



INTEL® FALCON™ 8+ UAS CHECKLIST

First flight of Day Checklist

Is the transport case free of visible damage?

If there is new visible damage from the last transport, take special care during the check of the complete UAS.

Is the UAS free of visible damage?

If there are visible damage, contact your supplier.

Are all the propellers in good condition?

Replace propellers if there are any nicks, cracks, breaks or other damage.

Are all the propellers firmly mounted to the Motors?

Move the propellers gently while holding the motor.

Nudge every single propeller so that it turns, and check if any unusual sound can be heard.

If there is a scratching sound, this might come from an object in the motor. Please try canned pressurized air to clean the motor. If there is a rattling sound this might come from a propeller which is not attached tightly enough. In this case carefully check the self-tightening nut on top of the propeller.

Is the SD card of the Black Box (flight logger) correctly inserted?

Check the SD card in the back of the Intel® Falcon™ 8+ UAS. If the Status Display of the Intel Cockpit GCS displays the message "No user SD" card, please take out the card, make a backup copy, format it and re-insert it into the Intel® Falcon™ 8+ UAS.

Is the black box USB stick correctly inserted in the back of the Intel® Falcon™ 8+ UAS?

Check the USB stick in the back of the Intel® Falcon™ 8+ UAS. If the writing "USB" in the Status Display is crossed out, please take out the USB stick, make a backup copy, format it and re-insert it into the Intel® Falcon™ 8+ UAS.

Is the gimbal correctly attached, and its thumbscrew in the back of the Intel® Falcon™ 8+ UAS installed?

Make sure that the payload adapter is correctly attached onto the payload, that the camera mount is pushed all the way in, and that the thumbscrew is installed finger tight.

Are all the Intel Powerpack Batteries fully charged?

Voltage level can easily be checked using the LEDs on the front of the Intel Powerpack Batteries.

PREFLIGHT

Aircraft Condition.....Inspect

Central Unit.....Inspect
Propellers.....Secure
Propeller Surfaces.....Inspect
SD Card/USB Stick.....Present
Payload.....Installed
Lens Cap.....Removed
Payload Battery.....Installed
Payload Power.....On
Aircraft Batteries.....Installed
UAS Power Switch.....Press & Hold
GCS Antenna Panel Fully Extend
GCS Harness.....Installed
GCS Battery..... Installed
Touchscreen Tablet.....On
GCS Power Switch.....Press & Hold
Landing Feet.....Inspect

BEFORE START

Flight Area.....Clear
Propeller AreaClear
Comm. Link.....Established
Video Image.....Present
Loss Link Procedure.....Established
GCS Status Message.....OK
GPS Quality (GPS Mode).....≥ 4 bars
Launch Area.....Clean, Clear
Weather.....Check
Wind speed.....Verify within limits
Smartphone.....Airplane mode

SYSTEM START

Payload Gimbal.....Engaged
Lost Link Procedure.....Note
GCS Battery Capacity.....Note
Aircraft Batteries.....min. 80%
System Status.....OK
GPS Quality (GPS Mode).....≥ 4 bars

STARTING MOTORS

Flight Mode.....Selected
Left Control.....Down
START/STOP Switch.....Press for 1s
Rotors.....Spinning

BEFORE TAKEOFF

Launch Area.....Clear
Wind Speed.....Verify within limits

TAKEOFF/CLIMB

GPS Mode

Right Control.....Centered
Left Control.....Full Forward
Left Control.....Centered

Height Mode

Right Control.....Centered
Left Control.....Full Forward
Left Control.....Centered
Right Control.....Compensate for Wind

Manual Mode

Right Control.....Centered
Left Control.....Full Forward
Left Control.....Reduce as Necessary
L/R Controls.....Adjust as Necessary

CRUISE

Flight Path.....Monitor
Speed.....As Required
Aircraft Batteries.....Monitor
GCS Battery.....Monitor
GPS Signal Quality.....Monitor

DESCENT

Flight Path.....Monitor
Landing Zone.....Ensure Clear

LANDING

Camera.....Horizontal
GPS Strength.....≥4 Bars
GPS Mode.....Active
Descend to Hover.....>10ft
Initiate Slow Descent.....~ 1ft AGL
Right control.....Centered
Left control.....Full Aft

AFTER LANDING

Engine Shutdown

Left control.....Full Aft
START/STOP Switch.....Press for 1s
Rotors.....Stopped

System Shutdown

Payload Power.....Off after 10s
UAS Power Switch.....Press & Hold
Touchscreen Tablet.....Off
GCS Power Switch.....Press & Hold

Post-Flight Check

Aircraft Batteries.....Remove
GCS Battery.....Remove
GCS Antenna.....Stowed for Storage
GCS Shoulder Harness.....Removed

SECURING AIRCRAFT

Aircraft Condition.....Inspect
Aircraft & GCS.....Stowed in Case
Batteries.....Stowed in Case
Logbooks.....Complete

-----End of Checklist-----