



**Aerial Photography**  
■ ■ ■ Explore new vision

**Revolutionize · Realize**



**TORUK AP10 Pro**

Fly with freedom Shoot with passion



Larger body  
Higher integration level



Symmetrical design for  
better flight performance



Greater mobility



Higher and  
farther flight



Professional design  
for remote control



Dual control  
mode on camera



Panoramic shooting

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# AEE AP10 Pro User Manual

V1.0 2015.6

Please read this "User Manual "carefully before using AP10 Pro.

## Conventions

Except when specifically stated, all AP10 Pro features described in this manual are for Quadcopter Operating Modes.



### **Warning :**

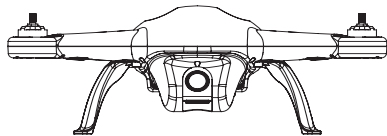
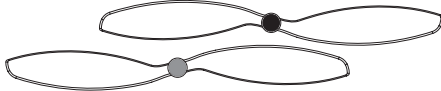
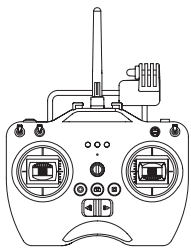
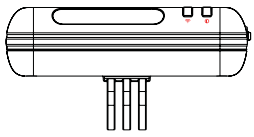
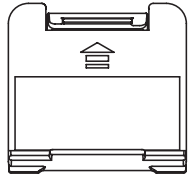
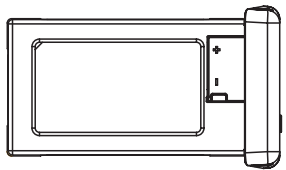
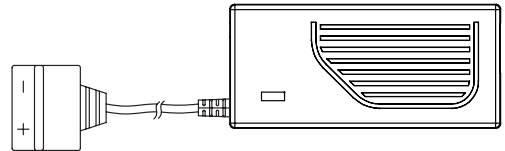
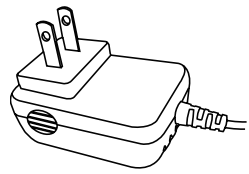
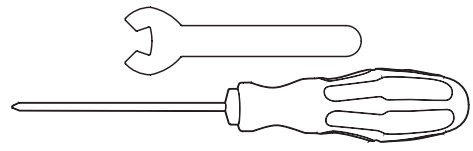
- (1) When installing the propellers, rotate the propellers strictly in the lock direction specified by the mark, and DO NOT apply too much force in order to avoid possible damage.
- (2) When removing the propellers, rotate the propellers strictly in the unlock direction specified by the mark, in order to avoid possible damage.

## Overview




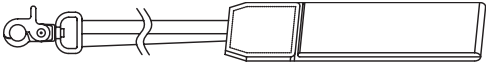
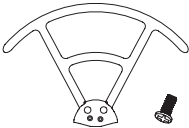


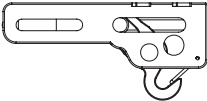
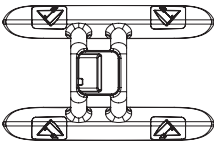
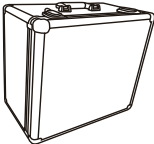

AP10 Pro is a high-tech electronic quadcopter with integrated flight and camera control. It is equipped with a 16 megapixel camera and advanced intelligent flight control system. You can use mobile devices to remote control the camera through the App, and achieve real-time transmission of video images. AP10 Pro will help you capture clear and stable aerial videos and photos.

## 1 Kit Contents

Before using, please check all items inside the kit box.

No.	Name	Diagram	Quantity	Description
1	Quadcopter		1 pcs	With integrated airborne camera
2	Propellers		4 pairs	4 pcs with black nuts; 4 pcs with gray nuts
3	Remote control		1 pcs	With Wi-Fi Repeater Base
4	Wi-Fi Repeater		1 pcs	For connecting mobile devices through Wi-Fi
5	Smartphone Holder		1 pcs	For attaching mobile devices
6	Quadcopter Battery		1 pcs	Quadcopter power supply
7	Quadcopter Battery Charger		1 pcs	100-240V 50/60Hz
8	Wi-Fi Repeater Adapter		1 pcs	100-240V 50/60Hz
9	Tools		1 set	1pcs wrench - (for disassembling propeller ) and 1pcs screwdriver (for assembling propeller guard)



10	AA batteries		4 pcs	For Remote control power supply
11	Manuals		1 pcs	Including: AP10 Pro User Manual , AP10 Pro Quick Start Guide,Disclaimer
12	Screws		1 pcs	For Wi-Fi Repeater
13	Lanyard		1 pcs	Remote control Lanyard
14	Propeller Guards		1 set	Including 4 Propellers Guards and 8 screws.
15	Micro SD card		1 pcs (16GB/32GB 64GB)	Inserted in Quadcopter Micro SD card port (optional)
16	CD		1 pcs	Containing User Manual, etc.. (optional)
17	Hook		1 pcs	It can be used to hang / airdrop lightweight objects (optional)
18	Float		1 pcs	Accessory for overwater take-off / landing (optional)
19	Aluminum box		1 pcs	(Optional)
20	Backpack		1 pcs	(Optional)

• Accessories you have received may vary due to different product customizations. Package contents are subject to change without further notice.

## 2 Quadcopter Introduction

Adopting high-standard integrated design and equipped with professional airborne photography equipment and a Wi-Fi Repeater, AP10 Pro provides excellent flight and aerial photography for outdoor or large indoor spaces. You only need to follow some simple installation steps before flight and taking aerial pictures. The airborne camera will automatically store images and videos in the memory card. You can control the Quadcopter through the Remote control, and can view flight video through mobile devices. Featuring simple and flexible operating procedures, AP10 Pro has stable and reliable performance, and can be used for amateur or commercial photography.

Remote control Device	Quadcopter External Components	Operating Modes	Quadcopter Internal Components
Remote control with 2 joysticks, multi-channel	Airborne Camera Power unit (motor & Propeller)	GPS mode Normal mode	Flight Control System Wi-Fi module Receiver ESC (Electronic Speed Control)

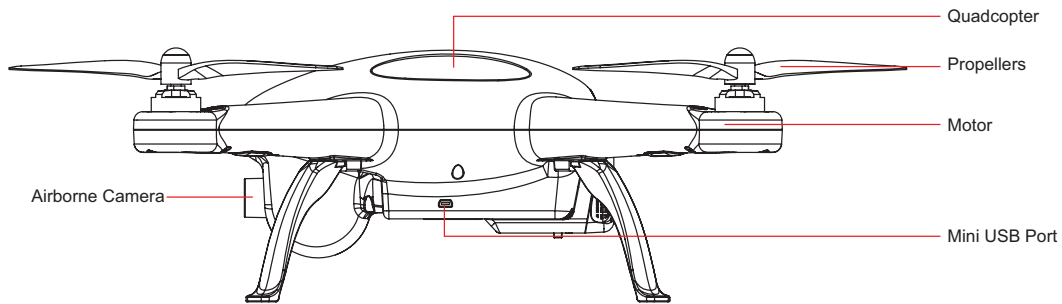


Figure 1

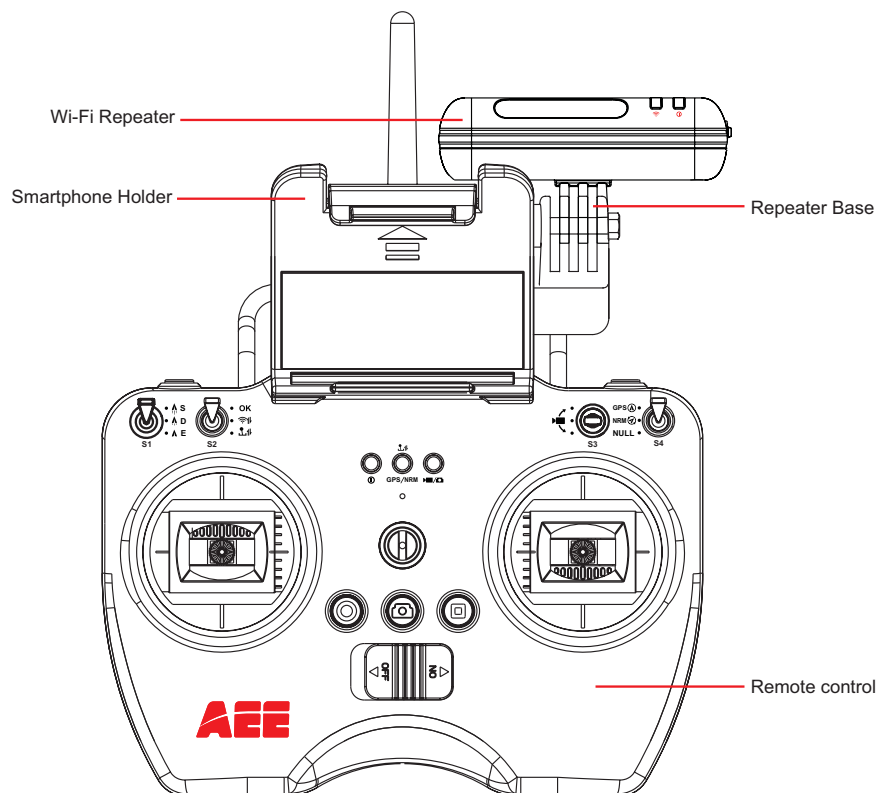


Figure 2

## Preparations before flight

Refer to the following for installing components and pre-flight quadcopter check.

### 1 Preparing Batteries

Ensure all device batteries are fully charged before operating AEE AP10 Pro.

Device	Power Supply
Remote control	Load 4 AA batteries for power supply
Wi-Fi Repeater	Wi-Fi Repeater should be charged through the inbuilt charging port (Mini USB port)
Quadcopter	Charge quadcopter batteries for power supply
Mobile devices	Please ensure that your mobile device is fully charged before using App

The following instructions are for the quadcopter battery.

#### 1.1 Quadcopter Battery Introduction

The quadcopter battery (Figure 3) is a specifically designed battery for AP10 Pro with charge and discharge management functions, with 5300mAh capacity and voltage of 11.1V. Only use the dedicated quadcopter battery charger (Figure 4) provided by AEE, for charging.

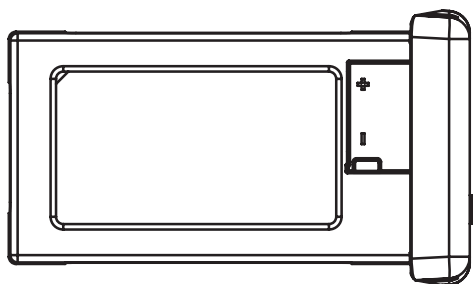


Figure 3

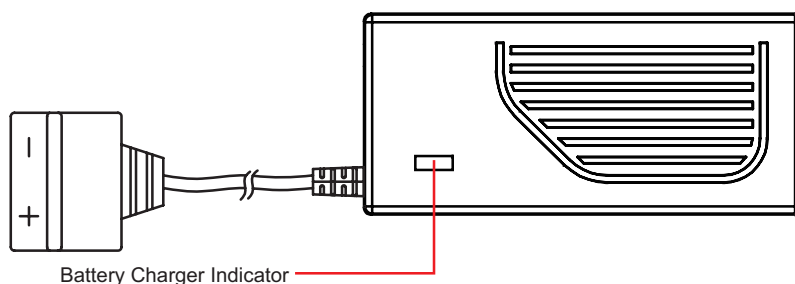


Figure 4

Short press the Battery Level Check button (Figure 5). Battery Level LCD Segment Display displays appropriate battery level. Please fully charge the battery if it is less than two bars.

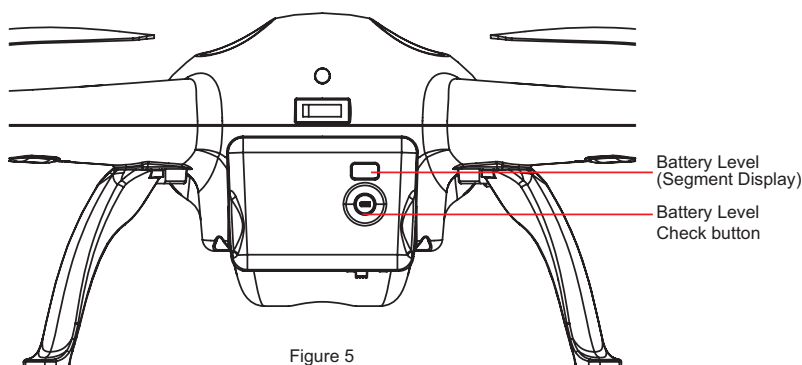


Figure 5

#### Battery Specifications

Type	Li-Po Battery
Capacity	5300mAh
Charging ambient temperature	0°C-50°C / 32~122°F
Discharging ambient temperature	-20°C-50°C / -4~122°F
Charge / discharge ambient relative humidity	< 80%

Please carefully read and strictly comply with this manual before use. Users take full responsibility for any problems caused due to failure to follow instructions.

#### 1.2 Charging the Quadcopter battery

- (1) Connect the charger to an AC power source (100-240V, 50 / 60Hz). Please use a power adapter, if necessary.
- (2) While charging, the battery charger indicator turns red.
- (3) When the battery charger indicator turns green, the battery is fully charged. Disconnect the charger and battery when charging is complete.

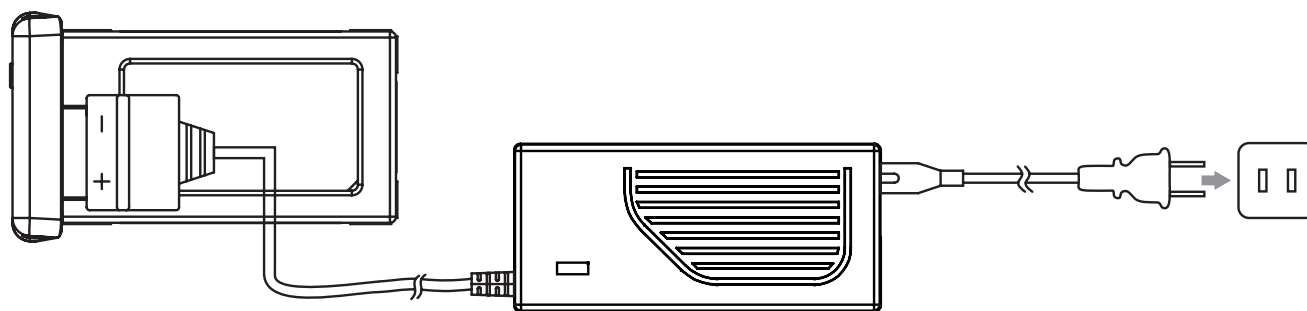


Figure 6

### 1.3 Quadcopter Battery Installation

Push the battery into the battery compartment in the correct direction (Figure 7). After the battery is properly installed, a "click" sound will be heard, indicating that the battery has been fastened.

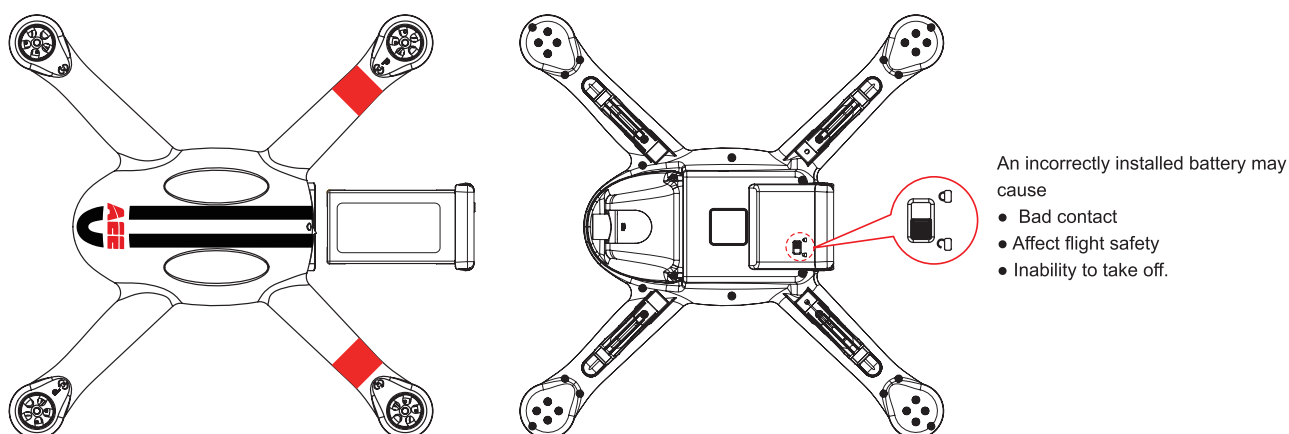


Figure 7

### 1.4 Caution

- (1) Do not directly pull out the battery when the Quadcopter is switched on as it may damage the power supply connector.
- (2) For long term storage, discharge the battery to 40%-50% power, and store in a specified battery box. Discharge/charge the battery once every three months to maintain battery life.
- (3) Replace the battery after it has been discharged over 300 times. Completely discharge a battery prior to disposal.
- (4) Replace the battery if your current battery swells up or is damaged in any way, to avoid fire and explosion.
- (5) Do not charge expanded or damaged batteries.
- (6) Please pay attention to the battery charging process in order to avoid accidents, and make sure there are no flammable or combustible materials around the battery and the charger.
- (7) Battery safety is extremely important. Please refer to Disclaimer for more precautions.

## 2 Preparing the Quadcopter

The quadcopter includes a built-in flight control system and an air borne camera that is convenient to use.

2.1 Introduction

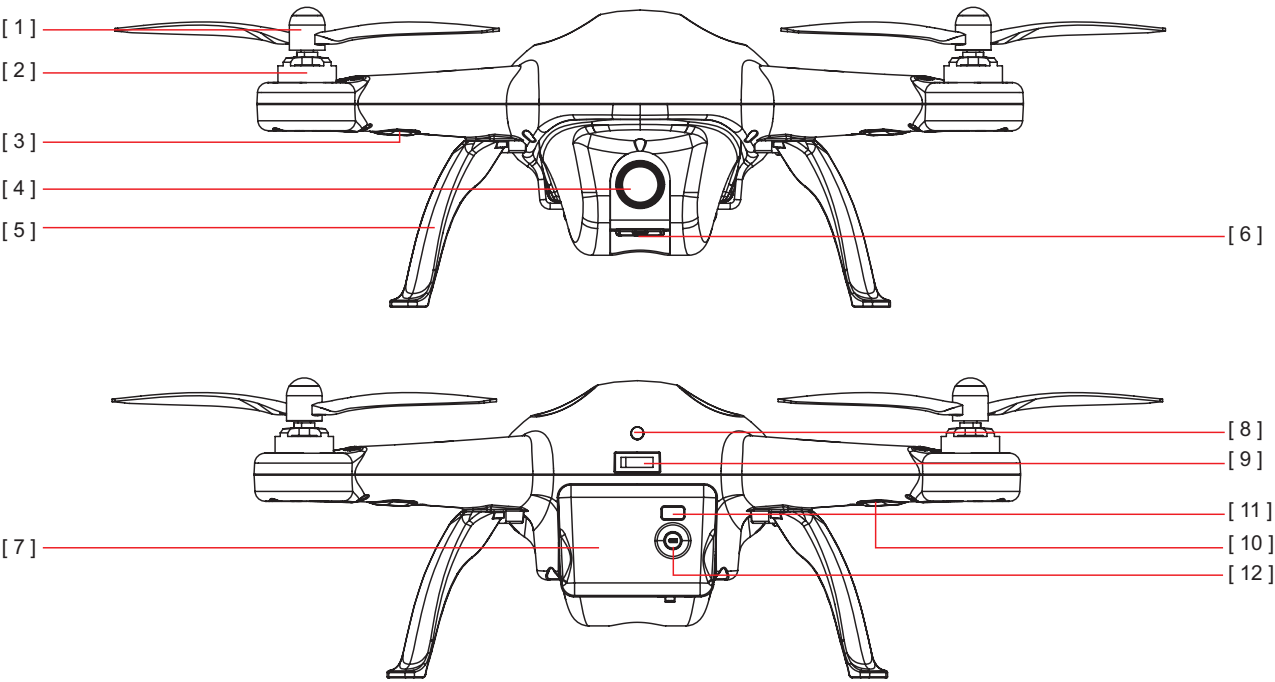


Figure 8

- [ 1 ] Propellers
- [ 2 ] Motor
- [ 3 ] Front Indicator
- [ 4 ] Camera Lens
- [ 5 ] Landing Gear
- [ 6 ] Micro SD Card Slot
- [ 7 ] Quadcopter Battery
- [ 8 ] Tail Indicator
- [ 9 ] Power switch
- [ 10 ] Rear Indicator
- [ 11 ] Battery Level LCD Segment Display
- [ 12 ] Battery Level Check button

2.2 Flight Control System

AEE AP10 Pro is equipped with AEE flight control system to provide incredible ease of use and stability. In addition to supporting basic flight maneuvers such as climb, descend, roll and pitch, it also supports failsafe protection, battery level alarms and other functions.

System Component Modules	Function
Master Controller	The core part of the flight control system controls all modules in a centralized way
GPS & Compass	Used for positioning and navigation
Indicator	Indicates current flight control system status. Used to navigate during night flight

2.3 Flight Indicator

There are three Flight Indicators, namely, the Front indicator, Rear indicator and Tail indicator. When the Quadcopter switch is turned on, the LED Flight Indicators will be on. The Front indicator is green and the Rear indicator is red. (Hereafter use Green/Red Indicator to describe Front/Rear indicators respectively).

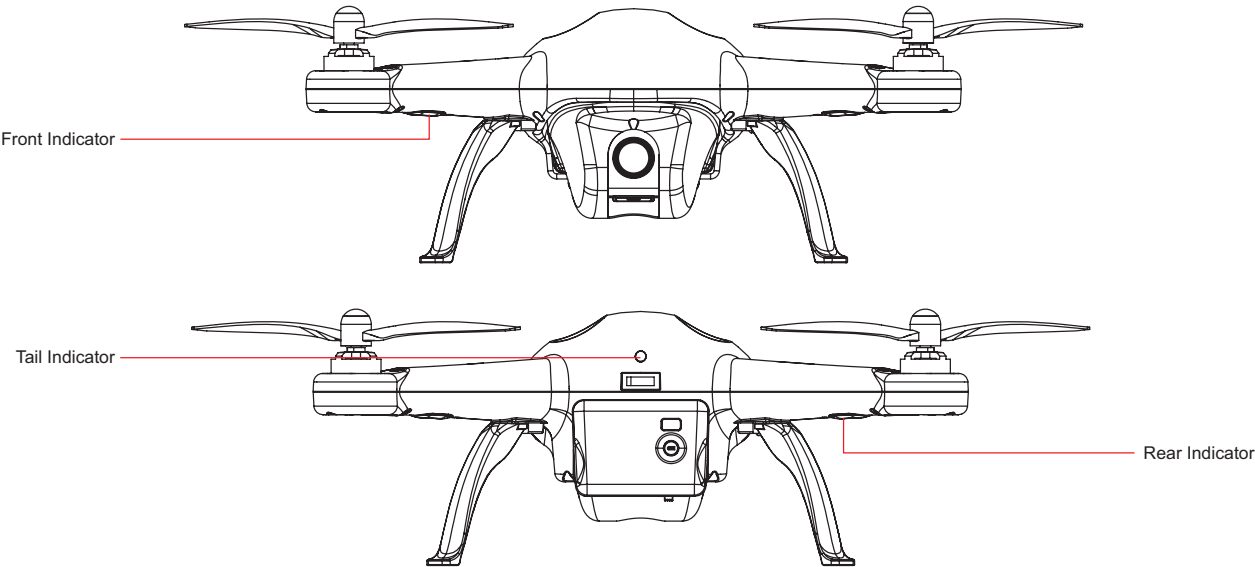


Figure 9

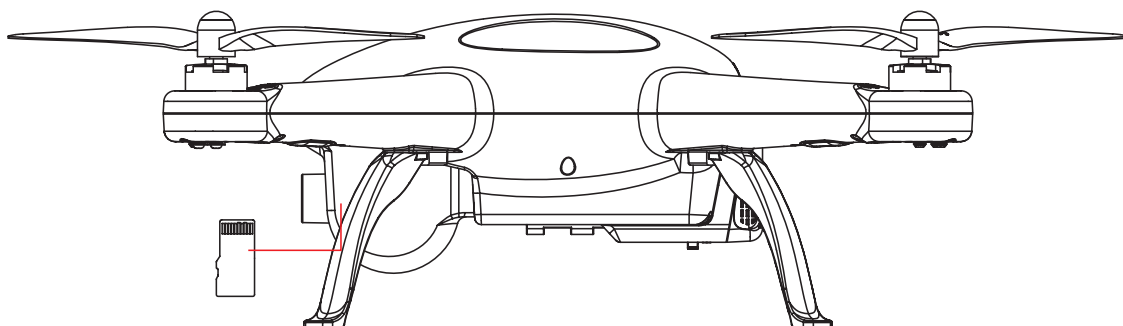
## AP10 Pro LED Flight Indicators

MODE	
MODE	Tail Indicator (green)
GPS normal	Remains ON
Searching GPS signal	Blinking slowly (blinking once within 2s)
WARNING & ERROR	
	Front Indicator (green)      Rear Indicator (red)
1 <sup>st</sup> Level low battery alarm	Slow Blink (1s ON, 1s OFF)      Slow Blink (1s ON, 1s OFF)
2 <sup>nd</sup> level low battery alarm	Blinking fast (blinking twice fast within 1s)      Blinking fast (blinking twice fast within 1s)
Compass abnormal	Blinking fast (blinking 3 times within 1s)      Remains ON
Accelerometer abnormal	Blinking fast (blinking 3 times within 1s)      Blinking fast (blinking 3 times within 1s)
Gyro abnormal	Remains ON      Blinking fast (blinking 3 times within 1s)
GPS Module abnormal	Remains ON      Blinking fast (blinking twice within 3s)
Barometer abnormal	Remains ON      Blinking slowly (blinking once within 2s)
COMPASS CALIBRATION INDICATOR	
	Front Indicator (green)      Rear Indicator (red)
Compass calibration entered	Blinking fast (blinking twice within 1s)      Remains ON
Compass calibration started	OFF      Remains ON
Compass calibration Successful	Remains ON      Remains ON
Compass calibration Failed	Blinking fast (blinking 3 times within 1s)      Remains ON
	1second      1second      1second      1second      1second      1second

- When abnormal status occurs, please refer to the solutions of Common Troubleshooting.

## 2.4 Micro SD Card Slot

Please insert the Micro SD card into the Micro SD Card Slot while the power is OFF, before shooting pictures or recording videos. AEE AP10 Pro Micro SD card supports maximum 64GB cards.



## 2.5 Airborne Camera

The AEE AP10 Pro camera's power is supplied by the quadcopter battery. You can take photos and record videos through the camera function button, or through Camera also can be set by App. The camera supports Single Shot and Fast Shot, with video capture resolution up to 1080P / 60fps (N system) 1080P / 50fps (P system) Full HD video.

Camera Specifications	
Resolution	Maximum 1080P / 60fps (N system) 1080P / 50fps (P system) 720P/120fps
Image Resolution	4608x3456
Video Formats	MP4 (H.264)
Storage	External Micro SD card, up to 64GB
TV system	P / N system optional

### 2.5.1 Camera Function Buttons

Photo shooting: Press the airborne photo shooting button on the remote control once to take one photo (the APP button can also be used to take photos).

Video-recording: Press the airborne video recording button on the remote control or the APP interface to control the airborne camera to start video recording. Press the stop video recording button on the remote control or the APP interface to stop video recording.

### 2.5.2 Copying Camera Data

Power off AP10 Pro before removing the Micro SD card from the card port, and connect it to a computer with a card reader to easily copy camera files. (Quadcopter power must be OFF while removing the Micro SD card).

### 2.5.3 Shooting Status Indicator

After startup of the quadcopter, the user can judge the current status of the quadcopter according to the status indicator. The status indicator is on the remote control, as shown in Figure 11, the three indicators from left to right are power indicator (red), status indicator (tri-color: red/green/blue), and Photo shooting & video recording indicator (green).

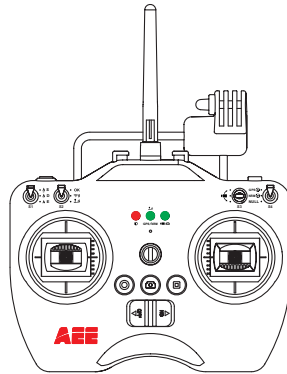


Figure 11

Indicators on the remote control			
Power indicator	Status indicator(tri-color light)	Photo shooting & video recording indicator	
Red light ●	Red light ● /green light ● / blue light ●	Green light ●	Function status
Remaining ON	N/A	N/A	Power on
Remaining ON	Red light remains ON	N/A	Abnormal condition, as signal loss etc.
Remaining ON	Blue light remains ON	N/A	Indicates that signal connection is normal and the quadcopter is in the GPS signal searching status.
Remaining ON	Green light remains ON	N/A	Indicates that signal connection is normal and GPS signal is good
Remaining ON	Blue light blinks	N/A	Indicates that the quadcopter is in the GPS signal searching status and in the auto fly mode (low-battery auto landing); now the remote control can regain control of the quadcopter via the S4 switch.
Remaining ON	Green light blinks	N/A	The first situation indicates that the GPS signal is good and the quadcopter is in the auto fly mode (1. auto landing, or 2. low-battery auto landing); now the remote control can regain control of the quadcopter via the S4 switch. The second situation indicates the joystick calibration status. During calibrating, the indicator blinks. When the green light will go out, the calibration completes successfully. If the calibration does not complete, the green indicator will continue blinking.
Remaining ON	N/A	Blinks once	Blinking once during Capture: one photo is taken
Remaining ON	N/A	Remaining ON	The camera is recording

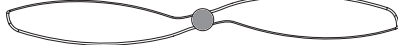



(1) When Remote control battery power is low, a warning alert sounds (di didi di didi...).

(2) When the remote control or the APP sends a command for video recording, the video recording indicator on the remote control will blink.

### 3 Preparing Propellers

AEE AP10 Pro adopts 10-inch propellers, with black and gray color propeller nuts. Propellers are consumable items. Please purchase these accessories separately, if necessary.

#### 3.1 Introduction

Propellers	Gray (1045)	Black (1045 P)
Diagram		
Assembly Location	Attach to the motor shaft without "P" mark	Attach to the motor shaft with "P" mark
Installation Location	 Lockup: Tighten propeller in this direction	
Symbol Description	 Unlock: Loosen propeller in this direction	

#### 3.2 Assembling Propellers

(As shown below) Prepare two propellers with gray nuts and two with black nuts. Attach propellers with gray nuts to motor shafts without "P" marks, and attach propellers with black nuts to motor shafts with "P" marks. Tighten propellers as per the appropriate locking direction.

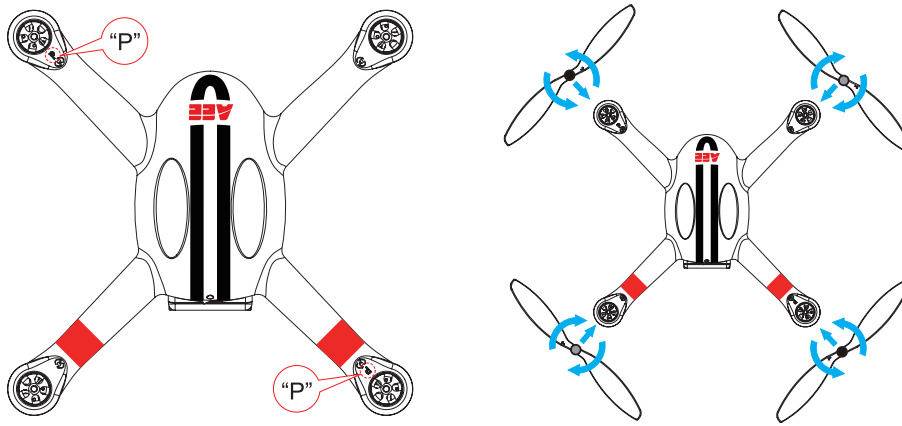


Figure 12

- (1) Propellers are designed to self-tighten during flight; therefore do not tighten them excessively. Do not use glue on the threads.
- (2) Ensure propellers are attached in the correct position. The quadcopter cannot fly properly if the propellers are installed incorrectly. Wear protective gloves while installing as propellers are very thin and may cause accidental scratches.

#### 3.3 Disassembling Propellers

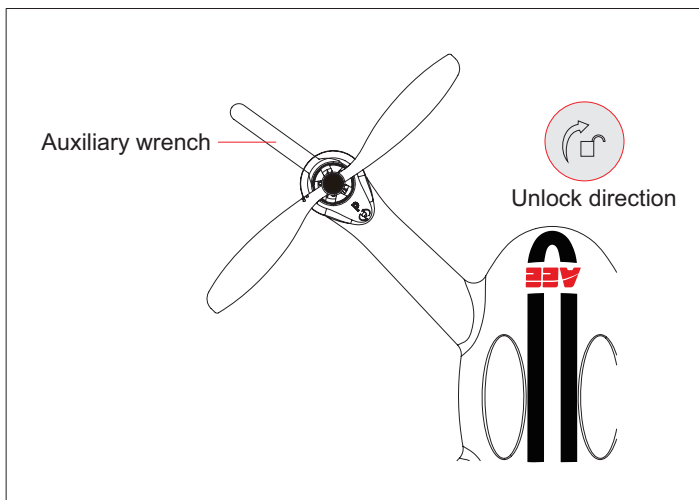



Figure 13

 As shown as in the Figure 13, prevent motor rotation by using the auxiliary wrench or your hand, then remove propeller by turning towards the unlock direction.

#### 3.4 Precautions

- (1) Check whether propellers and motors are installed correctly and firmly before every flight.
- (2) Ensure that all propellers are in good condition before each flight. Replace aged, chipped or broken propellers.
- (3) To avoid injury, stand clear of and do not touch propellers or motors when they are spinning.
- (4) Only use original AEE propellers for a better and safer flight experience.



**Warning :**

- (1) When installing the propellers, rotate the propellers strictly in the lock direction specified by the mark, and DO NOT apply too much force in order to avoid possible damage.
- (2) When removing the propellers, rotate the propellers strictly in the unlock direction specified by the mark, in order to avoid possible damage.

## 4 Preparing the Remote control

AEE AP10 Pro Remote control is paired with the Quadcopter receiver before delivery. The Remote control is set to U.S. mode by default.

- Control Mode: The Remote control is set to U.S. mode or Japanese mode based on joystick channel mapping.
- U.S. mode: The left joystick controls throttle.
- Japan mode: The right joystick controls throttle.
- Repeater mount is already installed on the Remote control before delivery. Please install the Smartphone Holder before installing a mobile device on the Remote control.
- Over sized mobile devices (such as iPad) are not recommended as they cannot be installed on the holder.

### 4.1 Introduction

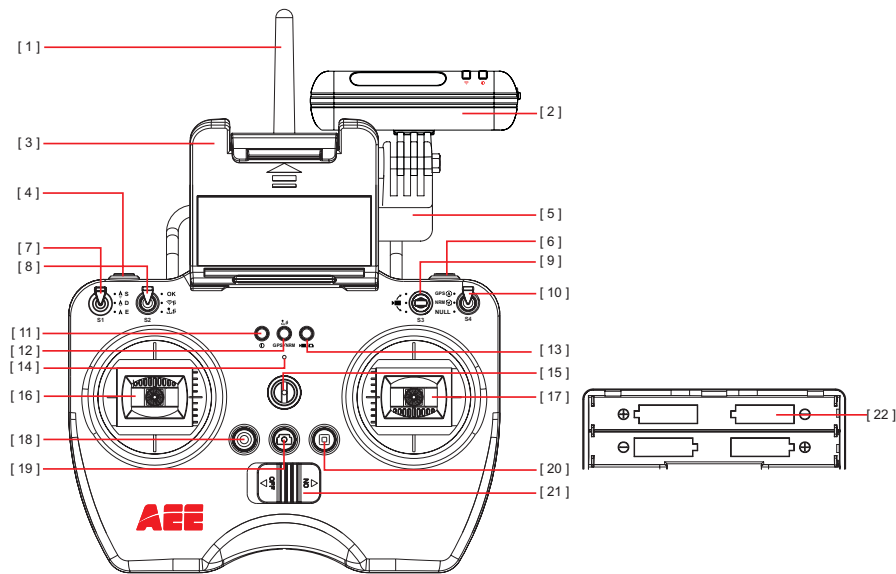


Figure 14

No.	Description	Specification Definition
1	Antenna	Remote control signal transmission
2	Wi-Fi Repeater	For extending Wi-Fi signal reception range
3	Smartphone Holder	For attaching mobile devices
4	Hook open/close button	Short press it once to open the hook on the quadcopter; press it again to close the hook (Remark: The hook is an optional accessory)
5	Repeater base	It is used to fix the repeater
6	Return button	Long press it for 3s to send a go-home command to the quadcopter
7	Speed switch S1	There are three speed modes; the speed decreases from up to down: 1. Sport mode <b>S</b> ; 2. Drive mode <b>D</b> ; 3. Economic mode <b>E</b> ;
8	Calibration switch S2	It is a 3-channel switch. 1. <b>OK</b> (joystick calibration is OK); 2.  (start pairing between quadcopter and repeater); 3.  (start the joystick calibration procedure)
9	Gimbal control switch S3	Diagram of PTZ motion control switch positions <ul style="list-style-type: none"> <li>↗ Lens turns upward (upper position)</li> <li>↖ Lens stops (middle position)</li> <li>↘ Lens turns downward (lower position)</li> </ul> When it is turned upward/downward, the lens direction changes slowly till the allowable maximum angle is reached
10	Flight mode switch S4	It is a 3-channel switch. 1. <b>GPS</b> : GPS mode; 2. <b>NRM</b> : NRM mode (normal mode); 3. <b>NULL</b> : NULL (reserved) Remark: When the quadcopter is in the auto fly mode (auto return, low-battery auto landing), at the time when the remote control signal is restored, switch between the GPS and NRM modes twice to end the auto fly mode and now the remote control can regain control of the quadcopter
11	Remote control power indicator	Red, indicating the remote control power ON/OFF status (red light remains on when the power is turned on, and blinks slowly in low-battery status)

12	Status indicator	Tri-color indicator It can indicate the GPS signal status and flight mode of the quadcopter, and also the joystick calibration status. Remark: For the sake of safety, the quadcopter should be turned off before joystick calibration
13	Photo Shooting & Video Recording Indicator	Green light blinks slowly:Video recording. Blinks once:When one photo is taken (single shot by Remote Control). Green light remaining on: Indicates Remote Control starting up successfully.
14	Buzzer hole	Warning tone
15	Strap hole	Used to hang the remote control
16	Left joystick	2 channels;"up-down" channel controls gas, "left-right" channel controls yaw.
17	Right joystick	2 channels;"up-down" channel controls roll, "left-right" channel controls pitch
18	Airborne video recording button	Short press it to send command to the quadcopter to start video recording
19	Airborne Shutter Button	Short press it to send command to the quadcopter to stop video recording
20	Video Stop Button	Short press it to send command to the quadcopter to take a photo
21	Remote control power switch	Slide it to the left position to power ON the remote control; slide it to the right position to power OFF the remote control
22	Battery compartment	It is where the battery is installed

## 4.2 Powering on the Remote control

- (1) Load four AA batteries into the battery compartment. Pay attention to positive and negative directions.
- (2) Set S1 and S2 switches to the upper-most position and place both joysticks at the mid-point.
- (3) Toggle power switch to ON position, to switch on the Remote control.
- (4) The power indicator remains ON in red color after the Remote control is powered on.
  - Ensure batteries of Remote Control have been fully charged before each use. If there is low voltage, the Remote control will prompt low power warning ( di didi di didi... )Please replace batteries immediately.
  - Be sure to remove batteries from remote control in case of long-term storage.
  - Remove depleted batteries and follow battery instructions for disposal or recycling.



**Warning:** Make sure not to touch the propellers when operating Remote control.

## 4.3 Antenna Orientation

Keep the remote control antenna pointing skyward, and ensure there are no obstacles between Remote control and receiver antennas, to ensure maximum remote control range during flight.

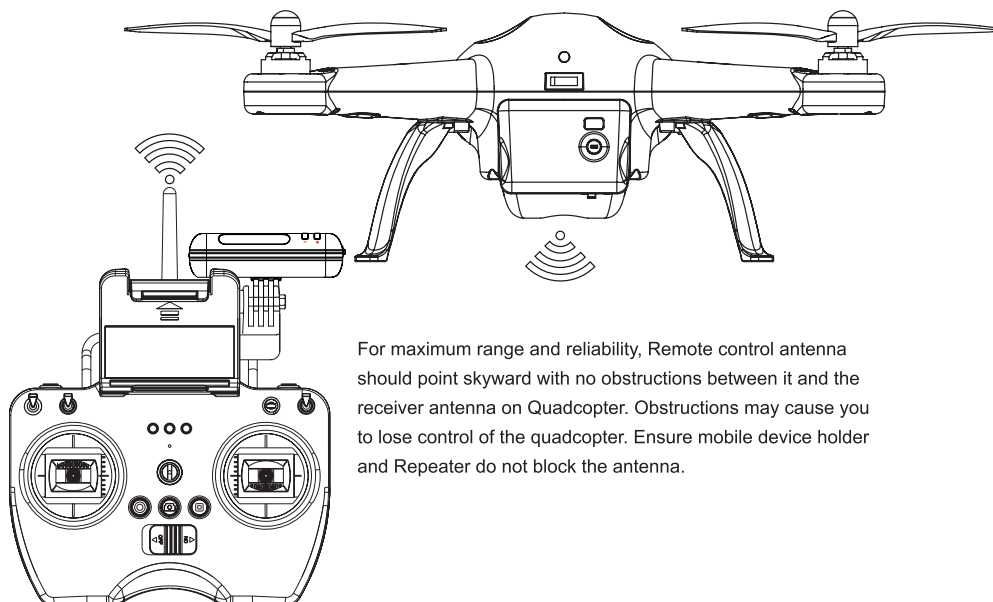


Figure 15

#### 4.4 Operating the Remote control

**Joystick at center / neutral:** Control joysticks of remote control are at the central position.

**Joystick deviation distance:** The distance the Remote control joystick deviates from its center position.

Remote control (U.S. Mode)	Quadcopter Direction(" " indicates nose direction)	Operation Details
		<p>Vertical movements on the left joystick control quadcopter elevation.</p> <p>Push the left joystick up to ascend and down to descend. When both joysticks are centered (neutral), the quadcopter will hover in place (height is automatically set).</p> <p>Push the left joystick upwards beyond the center (neutral) position to take off. (Push the left joystick slowly to prevent sudden and unexpected elevation).</p>
		<p>Horizontal movements on the left joystick, controls the rudder.</p> <p>Push left to rotate quadcopter counterclockwise and right for clockwise. If the joystick is centered, the quadcopter flies in the same direction without rotating.</p> <p>The joystick controls the quadcopter's rotating velocity. The more the joystick is moved the faster the quadcopter will rotate.</p>
		<p>Vertical movements on the right joystick, controls the quadcopter's forward &amp; backward pitch.</p> <p>Push up to fly forward and down to fly backward. The quadcopter will keep level and straight if the joystick is centered.</p> <p>Push the joystick further to increase pitch angle and faster flight velocity.</p>
		<p>Horizontal movements on the right joystick control left and right pitch.</p> <p>Push left to fly left and right to fly right. The quadcopter will keep level and straight if the joystick is centered.</p> <p>Push the joystick further to increase pitch angle and faster flight velocity.</p>
	 S2:OK Position-1 S2: 1 Position-2 S2: 2 Position-3	<p>The S2 switch is used for calibration of the joystick. Turn S2 to position 3, then turn on the remote control, and at this time the status indicator starts blinking (indicating joysticks calibration starts). Turn the left and right joysticks clockwise and counter-clockwise respectively at the maximum stroke for two circles, and then release the joysticks. (ensure that the joysticks stay at the maximum stroke throughout this process) Then, the status indicator in the middle will go out. Last, turn S2 to position 1, the photo shooting &amp; video recording indicator will come on (green). Now the calibration completes successfully.</p>
	 S4:GPS Position-1 S4:NRM Position-2 S4:NULL Position-3	<p>S4 switch is the flight mode toggle switch. Position 1 (GPS) is GPS mode, Position 2 (NRM) is Normal mode, Position 3 (NULL) is Reserved function.</p>

- In GPS mode, when all joysticks are in the neutral position, the quadcopter hovers at a fixed-point.
- In Normal mode, when all joysticks are in the neutral position, the quadcopter remains level, but may drift in a horizontal direction.
- When S4 switch to GPS Mode, the motor can not be turned on until GPS is ready (the tail light remains on).

## 4.5 Frequency Pairing between Remote control and Quadcopter.

The Remote control and receiver are paired before delivery. Normally, you can skip this procedure and directly use the quadcopter. However, if you change the Remote control or Receiver, frequency-pairing is required.

### Frequency Pairing Procedures

- (1) Important: Be sure to remove propellers before pairing to avoid accidental injury.
- (2) When the remote control is turned off, power on the quadcopter. Now the arm lights and the quadcopter tail light come on. When a "beep" sound is heard, turn on the remote control; the remote control power indicator (red) will come on. When the "status indicator" on the remote control changes from red to blue, it indicates pairing is successful.
- (3) If the "status indicator" on the remote control does not change from red to blue (i.e. remains in red), repeat step (2) until the pairing is successful.

## 5 Preparing the Repeater

AEE AP10 Pro Wi-Fi Repeater is a wireless communication device that operates within the 2.4 GHz frequency band. It is used to extend the communication distance between the mobile device and Quadcopter. Communication distance is affected by the surrounding environment, such as blockages due to trees, signal reflection by buildings, interference by other same frequency bands, etc., affecting effective communication distance. Before every flight, ensure the Wi-Fi Repeater works properly, otherwise communication issues between the mobile device and Quadcopter may occur.

### 5.1 Introduction

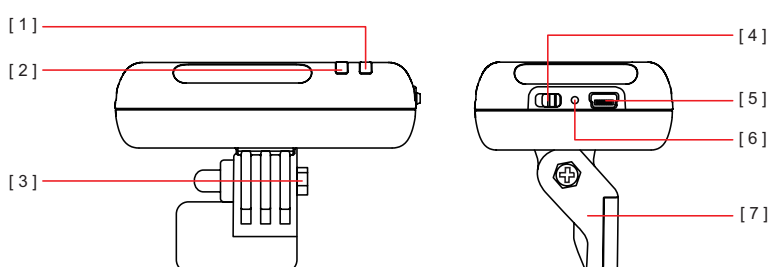


Figure 16

- |                                     |                       |                     |                    |
|-------------------------------------|-----------------------|---------------------|--------------------|
| [ 1 ] Power Indicator               | [ 2 ] Wi-Fi Indicator | [ 3 ] Lock screw    | [ 4 ] Power Switch |
| [ 5 ] Charging Port (Mini USB port) | [ 6 ] Pairing Button  | [ 7 ] Repeater Base |                    |

#### 5.1.1 Wi-Fi Indicator

Indicates Repeater's Wi-Fi status

Wi-Fi Indicator	Description
Blue light is ON	Wi-Fi Repeater is working properly
Blue light blinks fast (1.5s OFF, 0.3s ON)	Wi-Fi Repeater is pairing with airborne Camera
Blue light blinks slowly (3s OFF, 0.3s ON)	Wi-Fi Repeater is successfully paired

#### 5.1.2 Power Indicator

Indicates Repeater's power supply status.

Power Indicator	Description
Red light is ON	Repeater power supply is normal or charging completes
Red light blinks	Repeater is charging, or Repeater power is running out, please charge as soon as possible

#### 5.1.3 Pairing Button

When the repeater is on, press and hold the Pairing Button for 3 seconds, the repeater will automatically restart for code re-pairing. Press and release the Pairing button to check repeater's power level.

Press Pairing button	Press Pairing button once: If Power Indicator blinks once, indicates that repeater has over 80% charge available If Power Indicator blinks twice, indicates that repeater has over 50% charge available If Power Indicator blinks three times, indicates that repeater is running out of Power
Long press Pairing button (3 seconds)	Repeater restarts and you can re-pair codes

#### 5.1.4 Code Pairing

The Camera and repeater have undergone pairing before delivery, so it is unnecessary to carry out pairing again. If the Wi-Fi indicator fast blinks blue (1.5 seconds OFF, 0.3 seconds ON), or keeps ON, please re-pair with following steps:

- (1) Switch on the remote control Power switch, Quadcopter Power switch and repeater Power switch respectively.
- (2) When Wi-Fi repeater's blue light indicator is on, the repeater is working normally. Toggle S2 switch on the remote control to the center position then toggle back to "OK". Now the camera enters pairing waiting status.
- (3) Press the repeater pairing button for 3s. The Code pairing begins. When the Wi-Fi repeater blue light indicator slow blinks (0.3s on, 3s off). This indicates the repeater has been paired. paired with the airborne Camera. If pairing fails, please repeat procedures 2 and 3.

## 5.2 How to use

### Charging the Repeater

Connect the repeater to the repeater Adapter through the Mini USB port. It takes about 2 hours to fully charge the battery.

- Ensure the repeater has sufficient charge before each flight.

### Switching on the Repeater

- (1) Toggle Repeater power switch to ON.
  - (2) Wait until the Wi-Fi indicator blinks blue, indicating the Repeater is communicating properly.
  - (3) While using, ensure the Repeater's LED side faces you, and ensure that visibility between the Repeater and quadcopter is unobstructed, to obtain maximum communication distance.
- After the flight, in addition to switching off the quadcopter and remote control, remember to switch off the Repeater, or else the Repeater's battery will be depleted.

## 6 Downloading and Installing App

### Download AEE App (iOS / Android)



You can also search the latest App from AEE's official website.

### Scan QR Code above

Download the AEE AP+ App to watch live video when using AP10 Pro, through the following method. For iOS users, please search "AEE AP+" in the App Store, download and install the App on your mobile device. For Android users, please search "AEE AP+ " in the Google Play.



AEE AP+



iOS 6.1 or above



Android 4.0 or above

### Compatible Mobile Devices

iOS (system version iOS6.1 or above): Applicable for iPhone 4s, iPhone 5, iPhone 5s, iPhone 5c, iPod Touch 4 and iPod Touch 5. iPad 3, iPad 4, iPad mini and iPad Air can also be used.

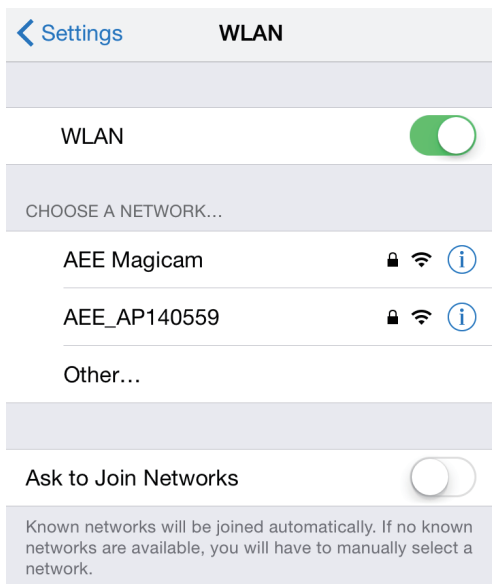
Android (Systemversion 4.0 or above), Applicable for mainstream models can be used.

- AEE will provide updates on future support for more types of mobile devices.

## 7 Connecting the Camera

### Follow the below procedures to connect the camera and the mobile device:

- (1) Power on the Remote control and Wi-Fi Repeater.
  - (2) Power on AEE AP10 Pro.
  - (3) Enable Wi-Fi on your mobile device. Wait for Approximately 30 seconds, and select "AEE\_AP\*\*\*\*\*" from the Wi-Fi network list.
- Please make sure that the mobile device close to the Wi-Fi repeater in order to get better performance of video transmission.



Select this network and enter the password "AEE12345" to join the network.

Figure 17

## 8 Using AEE AP+ App

AEE AP+ is mainly used for remote control of the camera. It can achieve photo shooting, video recording and camera parameter setting, as well as display of flight parameters.

### 1.Main Menu

After opening the APP, you can view the current condition of Wi-Fi connection and the major functions:



Figure 18

Icon	Name	Description
	Camera	Showing the Wi-Fi connection status If Wi-Fi connection is already successful, click it to access the main interface for shooting
	Album	Click it to access the album interface
	Settings	Click it to access the APP setting interface
	Website	Connect to AEE's official website



Connection successful



Connection failed



Notice: When using the camera interface and the album, the mobile device should be first connected to the Wi-Fi network of the quadcopter.

- If the mobile device has an incoming call during flight, the preview image on the mobile device will be covered by call interface. In order not to endanger the flight safety due to distraction, you are suggested not to answer any call during flight.



## 2.Main Shooting Interface

If Wi-Fi connection is already successful, click "  " to show the following main shooting interface on the smart device.

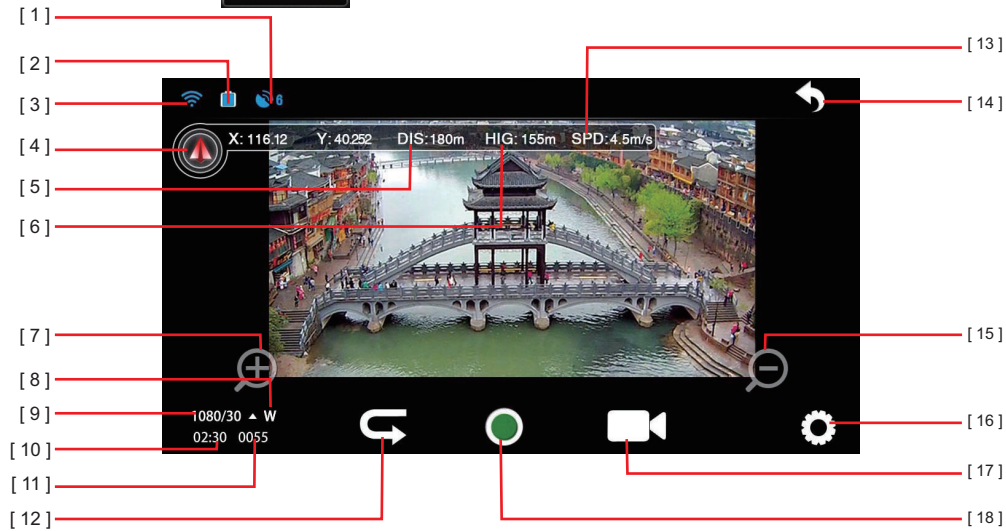



Figure 19

No.	Function	Description
[ 1 ]	Number of GPS satellites searched	 Indicates that currently the positioning signals of 6 satellites have been received
[ 2 ]	Quadcopter battery level	There are totally four bars used to indicate in a real-time manner the remaining battery level of the quadcopter; 1 bar indicates 25% of the battery life is left; 2 bars indicate 50% left; 3 bars indicate 75% left; 4 bars indicate battery is full. The level status changes with the flight.
[ 3 ]	Wi-Fi signal intensity	Shows in a real-time manner the intensity of Wi-Fi signal of mobile device. more bars indicate stronger Wi-Fi signal
[ 4 ]	Flight parameter icon	After clicking it, the interface will display the flight parameters: distance, altitude and speed, as shown in the figure below; after clicking it again, the flight info bar will be closed
[ 5 ]	Distance between quadcopter and home point	Shows the horizontal distance between the quadcopter and the home point
[ 6 ]	Flight height of quadcopter	Shows the vertical distance between the quadcopter and the home point
[ 7 ]	Zoom in button	Click it once to zoom in once; maximum 4x zooming is supported
[ 8 ]	View angle indication	W indicates wide (W) view angle is adopted
[ 9 ]	Video recording resolution	In video recording mode: Indicates the video recording resolution is 1080/30fps Click the triangle drop-down button to expand the available resolution options In photo shooting mode: Indicates the photo shooting resolution is 12M pixels Click the triangle drop-down button to expand the available resolution options
[ 10 ]	Remaining video recording time	In video recording mode, this number indicates <b>02:30</b> that the Micro-SD card allows another 2.5h of recording under the current camera settings In photo shooting mode, this number indicates that the Micro-SD card allows another quantity of photos to be taken under the current resolution setting
[ 11 ]	Number of video files / photo files saved	Number of video files saved: The number of files shown varies with different modes (video recording, photo shooting) In recording mode: <b>0055</b> indicates that 55 video files have been recorded by the camera In photo shooting mode: this number indicates 55 photos have been taken by the camera.
[ 12 ]	Playback button	Click it to access the album interface
[ 13 ]	Current flight speed of quadcopter	Shows in a real-time manner the current horizontal flight speed of the quadcopter
[ 14 ]	Return button	Return to the previous level
[ 15 ]	Zoom out button	Click it once to zoom out once; maximum 4x zooming is supported
[ 16 ]	Camera setting button	Click it to access the camera setting interface; see the “ Camera Settings ” section for details
[ 17 ]	Camera function selection button	Click the icon to expand the camera function options
[ 18 ]	Camera function operation button	This button can be operated to achieve different functions in different shooting modes

## Flight

After installation, please conduct flight training (for example: Flight simulator training or professional training). Ensure that all flights are carried out in a suitable environment.

### Flight Environment Requirements

- (1) Do not use the quadcopter in severe weather conditions, such as strong winds (category 4 and above), snow, rain and fog.
- (2) Fly in an open area without tall buildings. Presence of large number of steel buildings in the area will affect the onboard compass.
- (3) Keep AP10 Pro away from obstacles, people, power lines, trees, shelters, surface of the water, etc., during flight.
- (4) Reduce the chance of electromagnetic interference by not flying in areas with high levels of electromagnetism (such as near mobile phone base stations or towers).
- (5) This product cannot be used in The Antarctic Circle and The Arctic Circle.
- (6) Do not fly the quadcopter within restricted or no-fly zones, and abide by local laws or regulations.

### Pre-flight Check:

- (1) Ensure Remote control, Quadcopter, Wi-Fi Repeater and mobile device are fully charged.
- (2) Ensure propellers are correctly assembled.
- (3) Ensure the Micro SD card is properly loaded before photo capture and video recording.
- (4) Ensure the Quadcopter, Remote control and other equipment are working properly after powering on.
- (5) Check if motors start properly after the quadcopter is switched on. At this time, disassembling propellers is recommended for safety.
- (6) Check if the App is properly connected to the camera.



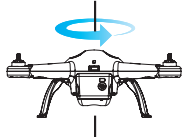

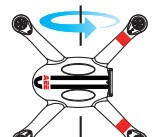
## 1 Compass Calibration

Compass calibration is required before first time use otherwise the system may not work properly, affecting flight safety. The compass is sensitive to electromagnetic interference from other electronic devices, which can cause abnormal compass data leading to poor flight performance or even flight failure. Regular calibration is required for optimum performance.


- Do not calibrate the compass in a strong magnetic field.
- Do not carry ferromagnetic material, such as keys, cell phones, etc., while calibrating the compass.

### 1.1 Calibration Procedures

Choose an open space to conduct calibration. Start the Remote control and quadcopter and ensure they work properly. Follow the below procedures to calibrate the compass:

1	2	3	4	5
 <p>GPS NRM NULL S4</p>				
<p>After the quadcopter powers on (about 20 seconds), Switch S4 for more than 5 times between GPS and NULL mode. The quadcopter will enter calibration standby mode (the tail light blinks fast).</p>	<p>Toggle the joysticks to the position as in the follow figure. Front indicator (green) starts blinking, Then release the joysticks. Compass calibration command has been sent successfully.</p>	<p>Rotate Quadcopter 360° horizontally (2 turns)</p>	<p>Rotate Quadcopter 360° vertically 2 turns (Nose down)</p>	<p>Rotate Quadcopter vertically (Nose leftward) until green lights off, Put Quadcopter on the ground. Green lights up normally after light off → calibration successful; Green lights blink fast after light off → calibration failed → Recalibrate</p>

### Warning

 Be sure to remove propellers before calibration, to avoid accidental injury or loss.

### 1.2 When to Recalibrate

- (1) When compass data is abnormal, front indicator (green) blinks fast.
- (2) The flight location is far from the place where last compass calibration was conducted.
- (3) There are changes in quadcopter's physical structure.
- (4) The quadcopter drifts a lot while flying, such as it flies along a circle when hovering.



## 2 Starting / Stopping the Motor

### 2.1 Starting the motor

Toggle the joysticks as shown in the illustration (Combination joystick Command [CSC]) to start the motor. Release the joysticks simultaneously after the motors start, then the camera will start to record video automatically.

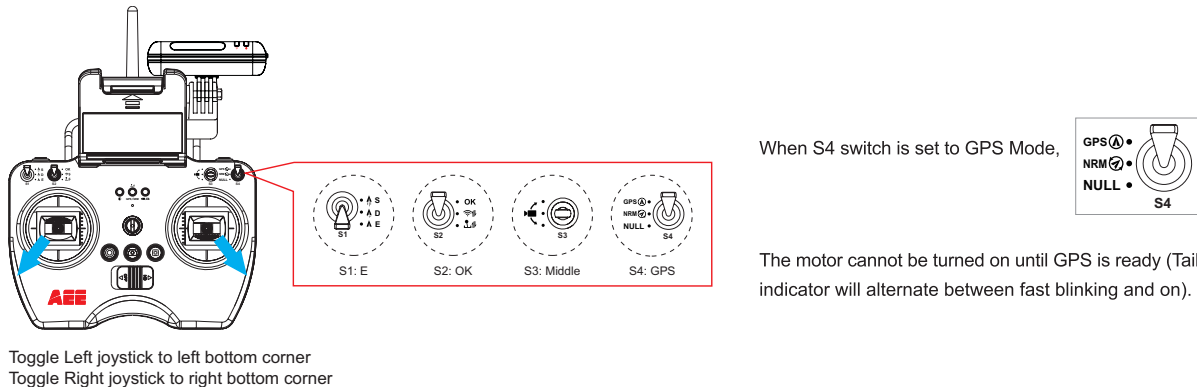


Figure 20

### 2.2 Stopping the Motors

There are two ways to stop the motors.

**Method One (Figure 21):** After the quadcopter lands, toggle the throttle joystick to the lowest position and then perform CSC, the motors will immediately stop. Release both joysticks after the motors stop.

**Method 2 (Figure 22):** After the quadcopter lands, toggle the left joystick to the lowest position and hold for 3 seconds to stop the motor.

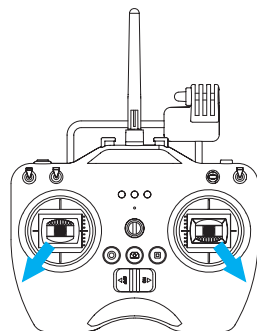


Figure 21

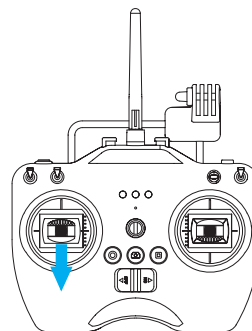


Figure 22

- Do not execute CSC during normal flight. This will stop the motors and cause the quadcopter to drop without control.
- Camera will stop recording automatically after motor stopped.
- Toggle the joysticks quickly and accurately when performing CSC. Release the joysticks simultaneously after the motors starts or stops.
- Shutdown remote control must be after the quadcopter power off. Otherwise, the quadcopter will enter the return mode, then may case the high-speed rotation of the propeller.

## 3 Basic Flight

### 3.1 Basic Flight Procedures

- (1) Place AP10 Pro on a flat and open ground, and ensure Tail Indicator faces you.
  - (2) Power on the Remote control, Wi-Fi Repeater and Quadcopter one after the other.
  - (3) Launch App, connect the mobile device and AP10 Pro, and navigate to the Camera Preview interface.
  - (4) Start the motors until the GPS signal is strong enough (the Tail indicator remains on and Status Indicator is green.) at GPS mode. Or, start the motors when the status indicator on Remote control is blue at NRM mode.
  - (5) Push the left joystick up slowly for a smooth take-off. Please refer to Remote control operation instructions for detailed operation procedures.
  - (6) Use the App to capture photos and record videos, and enjoy the flight. Please refer to Using App for more details.
  - (7) To land, gently pull down the left joystick to make the quadcopter descend slowly to the ground.
  - (8) After landing, execute CSC or pull the left joystick to the lowest position and hold for more than 3 seconds until the motors stop.
  - (9) After motors stop, power off Quadcopter, Wi-Fi Repeater and the Remote control one after the other.
- During flight if all 4 arm indicators slow blink or fast blink, it indicates the quadcopter has entered a low battery state. Please refer to Low Battery Level Alarm Function for details.
  - CAMERA RECORDING: It takes approximately 60 seconds after the quadcopter is powered on for the on-board camera recording function to activate; DO NOT move the camera manually in any case OTHERWISE it will cause the camera to be abnormal. The movement of camera can be controlled only by the Remote Control.

### 3.2 Aerial Photography Tips and Tricks

- (1) Perform pre-flight checks.
- (2) Capture photos and record videos during safe flight status.
- (3) Capture photos and record videos in sunny weather with little wind.
- (4) Set camera settings as per shooting requirements, such as video resolution, picture size, etc.
- (5) Carry out a trial flight before actual flight to help plan the route and frame your photos and videos.
- (6) Push the joystick as slowly as possible during flight to ensure the quadcopter flies smoothly.

## 4 Failsafe Protections

If the Quadcopter loses connection with the Remote control (i.e., you lose control), the Failsafe mode kicks in and the Automatic Flight Control system will control the Quadcopter, fly it back to the Home Point and land it safely. This reduces chances of losing or crashing the Quadcopter in case the Remote control signal is lost.

- Home Point: Indicates the Quadcopter's position when the Quadcopter successfully scans the GPS signal.

### 4.1 Scenarios when Quadcopter enters Failsafe mode

- (1) When Remote control is powered off.
- (2) The Quadcopter has flown beyond the effective range of the Remote control signal.
- (3) There is interference causing a signal problem with the Remote control.

### 4.2 Failsafe Procedure

In case you lose control of the Quadcopter during flight, the Quadcopter will automatically follow the below operating procedures:

- (1) The Quadcopter automatically slows down and hovers in one location.
  - (2) If the Quadcopter regains signal from the remote control within 2 seconds, flight control returns to normal mode, and the Quadcopter will not enter Failsafe mode and will not automatically fly back to the Home Point.
  - (3) If the Quadcopter does not regain signal from the remote control within 2 seconds, the Quadcopter enters Failsafe mode, and initiates automatic flight control to fly back to the Home Point. The Quadcopter will now continue to hover for 15 seconds and evaluate vertical Distance to the Home Point. If the distance is more than 25 meters, the Quadcopter will commence to fly back to the Home Point. If the Distance is less than 25 meters, the Quadcopter will fly up vertically to 25 meters higher than the Home Point, and then commence to return. When the Quadcopter reaches the Home Point it will hover for 5 seconds and then automatically land.
- To ensure the Quadcopter successfully flies back to the Home Point when it is in Failsafe mode, please take-off only after the Quadcopter successfully scans the GPS signal.
  - The Quadcopter cannot automatically avoid obstacles in its path when it is flying in Failsafe mode.

### 4.3 How to regain control during Failsafe Procedures

When the Quadcopter is out of control, toggle the S4 switch on the remote control several times to switch flight mode. Once the signal is restored, the remote control will regain control, and you can continue to use the remote control to operate the Quadcopter.

## 5 Low Battery Level Alarm Function

When quadcopter battery power is low, you must land as soon as possible, or else the quadcopter may lose power completely and crash, damaging the quadcopter or creating a dangerous situation. In order to prevent danger caused by low battery, AP10 Pro defines Level 1 low voltage alarm (battery level under 50%) and Level 2 low voltage alarm (battery level under 20%), and sends alarms with indicators on the quadcopter and on the Remote control .

Battery Alarm	Flight indicator light status	Low Power risk prompt
Low Power alarm	4 arm indicators Slow Blink (blinks on and off in 1s intervals)	In level 1 alarm condition, Quadcopter flies normally for few minutes and then initiates Level 2 alarm. Be cautious while flying, keep the Quadcopter within sight and do not to fly too high or too far.
Severe Low Power alarm	4 arm indicators Fast Blink (blinks twice within 1s)	In level 2 alarm condition, Quadcopter flies normally for few minutes and then initiates Failsafe mode and commences to automatically land. Under such a situation, please return and land the Quadcopter as safely as possible, and do not push the throttle hard or make big movements during flight.

During low-Power automatic landing, you can regain control of the Quadcopter by switching the flight mode switch S4. However, do not do so repeatedly, as it may:

- (1) Reduce battery service life due to over discharge.
- (2) Quadcopter may crash due to insufficient Power.

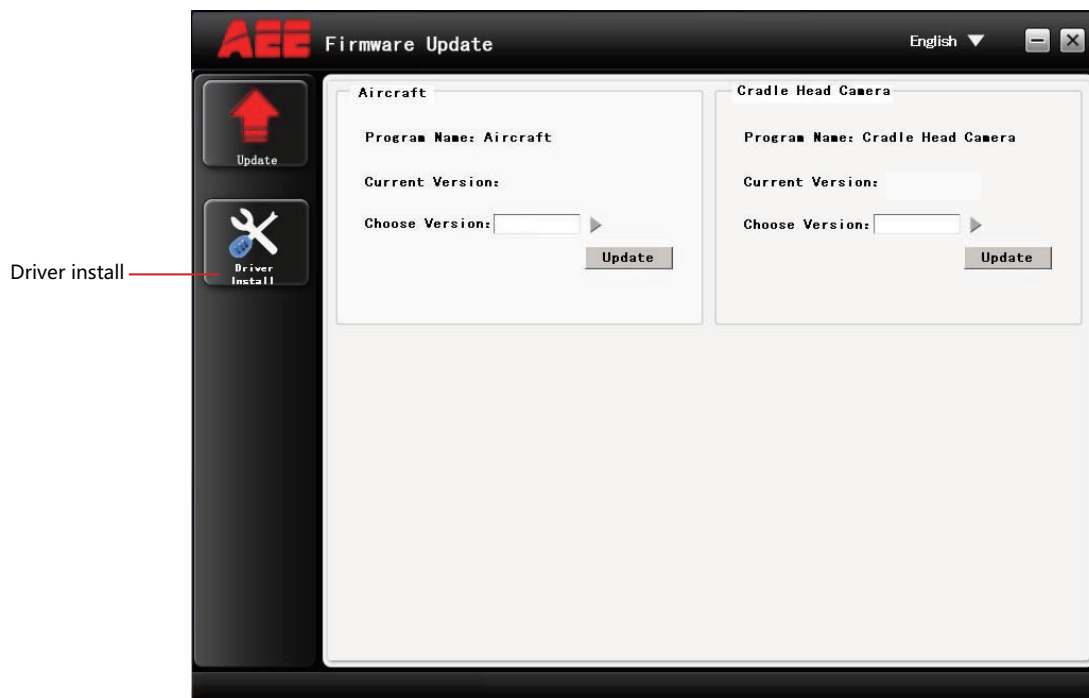
## Software Upgrade Interfaces on PC

### 1. Software Installation

Click the icon  to install the software, Follow the prompts to complete the installation.

### 2. Driver Installation

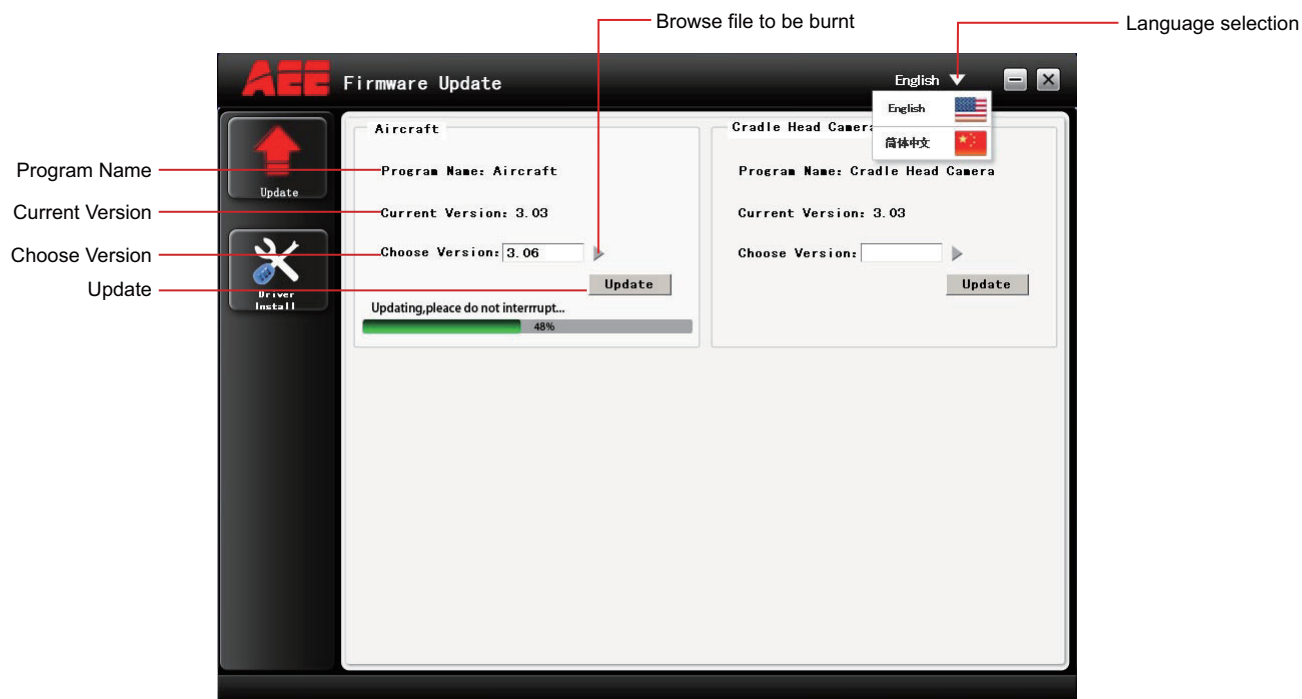
(1) Double click the  icon to open the software.



(2) The driver should be installed for initial use. When driver installation is finished, the dialog box reading "Driver successfully installed" will pop up (see the figure below). Click "OK" to finish the installation.



### 3. Interface Explanation



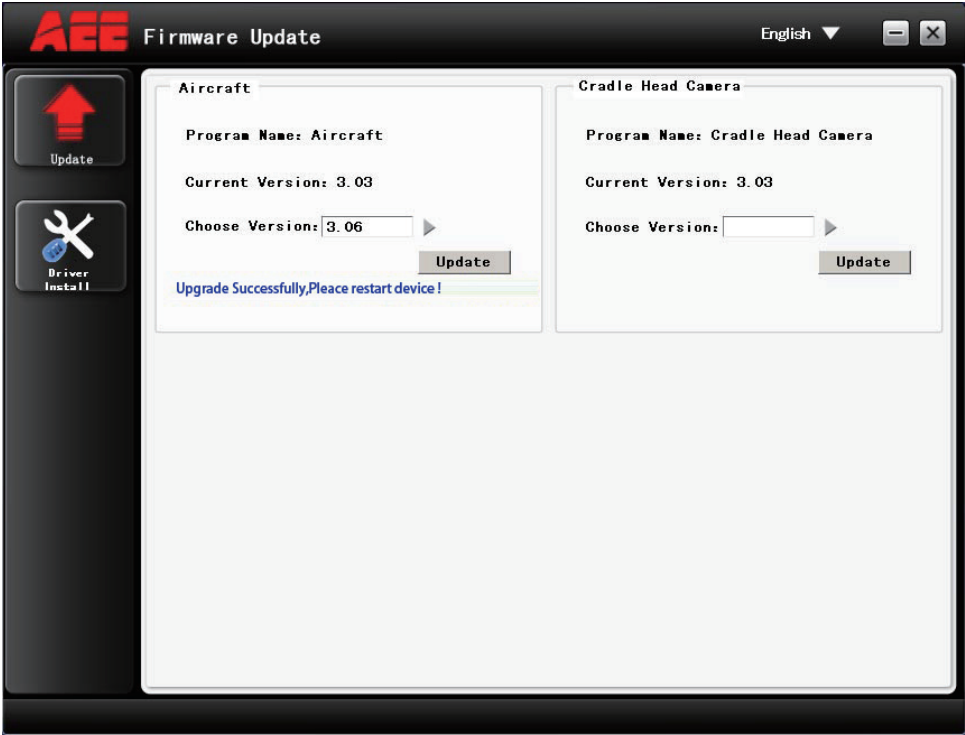
The interface of the software upgrade interface on PC is very simple. It is mainly divided into two areas: main control program burning area, PTZ program burning area.

### 4. Upgrade Steps

- (1) Open the software.
- (2) Connect the device (e.g., AP10) to the PC via the data cable; now the information of the connected PC serial port will be displayed.  
Remark: After the device is connected, the device will enter the upgrade status.
- (3) Click the "Browse file to be burnt" button to select the file to be burnt; then click "Upgrade". Now the software starts auto upgrade and shows the upgrade progress bar.



(4) After the file is updated successfully, please wait for a moment. The software will display a prompt indicating successful upgrade and remind the user to restart the device. Now the whole upgrade process is completed.



Appendix

1 Description of Common Indicators

Normal State	
Front and Rear Indicators remain ON; Tail Indicator remains on.	The GPS signal is strong enough.
Front and Rear indicators remain ON, Tail Indicator Slow Blinks	Searching for GPS signals
Warnings and Abnormal State	
Front and Rear Indicators Slow Blinks	Low Power alarm (first-level low power alarm)
Front and Rear Indicators Fast Blink	Severe Low Power alarm (second-level low power alarm)

Above indicator descriptions refer to common LED indicator states. For specific details, please refer to “Prepare the Quadcopter” in section 2.3 Flight Indicators.

## 2 Specifications


Quadcopter	
Battery	5300mAh LiPo
Weight	1.4kg / 3.09lbs
Hovering Accuracy	Horizontal: $\pm 2.5\text{m}$ / 8.2ft , Vertical: $\pm 0.8\text{m}$ /2.62ft
Maximum Tilt Angle	30°
Maximum Climb / Descent Speed	Climb: 6 m/s (19.69ft/s); Descend: 4 m/s (13.12ft/s)
Maximum Flight Speed	20m/s(65.62ft/s)(Not recommended)
Diagonal Length	450mm / 1.48ft
Flight Time	20min
Camera	
Sensor Size	1 / 2.3
Effective Pixels	16 Megapixels (MP)
Resolution	4608x3456
HD Video Recording	Maximum 1080P / 60fps (N system), 1080P / 50fps (P system), 720P/120fps
Remote control	
Data Transfer Distance	$\leq 700\text{m}$ (2296ft)
Working Hours	20h
Operating Current / Voltage	150mA / 6V
Battery	4 AA Batteries
Wi-Fi Repeater	
Operating Frequency	2.4GHz
Communication Distance (open outdoors)	$\leq 500\text{m}$ (1640ft)
Transmitting Power	$\leq 17\text{dBm}$
Power Consumption	1.5W


## 3 Common Troubleshooting

### 3.1 Solution for remote control joysticks center (neutral) position errors

When there is a big error in neutral position of remote control joysticks, the motors cannot start when performing CSC. Errors in Remote control joysticks neutral position usually occur in two cases:

1. When quadcopter is ON and the joystick (except throttle) is not in neutral position-Solution: Move all Remote control joysticks to neutral position, and re-start the quadcopter, to re-record the neutral position. If problem persists, it may be caused due to case.
2. Remote control joysticks have been trimmed, leading to deviation in neutral position, i.e., there is a large asymmetry in quadcopter joystick position-Solution: Recalibrate the Remote Control.

a) The S2 switch is used for calibration of the joystick. Turn S2 to position 3  , then turn on the remote control, and at this time the status indicator starts blinking (indicating joysticks calibration starts). Turn the left and right joysticks clockwise and counter-clockwise respectively at the maximum stroke for two circles, and then release the joysticks. (ensure that the joysticks stay at the maximum stroke throughout this process) Then, the status indicator in the middle

will go out. Last, turn S2 to position 1  , the photo shooting & video recording indicator will come on (green) and then go out 3s later. Now the calibration completes successfully.




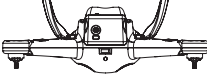

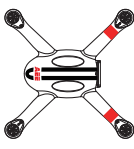


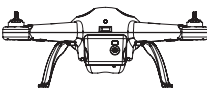
(b) Re-start the quadcopter, and pay attention whether or not it starts properly. If the problem cannot be solved by the above methods, please send back the remote control to our factory for repair.

### 3.2 Solutions for Accelerometer Abnormalities

#### 3.2.1 Situations requiring recalibration

- (1) The accelerometer data are abnormal; the four front arm lights blink fast.
- (2) The mechanical structure of the quadcopter changes.
- (3) The drift distance is significant during flight.

### 3.2.2 Calibration steps

1	2	3	4	5
				
Place the quadcopter on a flat and still ground; turn on the remote control and the quadcopter in sequence	After the quadcopter is normally powered on, turn the S4 switch on the remote control between positions 1 and 3 for more than 5 times (i.e., 5 switch cycles); the quadcopter tail light will blink fast, and the quadcopter will enter the calibration standby mode	Turn the joysticks of the remote control to a lower toe-in shape until the four arm lights go out, and then return the joysticks to the middle position. Accelerometer command has been sent successfully	When the four arm lights start Remaining ON again, place the quadcopter on the ground upside down (in order to avoid scratch of the housing, it is suggested that sponge should be applied). Turn the joysticks of the remote control to a lower toe-in shape until the four arm lights go out, and then return the joysticks to the middle position	When the four arm lights start Remaining ON again, lean the four supports of the quadcopter against a wall (with the nose facing downward) to make it perpendicular to the ground. Turn the joysticks of the remote control to a lower toe-in shape until the four arm lights go out, and then return the joysticks to the middle position
6	7	8	9	
				
When the four arm lights start Remaining ON again, lean the four supports of the quadcopter against a wall (with the nose facing leftward) to make it perpendicular to the ground. Turn the joysticks of the remote control to a lower toe-in shape until the four arm lights go out, and then return the joysticks to the middle position	When the four arm lights start Remaining ON again, lean the four supports of the quadcopter against a wall (with the nose facing upward) to make it perpendicular to the ground. Turn the joysticks of the remote control to a lower toe-in shape until the four arm lights go out, and then return the joysticks to the middle position	When the four arm lights start Remaining ON again, lean the four supports of the quadcopter against a wall (with the nose facing rightward) to make it perpendicular to the ground. Turn the joysticks of the remote control to a lower toe-in shape until the four arm lights go out, and then return the joysticks to the middle position	At last, If the four arm lights stop blinking fast simultaneously, it indicates the accelerometer calibration is successful. Otherwise, the accelerometer should be recalibrated	



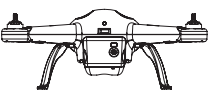


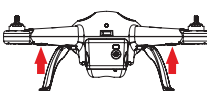
**Warning:** In order to avoid accidental injury or loss, please remove the propellers prior to calibration.

## 3.3 Solutions for Gyroscope Abnormalities

### 3.3.1 Situations requiring recalibration

- (1) The gyroscope data are abnormal; the four front arm lights blink fast.
- (2) The mechanical structure of the quadcopter changes.
- (3) The drift distance is significant during flight.

### 3.2.2 Calibration steps

1	2	3	4
			
Place the quadcopter on a flat and still ground; turn on the remote control and the quadcopter in sequence	After the quadcopter is normally powered on, turn the S4 switch on the remote control between positions 1 and 3 for more than 5 times (i.e., 5 cycles); the quadcopter tail light will blink fast, and the quadcopter will enter the calibration standby mode	Turn the joysticks of the remote control to an upper toe-out shape, wait until the four arms lights on the quadcopter start blinking slowly, and then release the joysticks. Gyro command has been sent successfully. (Do not move the quadcopter when it is calibrating)	At last, If the rear arm lights (red) remain on, it indicates the calibration is successful. Otherwise, the gyroscope should be recalibrated.



**Warning:** In order to avoid accidental injury or loss, please remove the propellers prior to calibration.



### 3.4 Quadcopter is out of sight and the Wi-Fi is disconnected

Turn off the remote control and let the quadcopter automatically return. Ensure there are no obstructions on the quadcopter's return path, and ensure you are familiar with the procedures on how to regain control of the quadcopter.

Turn off the Remote control to trigger the Failsafe mode and the quadcopter will start to fly back, descend, and land at the Home Point. Ensure there are no obstacles between the AP10 Pro and the Home Point and that you are familiar with the procedure for regaining control.

### 3.5 Wi-Fi could not be re-connected

This is because after the mobile device disconnects from Quadcopter Wi-Fi connection, the mobile device automatically connects to other Wi-Fi networks. Please check your mobile device is connected to the Quadcopter Wi-Fi network.

### 3.6 Precautions while using App on multiple mobile devices

During flight if the App is used on one mobile device and then launched on another mobile device, please make sure you completely log out from the App in the original mobile device, so that the App can be normally used on the other mobile device.

### 3.7 How can quadcopter land smoothly?

Before performing CSC, pull down the left joystick to less than 5% of the joystick level, and then execute CSC. This way you can land the quadcopter smoothly.

## Limited Warranty

AEE products are guaranteed against manufacturing defects, AEE's sole obligation in the event of such defects during this period is to repair or replace the defective part or product with a comparable part or product at AEE's sole discretion. Except for such repair or replacement, the sale, processing or other handling of this product is without warranty, condition or other liability even though the defect or loss is caused by negligence or other fault. Damage resulting from use, accident, or normal wear and tear is not covered by this or any warranty. AEE assumes no liability for any accident, injury, death, loss, or other claim related to or resulting from the use of this product. In no event shall AEE be liable for incidental or consequential damages relating to or resulting from the use of this product or any of its parts. Because of possible user resealing error, this product is not warranted against leakage in waterproof housing or any resulting damage. Returns or replacements of parts and/or products may be subject to shipping, handling, replacement and/or restocking fees.

If you are experiencing a problem with an AEE purchase, please contact our Customer Support Team by visiting our website [www.aeeusa.com](http://www.aeeusa.com).

For product warranty period and conditions, please refer to [www.aeeusa.com](http://www.aeeusa.com) for details.

Tip: If you bought this product from an AEE authorized dealer, we would recommend that you first contact them for technical support issues.

This User Manual is subject to change without prior notice.

You can check the official AEE website for the latest updated version.







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