

VECTOR™ & SCORPION™ QUICK-START-GUIDE

It is safety-relevant to strictly follow the Quick-Start-Guide

FLIGHT PLANNING

Weather Conditions

- Wind: max. 10 m/s (19 kn) – Scorpion
- Wind ground: max. 10 m/s (19 kn); Wind in flight: max. 12 m/s (23 kn) – Vector
- Temperature: -19°C to 44°C (-2°F to 111°F).
- **Do not fly in heavy rain or icing conditions.**

Check

Batteries

- UAV Battery Packs (fully charged)
- Data Link Handheld
- Skynav Tablet

Charged

Charged

Charged

Firmwares

Updated

QBase Software

Updated

Mission Planning (optional)

Check

UAV ASSEMBLY

Set up Skynav Tablet and open QBase

Check

Set up the Data Link Handheld / Station and connect it to the Skynav Tablet

Check

Check the UAV for Damages (e.g. surfaces, propeller)

Check

Magnetometer (See Usermanual Chapter 11)

Calibrated
to location

All parts assembled and locked

Check

Battery packs connected (UAV will start automatically)

Check

Airspeedsensor (free of foreign objects or dust)

Check

EO/IR Strobes activated (if required)

Check

TAKE-OFF

Datalink Connection



Established

Sensor detected (in QBase)

Check

QBase final Check

Obstacle Clearance in Reality

Check

- No obstacle within a radius of 20 m around Home Waypoint
- Re-/transition, Descent circle, Flight paths: altitude 8 - 10 m (26 - 33 ft) higher than obstacles

UAV Heading

Check

- Ensure the direction of the displayed UAV corresponds with the direction of the UAV on the ground
- Do not fly if the heading on the ground is not correct: **critical $\geq 10^\circ$**

Wind direction

Check

- Re-/transition is set against the wind direction!
- **Retransition with tailwind: per 1m/s tailwind ~ 10 meter deviation**
- Windcheck in the immediate surrounding
- Do not take-off in a wind sheltered area (lee) as turbulences may occur

Upload the Mission



Upload

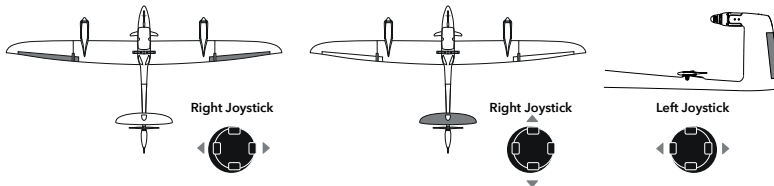
Preflight

Select

- Make sure the UAV is not moving during Preflight

Control surfaces (Aileron, Elevator, Rudder)

Check



Propeller & Take-off Area

Clear

- **Never arm with a damaged propeller!**

Arm

Select → Confirm

Motors running freely and tilted 90° upwards

Check

Take-off

Select → Confirm