AEE Drones, TORUK AP10 16 MP HD FPV Camera

The TORUK AP10 with Integrated FPV Camera is the first generation of quad-rotor RC helicopter from AEE and features 16 megapixel wireless HD FPV cameras, giving you first-person view (FPV) experience right out of the box. With a 3S 5300mAh battery and improved prop design, flying time lasts to up to 25 minutes. This product will appeal to a variety of potential users, from RC aircraft hobbyists who want to record their flights to videographers and photographers looking to open up a whole new range of shooting possibilities.

Included with the Quadcopter is a wireless controller (TX) that has an operational range approaching 1000 feet (300 m) line-of-sight. The camera is controlled via 2.4 GHz Wi-Fi using an app available for iOS and Android devices. Using the supplied mount, you can attach your smartphone directly to the controller, giving you a "heads up" display directly from the camera's point-of-view . From the app you will also be able to start and stop video recording, take a snapshot and even tilt the camera up or down.

Because of the complexity associated with multi-rotor aircraft the TORUK AP10 relies on a GPS-based navigation system to maintain flight stability and provide other features. While fully manual operation is possible, most users, especially videographers hoping to get the smoothest possible shoots, will opt for GPS Flight Mode. GPS Mode is an autopilot system that keeps the Quadcopter stable and right-side-up when moving, and holds it in a fixed horizontal and vertical position whenever you release the controls.

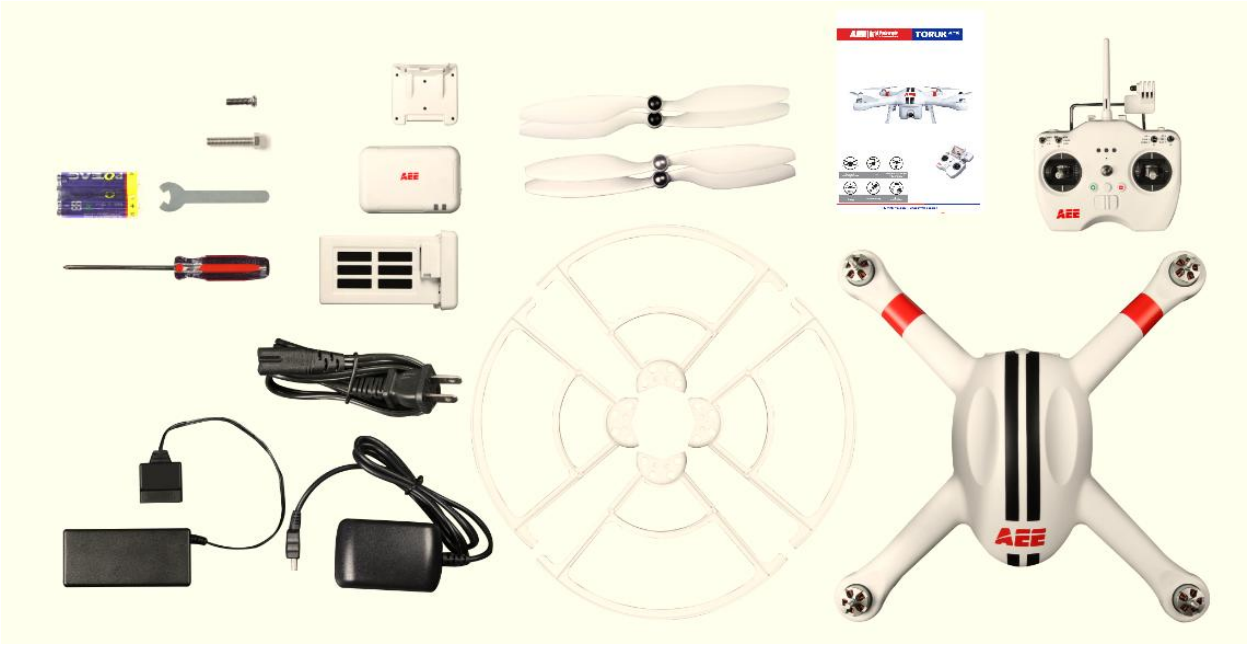
New for this model, the TORUK AP10 features a 5300 mAh battery system . The battery now slots in and provides LCD indicators on outside. Charging is also simplified, with all of the charging circuitry built into the battery itself. You simply need to plug it into the wall with the supplied universal AC adapter.

The TORUK AP10 includes a Wi-Fi Range extender that will increase the wireless range of the smartphone used for FPV camera operation up to 1000 feet (300 m) line-of-sight. The range extender mounts on the Radio Controller along with the smartphone.

Highlights

- 10" Self-Tightening Propeller Blades
- Integrated GPS Flight Control
- Max Horizontal Flight Speed of 8m/s
- Max Vertical Flight Speed of 10m/s
- Supports Dual Flight Control Modes
- LED Indicators & Low Voltage Protection
- iOS/Android App for Monitoring/Camera Control
- Up to 25 Minutes Flying Time
- GPS-Based Autopilot with Return to Home
- Stationary Hover with GPS and Normal flight Mode
- Self-Tightening Prop Design
- 16 MP Stills(interpolation) and 1080p Video
- 2.4 GHz Wi-Fi Downlink for Smartphones
- Smartphone Mounts to Controller for FPV

Features



Ready-to-Fly Design

Those used to other RC aircraft will note the TORUK AP10 requires only basic assembly using a screw driver and supplied wrench. You will just need to attach the rotors, skids, and a few other small parts. Once assembled you will need to follow a few calibration steps to ensure correct operation of the GPS autopilot system. After that you'll be ready to fly.

Integrated 16 MP HD FPV Camera

The TORUK AP10 features a 16 MP FPV camera specially designed for use with the Quadcopter. In addition to photos, the camera can record 1920 x 1080 resolution video at 30 fps. The camera is controlled wirelessly via WiFi using an app available for smartphones with Android or iOS. Internal recording is to a MicroSD/ SDHC card up to 32 GB.

It takes 60s for Ap10 to enable the on-board camera recording function

Normal and GPS Flight Modes

The TORUK AP10 has two flight modes for you to choose from. Of the two, GPS Mode is the most automatic.

Quadcopter will stop as soon as you release the controls and stay hovering at a fixed horizontal and vertical position. This setting is the easiest to fly and is generally preferred for shooting video as the Quadcopter won't sway or drift because of light wind gusts.

This not a true manual mode, however, in that the GPS navigation system is still used to maintain flight stability and by the "return to home" feature in the event of signal loss.

Return to Home Failsafe

If the Quadcopter loses the signal from the controller for any reason the "return to home" feature will initialize. The aircraft will ascend to 60 feet then make a straight-line course back to the "home position". Once there, it will safely descend to the ground and power itself off.

*To enable the Return to Home functionality, AP10 should get GPS signal before taking off

AEE iOS and Android App

The TORUK AP10 App for iOS and Android smartphones provides many functions apart from just FPV monitoring. It features full camera control, letting you set parameters as well as set video start/stop and take photos.

Slot-In Battery with LED Status Indicators

A 5300 mAh battery slots into the "tail" of the TORUK AP10 and enables up to 25 minutes of flying time. It features and on/off switch and LCD battery level. For recharging, balance and power regulation is handled internally within the battery itself. You simply plug it into a wall outlet with the supplied power cord and you are good to go.

Included Remote Control Unit

The TORUK AP10 features an included 915 MHz RF remote transmitter, with dual toggle joystick controls similar to the kind found on other multi-rotor RC aircraft. The left stick controls throttle (up/down) and yaw (essentially rotation). And the right stick controls roll (side-to-side tilt) and pitch (tilting the nose up or down). A switch on the top right lets you choose between different flight modes and tilt the integrated camera. The control unit also features a detachable mount for holding your smartphone.

LED Status Indicator

LED status light on the struts of the TORUK AP10 provides you with various feedback as well as warnings. Colors alternate between green and red and can either be flashing or solid. These messages give you valuable information such as whether the Gyro system is properly calibrated, warning you the battery is getting low

Self-Tightening Rotor

The TORUK AP10 features a rotor design that is new for this model. There is no longer a separate prop nut and the threading is designed to be self-tightening, so there is no danger of a loose prop coming off in flight.

What's in the Box

- AEE TORUK AP10 16 MP HD FPV Camera
- Transmitter/Remote Control
- 4 x Propeller Guards
- Wi-Fi Range Extender/Repeater
- Smartphone Mount for Controller
- Landing Gear (4pcs)
- 5300 mAh LiPo Battery
- AC Transformer to Charge Battery
- 8 x Self-Tightening Props
- 4 x AA Battery
- Wrench
- USB Cable
- Limited 1-Year Warranty on Transmitter, MC, ESC, and Camera Only

General

Brand

AEE

Part

TORUK AP10

Color

White

After service Information

AEE always suggests customers to contact aeetechsupport@aee.com or call AEE hotline 877 414 7993 (10:00~:17:00 EST) first for warranty/non-warranty service and question.

Tell the customer the following information when you are selling it to end users

Please tell the end users to follow operation procedures before using the AP10

1. Lock the battery after it slot in
2. Do not touch AP10 when the propellers are spinning up
3. Read the instructions on the remote warp before using it
4. The flight time is around 20 minutes; please make a return flight when flying around 10 minutes.
5. If LED light in arm is flashing, the sensor(s) need to be Re-calibrated
    a. Calibrate the Compass if two green LED arm lights are flashing before taking off
    b. Calibrate Gyro if two Red LED arm lights are flashing before taking off
    c. Calibrate Accelerometer if two Red LED and two green LED are flashing before taking off
    d. Please search the calibration video in Youtube, or scan the QR code on the side of package **(the video will be ready soon)**
6. Search the tutorial videos of AP10, watch them carefully before operate the AP10