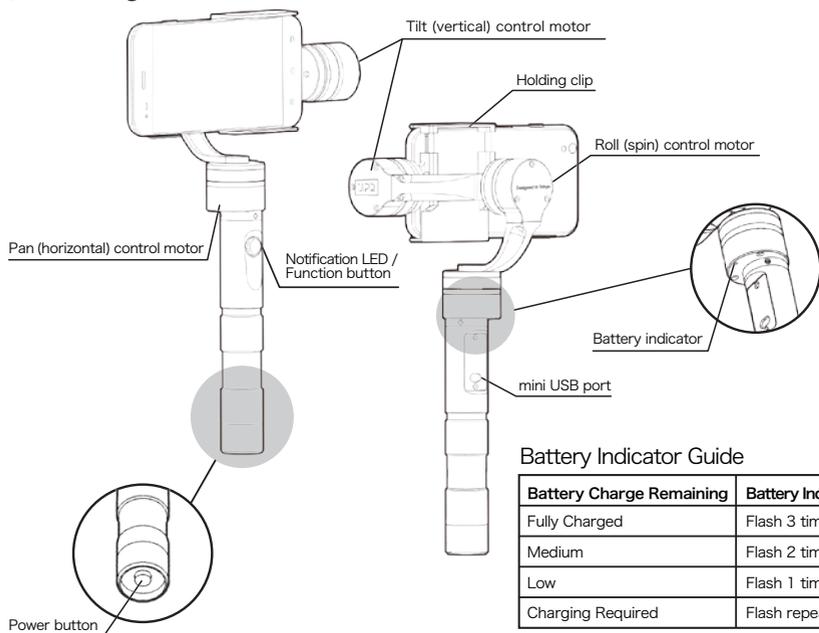# UPQ

Q-camera ES02　　User Manual

Thank you for purchasing our product. Please read this manual carefully before using the product and follow the safety guidelines.

Safety Guidelines
- Do not drop, hit or apply excess pressure to the product.
- Please attach a smartphone or a camera before turning on the power. If you turn on without a smartphone or a camera attached it may move unstably and cause of damage to the product.
- Assemble the product and attach a smartphone or a camera using the method listed in the instruction manual.
- Please **do not** attempt to personally repair, modify or dismantle the product.
- Please **do not** connect the mini USB port of this product directly to a smartphone or a camera.
- Please **do not** use any batteries other than the official rechargeable batteries. Unofficial batteries can cause damage to the product.
- Please **do not** use any chargers other than the official charger. Unofficial chargers can cause damage to the product.
- If there is something wrong with this product please discontinue use and contact our support center (support@upq.me).
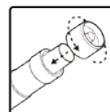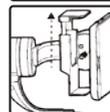

ES02 Diagram

Tilt (vertical) control motor

Holding clip

Roll (spin) control motor

Pan (horizontal) control motor

Notification LED / Function button

Battery indicator

mini USB port

Power button

Battery Indicator Guide

Battery Charge Remaining	Battery Indicator
Fully Charged	Flash 3 times (Blue)
Medium	Flash 2 times (Blue)
Low	Flash 1 time (Blue)
Charging Required	Flash repeatedly (Blue)

*If the indicator light is red the device requires resetting. Please refer to "Changing Modes Using The Function Button" for how to reset.
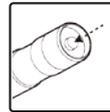
Set Up Guide

1. Insert official batteries
   Remove the cap where the power button is located, insert the 2 official batteries then reattach the power button cap.

2. Attach a smartphone or a camera
   Using the holding clip, attach a smartphone or a camera. Ensure the smartphone or a camera is securely attached before continuing.

3. Power on
   Turn on by pressing the power button.

4. Select mode
   By pressing the function button you can switch between the ES02's different modes. (Please refer to "Mode Select Guide" for more information)

Mode Select Guide

The ES02 has 5 different modes available.

- **Horizontal tracking mode**
  Lock the tilt control motor and roll control motor for smooth horizontal tracking.
- **Horizontal and tilt tracking mode**
  Lock the roll control motor for smooth tilt and horizontal tracking.
- **Immobilize mode**
  Lock all the motors.
- **Horizontal tracking mode (upside down)**
  Use this mode when you want to use a camera in a position at the bottom of the handle rather than at the top. Lock the tilt control motor and roll control motor for smooth horizontal tracking.
- **Sleep mode**
  Stop all motors temporarily without turning off via the power button.

Manual Tilt Setting

To manually adjust the tilt angle, alter the tilt angle within 10 seconds of powering on the ES02 and hold in that position for 0.5 seconds to save and lock the tilt angle position.
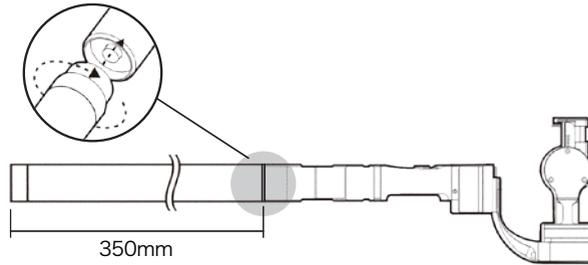*Not available when "horizontal and tilt tracking mode" is selected.

Changing Mode Using Function Button

Mode	Function button	Notification LED
Horizontal tracking mode	Press 1 time	Single flash
Horizontal and tilt tracking mode	Press 2 times	Double flash
Immobilize mode	2 Second long press	Always on
Horizontal tracking mode (upside down)	Press 3 times	Single flash
Sleep mode	4 Second long press	Always on
Reset	Press 4 times	Single flash

How To Connect Extension Bar

The extension bar (male screw) can be connected to the bottom of the ES02 (female screw) to extend the handle length.

350mm

Changing Mode Using Function Button

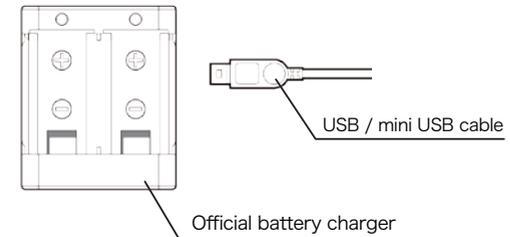|	Min	Standard	Max
Working Voltage	6.0V	8.0V	17V
Pitch Angle	-160° (Down)	0° (Horizontal)	+160° (Up)
Roll Angle	-50°	0° (Horizontal)	+50°
Pan Angle	-160°		+160°
Heading Angle	-50°		+50°
Pitch Following Rate	2°/ Sec		75°/ Sec
Heading Following Rate	3°/ Sec		150°/ Sec
Static Attitude Tracking Accuracy	0.01	0.02	0.05
Motion Attitude Tracking Accuracy	0.1	0.2	0.5
Overload Current Protection	800mA		
Weight	265g (without batteries and a camera)		

※1. Resting state
※2. Motor Force Limit < 2G

Accessories

・Extension Bar : 1pc

・Official Battery Charger : 1pc

・Official Batteries : 4pcs

・USB / mini USB cable : 1pc

・Official AC adaptor : 1pc

・USB connector : 1pc

Charging Guide

⚠ **Please follow the below instructions to charge the ES02.**

・Connect the offical battery charger and the mini USB.

USB / mini USB cable

Official battery charger

・It is required to connect the USB / mini USB cable and the USB connector if you would like to charge via a computer.

＜mini USB port＞　　　　　　　　　　　　　　　　　　　＜Computer＞

mini USB port

USB / mini USB cable　　USB connector