battery damage and permanent failure.

1. Switch X is a high-precision control device. Damage may be caused to Switch X if it is dropped or subject to external force, and this may result in malfunction.
2. Make sure the rotation of the gimbal axes is not blocked by external force when Switch X is turned on.
3. Switch X is not waterproof. Prevent contacts of any kind of liquid or cleaner with Switch X. It is recommended to use dry soft cloth for cleaning.
4. Protect Switch X from dust and sand during use.

1. Please disconnect the battery and the charger when fully charged.
2. If leaving the product unused for over 10 days, discharge the battery to 40%-65% for storage, which can extend the battery life.
3. Please charge and discharge the Switch X every three months to maintain the battery activity.
4. Keep the handle stable when powering on the Switch X. Shakiness during power-on may fail to start.

1. Customers are entitled to replacement or free repair service in case of quality defect(s) found in the product within 7 days upon receipt of the product.
2. Customers are entitled to free repair service from DUKEN for any product proven defective in material or workmanship that results in product failure during normal consumer usage and conditions within the valid warranty period, which is 12 months counting from the date of selling.

- 1.Products subjected to unauthorized repair, misuse, collision, neglect, mishandling, soaking, accident, and unauthorized alteration.
- 2.Products subjected to improper use or whose labels or security tags have been torn off or altered.
- 3.Products whose warranty has expired.
- 4.Products damaged due to force majeure, such as fire, flood, lightening, etc.