

Product parameters

TOPODRONE DJI AIR 2S PPK Upgrade KIT is an upgrade module installed on the DJI Air 2S drone, which is connected to the camera shutter and allows you to record raw GNSS measurements along with timestamps of the shutter triggering moments. This module consists of the following main parts:



Upgrade TOPODRONE DJI Air 2S PPK Upgrade KIT

1. Helix HX-CH6601A **external GNSS antenna**. This antenna is installed on the upgrade board to receive satellite signals from various navigation satellite systems. To perform aerial photography with high accuracy, this antenna must be securely fixed. The drone can be used without an antenna, but GNSS data will not be recorded when updating.

2. **The green light** indicates that the DJI Air 2S drone is powered on. This LED is solid green to indicate that the upgrade is powered on. If the green LED on an installed upgrade does not light up when power is turned on, it means that the upgrade is not installed correctly or is defective.
3. **The blue light** indicates the GNSS signal quality level of the external GNSS antenna. It may light up constantly, blink with different frequency, or not light up at all. A quality GNSS signal corresponds to a constant blue LED signal. It is switched on only after initialization.

Status	Description
Not lit	PDOP>10
Slowly flashing	3<PDOP<10
Fast flashing	2<PDOP<3
Continuously lit	PDOP<2

4. **The Orange LED** indicates the status of recording to the memory card. The LED blinks rapidly during recording. Each blinking corresponds to the recording of 4 Kb of data. The blinking frequency is proportional to the amount of data being written to the memory card. It is switched on only after initialization.
5. **The Red LED** indicates the presence of errors in the system. The most common error is the inability to write data to the memory card, if the card is missing, full or damaged. In this case all other LEDs light up together with the red one. If this error occurs, check the memory card and clean the connector. If replacing, reconnecting or formatting the Micro-SD card in FAT32 format does not solve the problem, please contact technical support.
6. **Micro-SD memory card slot.** Card capacities from 4 GB to 64 GB are suitable. It is recommended to use Class 10 UHS-U1 speed class. A 16 GB memory card of the appropriate speed class and format is always supplied with the upgrade. The file structure of the memory card must be formatted in FAT32 format with a standard cluster size.
7. **TOPODRONE DJI AIR 2S PPK Upgrade** is installed in the front of the DJI Air 2S drone, attached to the drone with two screws and plastic clips. All parts of the upgrade are securely attached to the drone body and are the same color. The TOPODRONE DJI AIR 2S PPK upgrade body has 4 round holes to allow the front sensors of the visual positioning system to work. The compact size of the upgrade does not cover the working angles of the front visual positioning system, as well as not to cover the GNSS navigation antenna of the drone itself



TOPODRONE Air 2S PPK Upgrade case, front view

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