

PHANTOM

LED Indicator Description & FAQ



LED Indicator Description

Control Mode and GPS Satellite Number Indicator

Control Mode (with GPS module)			
	ATTI. Mode	GPS ATTI. Mode	IOC
GPS Satellite number < 5			
GPS Satellite number = 5			
GPS Satellite number = 6			
GPS Satellite number > 6			
Flight Attitude is bad			
Control Mode (without GPS module)			
ATTI. Mode			

Flashing indications of ATTI. Mode and GPS ATTI. Mode are:

- Before motors start: **Single blink**, all sticks (except throttle stick) at center; **Double blinks**, stick(s) (except throttle stick) not at center.
- After motors start and throttle stick is over 10% within 3 seconds: **Single blink**, all sticks at center; **Double blinks**, stick(s) not at center.

Blinking indications of IOC are:

- Before motors start: **blink**, all sticks (except throttle stick) return to center; **blink**, stick(s) (except throttle stick) not at center.
- After motors start and throttle stick is over 10% in 3 seconds: **blink**, all sticks return to center; **blink**, stick(s) not at center.

Others

Record forward direction or home point	
Transmitter signal lost	
Low voltage / Other errors	
System start and self-check	
IMU abnormal data	
PHANTOM warm up after power on	Control Mode + GPS Satellite Number +
IMU Basic Calibration is needed/ Or PHANTOM is moved after power on and before the motors start-up	Control Mode + GPS Satellite Number +

Compass Calibration

Begin horizontal calibration	
Begin vertical calibration	
Calibration or others error	
Compass error too big	

Q: Where can I get the manual, assistant software and other materials of Phantom?

A: You can find all the related materials from DOWNLOADS at PHANTOM page on <http://www.dji-innovations.com/>.

Q: Where can I find relevant videos of Phantom?

A: You can find all the related videos on the PHANTOM web page at <http://www.dji-innovations.com/>.

Q: Where can I get the information about "Software and Driver Installation ", " Configuration and Firmware & Software Upgrade ", " Linking the Transmitter and Receiver " and " Changing the Control Mode of the Transmitter ", " Transmitter Calibration ", " Mounting the Camera and Camera Frame " and " Intelligent Orientation Control (IOC) Flight ", etc?

A: Please download the Advanced Manual from the PHANTOM web page.

Q: Where can I get the information about the battery and charger?

A: Please download the Battery and Charger Instruction from the PHANTOM web page.

Q: "System initializing and self-checking LED flashes" are not correct (Red LED appears in the last four green flashes).



A: The autopilot system works abnormally. Please contact your dealer.

Q: Some risks may occur during the flight.

A: Please be sure to read the instructions and get familiar with this product before flying, otherwise there could be a serious accident. Aircraft crashed, rotating propeller may hurt people and objects. Aircraft may be out of control or even lost.

Q: After the system start and self-checking has finished, if the LED blinks Red, Green and Yellow () continually.

- A:
1. Sensor error is too big. Please connect the assistant software, enter the "Tools" -> IMU calibration, watch the "IMU calibration" videos, carry out basic calibration or advanced calibration.
 2. Damage of the accelerometer. Please contact your dealer.
 3. Sensor does not work. Please contact your dealer.

Q: After power on and before the motors start-up, the LED blinks Green 6 times quickly. 

- A:
1. If the PHANTOM is moved, it is normal.
 2. If the PHANTOM is stationary, IMU calibration is necessary. Please connect the assistant software, enter the "Tools" -> IMU calibration, watch the "IMU calibration" videos, carry out basic calibration or advanced calibration.

Q: The aircraft does not take off or turns over when pushing the throttle stick.

- A:
1. The propeller assembly is not correct. Check that the rotation of the propellers and motors are matched.
 2. Sensor error is too big, the system will not work. Please connect the assistant software, enter the "Tools" -> IMU calibration, watch the "IMU calibration" videos, carry out basic calibration or advanced calibration.

Q: LED blinks Yellow 6 times quickly after the Control mode LED blinks. ()

- A:
1. The built-in sensors need some time to reach a stable state.
 - Make sure not to fly the PHANTOM until the 6 rapid yellow flashes disappear.

Q: Under low temperature conditions, if I have () appearing continuously for a long time, what can I do?

A: You can cover the ventilation holes with some adhesive tape.

Q: The LED blinks Red and Yellow alternately. ()

- A:
1. There may be a ferromagnetic substance close to the Phantom. Lift the aircraft up about 1m from the ground, if there is no Red and Yellow flashing, then it will not affect the flight.
 2. Otherwise, re-calibrate the compass.
 3. If re-calibration does not work, please connect to the Assistant Software, select the "Tools" and follow the tips to carry out the required operation.
 4. The compass module is defective, replace it. Please contact your dealer

Q: The aircraft is drifting during flight.

A: Sensor error is too big, IMU calibration may be required; for the calibration operation, please watch the "IMU calibration" video (online).

Q: The aircraft is suddenly out of control during flying.

A: The compass has been magnetized or not calibrated. Please watch the "resetting the compass" video, (online), referring to the video carry out demagnetization. Then Recalibrate the compass.

Q: The aircraft drops height suddenly during flying and the LED flashes 

A: Low-voltage protection is triggered. Please land the aircraft ASAP.

Q: The LED blinks Yellow quickly continually. 

- A:
1. The TX signal is lost.
 1. Check that the transmitter is switched on and works normally.
 2. Check that the receiver and the main controller are connected correctly.
 3. Check that the receiver setting is correct in the assistant software.

Q: Firmware upgrade is abnormal when using the NAZA-M assistant software.

A: Please contact your dealer.

Q: After power on and before the motors start, if the control mode LED double blinks without moving any TX stick.

A: This indicates that you have moved at least one TX sticks during system start up and self-check. Reboot the autopilot system.

Q: The aircraft does not receive any satellite signals.

A: 1. Please check if there are buildings that could be blocking the satellite signal. GPS needs an open area to work.
2. Please check whether there are objects placed on the top of the PHANTOM, that could be blocking the signal to the satellite sensor.

Q: How do I determine that the GPS module is in working condition?

A: 1. When you connect to the assistant software, if it requests that you connect the GPS module, it means that the GPS does not work correctly.
2. Put the TX switch "Si" to the top position, if there is a mode light blinking such as green single flash (or double flash), it means that the GPS is working correctly.
3. After power on, if you have seen the red light flashing one, two or three times indicating the number of satellites locked, it means that the GPS works correctly.

Q: Unable to connect to the assistant software.

A: 1. The driver is not installed properly. Reinstall the driver.
2. The assistant software and firmware versions do not match. Upgrade the software or firmware.
3. If the LED indicator does not light solid Green, it is probably the wire that is damaged or a bad connection, or the LED module is broken. If it is sure the LED is broken, please contact your dealer.

Q: The transmitter alarms when switched on.

A: 1. The throttle stick is not at the lowest position, pull the throttle stick to the lowest position.
2. The transmitter has a low battery, change the batteries in the transmitter.

Q: Flying time shortens.

A: 1. The battery is not in a good condition.
2. The battery is not fully charged.
3. Load weight increased.
4. The battery might be very cold (i.e. cold weather)

Q: LED indicator does work correctly.

A: Damaged LED module. Please replace it for a new LED module.

Q: Can I fly my Phantom with any WiFi enabled equipment?

A: No, the WiFi signal may interfere with the signal of the transmitter and affect your flight.

常见问题

Q: PHANTOM相关的说明书、调参软件等资源在哪里可以下载。

A: 在DJI网站(<http://www.dji-innovations.com/>)上PHANTOM的主页中的“下载”链接下你可以找到所有相关文件。

Q: 在哪里可以找到相关视频教程。

A: 在DJI网站(<http://www.dji-innovations.com/>)上PHANTOM的主页中可以找到相关视频教程。

Q: 从哪里可以了解“驱动程序和调参软件安装”、“飞行器调试及固件&调参软件升级”、“遥控器与接收机对码”、“遥控器控制模式更改”、“遥控器校准”、“安装相机框架与相机”和“智能方向控制飞行”等内容。

A: 请从PHANTOM下载页面下载“高级篇手册”。

Q: 从哪里可以了解充电器和电池的相关内容

A: 请从PHANTOM下载页面下载“电池与充电器使用说明”。

Q: 系统初始化和自检时闪灯不正确，最后四内绿灯中有红灯出现。●●●●●●●●●●

A: 飞控系统不能正常工作。请联系您的代理商。

Q: 飞行器过程可能会出现风险。

A: 请务必阅读说明书，在熟悉本产品之前请勿进行飞行，否则会出现严重事故。
飞行器坠落、旋转的螺旋桨可能会伤到人和物。飞行器可能会不受控制甚至丢失。

Q: 系统初始化和自检之后，如有(●●●●●●)出现。

A: 1. 传感器误差过大。请连调参软件，进入“工具”->IMU校准，观看“IMU校准”视频教程，进行基础校准或高级校准。
2. 加速度计损坏。请联系代理商。
3. 传感器不工作。请联系代理商。

Q: 系统初始化和自检之后，启动电机之前，如有(●●●●●●●●)出现。

A: 1. 如果飞行器被触动时出现，则为正常现象。
2. 如果飞行器静止时出现，则需要进行IMU校准。请连调参软件，进入“工具”->IMU校准，观看“IMU校准”视频教程，进行基础校准或高级校准。

Q: 推油门飞行器不起飞或者翻倒。

- A: 1. 螺旋桨装配不正确。检查螺旋桨的转向与电机转向是否匹配。
2. 传感器误差过大, 飞行器无法工作。请连调参软件, 进入“工具”->IMU校准, 观看“IMU校准”视频教程, 进行基础校准或高级校准。

Q: 系统初始化和自检之后, 如有 (●●●●●●●●) 出现。

- A: 飞行器内部传感器预热, 预热完成后, 该现象消失。请您等待飞行器预热完成之后再进行飞行, 否则会导致飞行器漂移或侧翻。

Q: 在气温比较低的情况下, 如有 (●●●●●●●●) 持续出现的时间长, 怎么办。

- A: 可考虑用胶纸将飞行器的散热孔封住。

Q: 如有 () 出现。

- A: 指南针误差过大。
1. 远离周围可能存在铁磁性物质的物体。如果飞行器在离地约1m后红黄闪灯消除, 则此情况不影响飞行。
2. 否则请重新校准指南针。
3. 重新校准依旧无效, 请连调参软件, 进入“工具”->IMU校准->指南针, 观察指南针“横”值是否超出正常范围。如果超出范围, 表明指南针被磁化。
4. 如果指南针被磁化, 请观看“重新校准指南针”视频教程, 根据视频里面的步骤修复。切记, 修复后请重新校准指南针。

Q: 飞行器飞行过程出现漂移。

- A: 传感器误差过大, 可能需要校准IMU; 校准操作请观看“IMU校准”视频教程。

Q: 飞行器飞行过程突然不受控制。

- A: 指南针受磁化或未校准。请观看“重新校准指南针”视频, 根据视频里面的步骤去做。重新校准指南针。

Q: 飞行时突然掉高度并快闪红灯。●●●●●●●●●●●●●●●●●●●●

- A: 触发低压保护。请立刻下降飞行器。

Q: 一直出现黄灯快闪。●●●●●●●●●●●●●●●●●●●●

- A: 遥控器信号丢失。
1. 检查所匹配的遥控器是否打开并正常工作。
2. 连接调参软件, 检查接收机设置。
3. 检查接收机与主控的连接线是否正常。

Q: NAZA-M调参软件无法正常升级固件。

- A: 请联系代理商。

Q: 飞行器上电后, 电机启动前, 没有拨动任何摇杆, 如有模式灯双闪出现。

- A: 存在摇杆不在中位, 可能上电自检过程拨动了遥控器摇杆, 需要重启主控。

Q: 飞行器一直搜不到卫星信号。

- A: 1. 请检查周围是否有建筑物遮挡。GPS需要工作在室外开阔地带。
2. 请检查是否有物体放置于PHANTOM的正上方。

Q: 如何确定GPS模块处于工作状态。

- A: 1. 调参软件里面若看到要求连接GPS模块, 则证明GPS未正常工作。
2. 检查S1开关停留在最上方的时候, 如有模式灯绿灯单闪 (或双闪) 出现, 则证明GPS正常工作。
3. 开机之后如有出现过星数灯 (红灯一闪/两闪/三闪), 则证明GPS正常工作。

Q: 无法连接调参软件。

- A: 1. 没正确安装驱动程序。重新安装驱动程序。
2. 调参软件与固件版本不匹配。升级调参软件或固件。
3. 如果LED指示灯未出现绿灯常亮, 则有可能是连接线接触不良及损坏, 或者是LED灯模块故障。如确定是LED灯模块故障, 请联系代理商。

Q: 遥控器开机报警。

- A: 1. 油门杆未拉到最低点。将油门杆拉到最低点。
2. 遥控器电池电量不足。更换遥控器电池。

Q: 飞行时间变短。

- A: 1. 电池状态不佳。
2. 电池没充满电。
3. 飞行重量增加。
电池做好保温措施或更换新电池。

Q: LED灯不能正常工作。

- A: LED灯损坏。请更换新的LED灯模块。

Q: 是否能开启GoPro3的WiFi功能。

- A: 如果使用您自己的电子设备 (如GoPro3), 请确保关闭其WiFi功能, 避免遥控器受干扰, 从而导致飞行器失控、炸机、甚至飞丢等严重后果。