

Functional system test

The functional system test verifies that the complete system is operating correctly.

All systems should be activated in the same way as they would be during a nominal operation, including GCS systems.

All potentially hazardous items (propellers, explosives, fuel, etc.) that are not required to verify system performance should be removed or secured.

This checklist may vary depending on the platform and systems installed, as it is only an example provided by Embention as an aid.

Therefore, each customer should have its own checklist.

"Sofware revision" checklist completed	
Ground systems revision	
Terminals (PCs, etc.)	
Graphic interfaces (<u>Veronte Ops</u> , etc.)	
Connections and wiring	
Antennas installed	
Physical interfaces (Stick, buttons, etc.)	
Communication systems revision	
Radiolink establishment	
Range and emitted power tests	
Diagnostic ports (USB, etc.)	
Caution: system calibrations should always be avoided. A sensor or actuator will only be calibrated during this test once an incorrect calibration has been checked and verified.	
Actuator systems revision	
Servos, motors, etc.	
Check the complete servo travel.	



For this test, the <u>lxVeronte PDI Calibration</u> software should be used

Check calibration/rigging.

For this test, the <u>IxVeronte PDI Calibration</u> software should be used

Check directions and directions of rotation

Verify absence of friction and vibration, continuous response

Peripherals revision

Connectivity

Telemetry

Sensors and estimators revision

PFD (Attitude, IMU)

Static pressure (Check reading with current atmospheric pressure)

Dynamic pressure (Check anemometer)

Yaw (Magnetometer)

GPS coverage

EKF (Estimate velocities, position, altitude)

Manual and assisted modes review and test

Verify stick connectivity and pilot inputs (Stick channels have correct values and direction)

Verify activation of manual modes

Verify controls in manual modes

Verify manual procedures (Start up, arming, disarming, etc.)