

FLIGHT CHECKLIST FOR PHANTOM

PREFACE – Firmware on all devices/aircraft are up to date with the most stable, usable version.

PREFLIGHT – INSIDE/INITIAL/PRE-POWER-UP

- Structural Integrity Verification – AIRCRAFT (Can be conducted post flight)
 - Check for cracks
 - Check for loose components (screws, Camera UV/ND filter, labels, covers, skins)
 - Install/verify propellers are on and tightened
 - Verify landing gear/legs are sound and clean
 - Verify light covers are installed and not cracked/broken
- Electrical/Electronic Verification – AIRCRAFT (Can be conducted post flight)
 - Verify VPS sensors are not damaged or blocked
 - Verify gimbal cables are installed
 - Verify gimbal cables are not frayed, cracked or broken
 - Check each motor to ensure smooth rotation
 - Visually check coils in EACH motor using flashlight to ensure no broken, burned or misshapen coils
 - Verify wiring in aircraft legs is not frayed, broken or damaged
 - Use low pressure air (canned air for computer devices) blow out motors and battery compartment
- Structural Integrity Verification – BATTERY(IES) (Can be conducted post flight)
 - Check for cracks
 - Check for loose components
 - Ensure terminals are not bent, burnt or otherwise damage
- Electrical/Electronic Verification – BATTERY(IES) (Can be conducted post flight)
 - Ensure batteries are fully charged
 - Ensure no shorts exist across terminals
 - Use low pressure air (canned air for computer devices) blow out terminals
- Structural Integrity Verification – RC/FPV Device (Phone/Tablet) (Can be conducted post flight)
 - Check for cracks
 - Check for loose components
 - Verify antennae are tight and not damaged
 - Ensure connection cable between RC and FPV device is not frayed, broken or damaged
- Electrical/Electronic Verification – REMOTE CONTROL/FPV Device (Phone/Tablet)
 - Ensure RC and device are adequately charged
- Sight Conditions – WEATHER AND PERMISSIONS
 - Verify on sight conditions support flight
 - www.aviationweather.gov
 - www.weather.com
 - www.accuweather.com
 - Verify on sight condition air space classification and any notices
 - [NOTAMS](#)
 - Permission
 - Unlock if required online

FLIGHT CHECKLIST FOR PHANTOM

PREFLIGHT - ON SITE/INTERMEDIATE/PRE-POWER-UP

- Sight Conditions - VISUAL
 - Weather – Visual Assessment
 - Wind
 - Rain
 - Cloudiness
 - Crowd density
 - Interference
 - Physical – Trees, Power lines
 - Magnetic/Radio
 - Cell Towers
 - WIFI Density
 - Radar (on boats/ships)
 - Unlock if required using DJI Go GEO
- Launch Location
 - > 20 meters from water, highway, detrimental location
 - Shielded/away from metal or other magnetic interference

FLIGHT CHECKLIST FOR PHANTOM

PREFLIGHT – ON SITE/INTERMEDIATE/AT POWER-UP

- Power Up RC
 - Ensure lights and sounds are normal
 - View **RED** LED on RC
 - Ensure FUNCTION switch set to “P”
- Power up aircraft
 - Install battery (if not already completed)
 - Power aircraft
 - View 4 **GREEN LEDs** on battery
 - View **RED** LED button on battery
 - Listen for 4 distinct beeps from AIRCRAFT
 - View camera/gimbal rotate through motions and steady up facing forward
 - View AIRCRAFT safety LEDs blinking
 - RC connection verification
 - Verify **GREEN LED** on RC
- Power FPV device/Start control application
 - Open DJI GO
 - Verify SAFE TO FLY-GPS
 - Note number of GPS/GLONASS satellites
 - Verify RADIO SIGNAL is adequate – No Interference
 - Verify HD and RC signal 4 bars
 - Verify battery > 95-100% and battery voltage > 4.10volts
 - Verify compass values. Calibrate compass if required
 - Mod Values should be between 1000-2000, 1450-1550 ideally
 - Ensure no metal objects in vicinity
 - Select P-GPS on FPV device
 - Verify RTH
 - Set height is higher than surroundings
 - Loss RC signal
 - Over open water – Hover
 - Overland – RTH

FLIGHT CHECKLIST FOR PHANTOM

PREFLIGHT – ON SITE FINAL/POWER UP

- Perform CSC, start motors
 - Verify FUNCTION switch set to “P”
 - Verify FPV device/DJI Go states “Takeoff”
 - Ensure home point recorded/updated
 - Verify motors are at “low idle”
 - Check battery voltage > 4.10volts
 - Verify compass values again
 - Mod Values should be between 1000-2000, 1450-1550 ideally
 - Ensure no metal objects in vicinity

TAKEOFF – ON SITE/FINAL/TAKEOFF

- Raise altitude to above head height 6-8ft.
 - Verify FUNCTION switch set to “P”
 - Verify compass values again
 - Mod values should be between 1000-2000, 1450-1550 ideally
 - Ensure stability after ~30-45 seconds
 - Follow preplanned launch route, execute flight