

# DJI Phantom 3 Pre-Flight Checklist

## Before Departing for Site Check

- ☐ Aircraft (AC) and Remote Controller (RC) batteries fully charged
- ☐ Tablet fully charged
- ☐ Portable Radio for communicating with manned AC fully charged
- ☐ Ensure SD card has free space and is inserted into the camera
- ☐ Ensure Firmware is updated on AC and RC(s)
- ☐ Cache location maps into all DJI Pilot app devices
- ☐ Check for frequency (FX) used by local manned AC ([Skyvector.com](http://Skyvector.com))
- ☐ Check if flight location is in No-Fly Zone (Check here: [airmap.io](http://airmap.io))
- ☐ Program local FX into portable radio
- ☐ Check for NOTAMs at desired flight location ([FAA.gov/notamSearch](http://FAA.gov/notamSearch))
- ☐ Check weather
  - ☐ Precipitation less than 5-10%
  - ☐ PWinds under 20kts
  - ☐ Cloud layer above 500' (152M)
  - ☐ 1 statute mile visibility
  - ☐ KP index is 5 or less (Check here: [UAVforecast.com](http://UAVforecast.com))
  - ☐ Check Sunrise, Sunset, Moonrise, Moonset
- ☐ Comprehensive maintenance after 200 flights or 50 flight hours. ([Maintenance Manual](#))

## Location On-Site Check

- ☐ Check flying area free of overhead obstructions
  - ☐ Wires, low flying AC, trees, tall buildings
  - ☐ Antennas that may interfere with compass and GPS reception
- ☐ Weather meets conditions

- ☐ Winds under 20 kts (23 MPH or 10 meters per second)
- ☐ Clouds above 500' (152M)
- ☐ Visibility for 1 statute mile
- ☐ KP index 5 or less
- ☐ Confirm flight plan with camera operator and/or spotter  
*Note: Still perform step if by oneself, it adds clarity to decision making.*

## Physical Aircraft Check

- ☐ Desired ND filter attached to camera
- ☐ Camera locked in place
- ☐ SD card in camera
- ☐ Motors clear of Foreign Object Debris (FOD)  
*Note: FOD may cause motor burnout and complete AC inversion on take-off*
- ☐ Check propellers for any melting, misshapen, or cracks
- ☐ Propellers hand tight
- ☐ Prop locks firmly attached or
- ☐ Quick Release plastic base has no cracks or fissures.

## Remote Controller Check

- ☐ QAntennas oriented Properly  
*Note: The broad side should face the AC and they should not touch each other.*
- ☐ Switch to P-GPS mode
- ☐ Landing gear switch oriented down
- ☐ Check battery level of RC for minimum 75%












## DJI Pilot App Check

- ☐ Maximum Flight altitude set  
*Note: 121 Meters = 400'*
- ☐ Failsafe Mode, Set for 10M Clearance above lowest obstacle in flight plan  
*Note: 1 Meter = 3.3'*
- ☐ RC Signal Lost set to Return-to-Home
- ☐ Set Adaptive Landing Gear  
*Note: Preferred setting is "on"*
- ☐ Check Sensors
  - ☐ Gyroscope between "-1.0 to +1.0"
  - ☐ Acceleration between "-1.0 to +1.0"
  - ☐ Compass MOD between "1400 - 1599"
  - ☐ Check IMU
- ☐ Image Transmission Channel set  
*Note: Watch channels for 30 seconds to ensure selected channel is indeed stable*
- ☐ Battery Cells all 4.28V or greater
  - ☐ At least 98% battery
  - ☐ Ensure no greater than .2V between battery cells
- ☐ Adjust Gimbal Role to make level
- ☐ Ensure enough Satellites are locked (recommend 16)
- ☐ Set Camera Orientation mode  
*Note: Recommend "Follow-mode" for solo and "free-mode" with camera*
- ☐ Turn all devices to airplane mode
- ☐ Face AC into the wind  
*Note: This allows AC to float back to operator in case of emergency.*
- ☐ Check heading of Aircraft  
*Note: Ensure nose heading of red paper airplane is close to nose heading of actual aircraft.*











- ☐ Start Video recording
- ☐ Start Propellers using a Combined Stick Command (CSC)
- ☐ Ensure blue dot representing RC is accurately located on map
- ☐ Ensure home point is accurately set on map

Please check all boxes

### Aircraft LED Status

| Normal  |  |  |
|---|--|--|
|  ..... Red, Green and Yellow Flash Alternately |  | Turning On and Self Diagnostic Testing                       |
|  ..... Green and Yellow Flash Alternately      |  | Warming Up   |
|  ..... Green Flashes Slowly                    |  | Safe to Fly (P-mode with GPS and Vision Positioning)         |
|  ..... Green Flashes Twice                     |  | Safe to Fly (P-mode with Vision Positioning but without GPS) |
|  ..... Yellow Flashes Slowly                  |  | Safe to Fly (A-mode but No GPS and Vision Positioning)       |
| Warning   |  |  |
|  ..... Fast Yellow Flashing                  |  | Remote Controller's Signal Lost                              |
|  ..... Slow Red Flashing                     |  | Low Battery Warning  |
|  ..... Fast Red Flashing                     |  | Critical Battery Warning                                     |
|  ..... Red Flashing Alternately              |  | IMU Error  |
|  — Solid Red                                 |  | Critical Error   |
|  ..... Red and Yellow Flash Alternately      |  | Compass Calibration Required                                 |

### RC LED Status

| Status LED   | Alarm   | Remote Controller Status                                 |
|--|---|--|
|  — Solid Red  |  Chime | The remote controller is disconnected from the aircraft. |
|  — Solid Green  |  Chime | The remote controller is connected to the aircraft.      |
|  ..... Slow Blinking Red                              | D-D-D.....  | Remote controller error.                                 |
|  ..... Red and Green/ Red and Yellow Alternate Blinks | None  | HD downlink is disrupted.                                |
| RTH LED  | Sound   | Remote Controller Status                                 |
|  — Solid White  |  Chime | Aircraft is returning home.                              |
|  ..... Blinking White                                 | D . . .   | Sending Return-to-Home command to the aircraft.          |
|  ..... Blinking White                                 | DD . . . .  | Return-to-Home procedure in progress.                    |