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...............................Installed

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 Area............................Clear

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

Height Mode

Right Control..............................Centered

Left Control.................................Full Forward

Right Control..............................Centered

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

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