

# **CAMFLY Films**

## **Phantom 3**

### **General Pre/Post Flight procedures**

## Phantom 3 Loading list

Item	Checked	Detail
Phantom 3 Flight case		Inventory
Anemometer		Check Serviceable
Spectrum Analyser		Fully Charged and serviceable
Tool Case/ Accessories		Required tools / Misc
Batteries		4 Fully charged
Chargers		2
Micro SD Cards		2 X 32GB
Ipad Air2		Fully Charged
Remote controller		Fully Charged
Cable Link RC/Ipad		Check presence/condition
Spare Propellers		8
Sunshade		Check Presence
Maps /Charts		Relevant to task Area and Route
Camfly Operating Manual		Check presence
Remote Pilot License		Check presence
Remote pilot logbook		Check Presence
CAA License		Check Presence
Task Information		Client Contact Details:
Pre deployment Survey		Check Presence
Risk Assessment		Check Presence
Fire Extinguisher		Check Serviceable
First Aid Kit		Check Contents
Fluorescent Vest		X3
Cordon Equipment		Cones, Tapes, Signage
Take Off/Landing Mat		Check presence

# **CamFly Films Phantom 3 Airworthiness and take off check list**

## **Site Inspection**

- Proceed to visual inspection of the site to establish an onsite risk assessment.
- Determine main and alternative Take off / landing site.
- Check wind speed and direction (Anemometer)
- Check 2.4 Ghz fratricide frequencies (Spectrum Analyser)

## **Aircraft Visual Inspection**

- Check integrity of the frame and landing gear.
- Check cleanliness of battery contacts
- Check propellers for cracks and chips
- Check propellers correctly tightened
- Check motors are correctly seated and hand spin smoothly
- Check gimbal rubber dampers and pins
- Check camera mount is in good condition
- Check cleanliness of lens / filter
- Check all components are securely fastened to the frame
- Remove Gimbal lock and check for gimbal free operation

## **Safety Equipment installation**

- Wear Hi-visibility vests
- Deploy signage/cordons
- Materialise take off / landing site with cones
- Install take off / landing matt
- Deploy fire extinguisher and first aid kit next to the take off / landing site

## **Safety briefing**

- Proceed to brief the relevant personnel about safety procedures at pre, during, post task and emergency procedures according to operating manual.

## **Pre-flight Systems Checklist**

### **Installation**

- Attach Ipad to remote controller
- Connect remote controller to ipad through link cable
- Start Ipad. Check battery level
- Start Remote Controller. Check battery level
- Deploy antennas parallel to the ground
- Install battery in Phantom 3:
  - Check it is firmly inserted.
  - Check battery level

### **Pre-flight checklist**

- Start DJI App
- Start Phantom 3. Check for audio POST.
- Go through status list:
  - Gimbal status
  - Radio signal quality
  - Flight mode
  - Aircraft battery level general / per cell
  - Check video link quality
  - Check amount of visible satellites
  - Check "safe to fly" green box on screen

## **Compass Calibration**

- Choose a metal/magnetic free area.
- Tap Calibrate:    Aircraft tail led turn static yellow.  
                             Rotate 360 CCW Led turn static green.  
                             Put nose down and rotate 360 CCW, led turn  
                             slow flashing green.

## **Check Camera settings**

- Photo or video
- Check photo iso/shutter speed
- Check video frame rate and shutter speed
- Check recording time remaining
- Check gimbal tilt speed
- Check triggering system operative

## **Pre motor initialisation checks**

- Brief relevant personnel on emergency shutdown procedures in case of pilot incapacity.
- Check persons not under the command are at safe distance from take-off position
- Check for FOD on take off/landing site

## **Pre take off checks**

- Announce loud: Clear Props!
- Start engines
- Check all motors are operational (Check their noise for abnormal sound)
- Check vocal confirmation of home point from the App
- Start recording
- Record start Flight time
- Announce loud: Taking off!

## **Airborne checks at controlled hover 2/3 meters**

- check controls for correct operation
- Check GPS hold operative
- Planned flight is safe to carry out
- Carry out planned flight

## **Landing and shut down Procedure:**

- Persons not under the command of the pilot are at safe distance from landing position
- Landing area is not obstructed
- Check if landing site is FOD free
- Announce loud: Landing!
- After landing shut motors down
- Stop recording
- Turn off Phantom 3 battery

## **CamFly Phantom 3 Post Landing Check list**

- Record landing time
- Check Motor temperature/bearing play/hand spun
- Remove battery and check for damage/swelling
- Check propellers for cracks, chips
- Check aircraft frame for damage
- Check gimbal and camera integrity

## **Carry on Task**









- Proceed to pre flight checks.

## **End of Task**





- Turn off Ipad
- Turn off Remote controller
- Lock gimbal in place with gimbal locker
- Store Phantom 3 in flight case
- Store Flight Accessories in their respective flight cases
- Pack back safety equipment in orderly fashion
- Load vehicle in safe and orderly fashion
- Check for forgotten property and cleanliness of operating site
- Complete paperwork

## Annexe

### Aircraft Status Indicators

-  Slowly: Safe to fly, GPS working
-  x2 Continuously: Vision Positioning system working, no GPS
-  Slowly: P-ATTI or ATTI Mode
-  Quickly: Not connected to the Remote Controller
-  Slowly: Low Battery Level Warning
-  Quickly: Critical Low Battery Level Warning
-  Solid: Critical error
-  Blinking Alternately: Compass calibration required

### Remote Controller Status LED

-  Remote Controller is functioning normally, but is not connected to the aircraft.
-  Remote Controller is functioning normally and is connected to the aircraft.
-  B-B-B... Aircraft Low Battery Level Warning or Remote Controller error.
-  B—B—... Remote Controller has been idle for 5 minutes.