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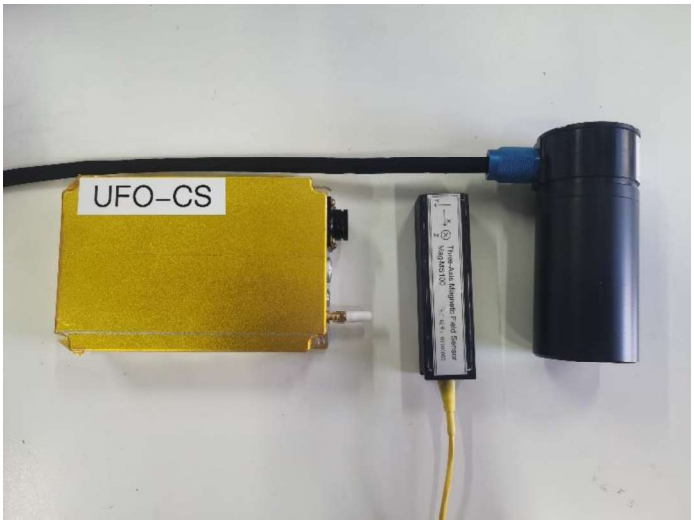
UFO-V20+: Specifications of Fixed wing vertical takeoff and landing aircraft - equipped with UFO-CS optical pump Magnetic measurement system

Aircraft Type： Vertical takeoff and landing fixed wing
fuselage lenth： 1660 mm
Wing Span： 3.2m
Maximum Load： <5 kg
Empty weight: 8.05kg
Takeoff Weight：<19.2kg
Power system: 6S, 22.8v, 25000mah * 2
Radio communication range: 30km
Endurance time: 180 minutes @ 1 kg load
90-120 min @ 4 kg load
Optimal Cruising Speed：20m/s（72km/h）
Maximum Cruising Speed: 30m/s（108km/h）
Wind Resistance：Level 6
Actual rise limit: 6000m
Flight capability: simulated ground flight
DGPS：RTK/PPK
Vertical positioning accuracy: 3cm
Horizontal positioning accuracy: 1cm + 1ppm
Take off site: land or shipborne (shipborne take-off and landing module is required)

UFO-CS: Specifications of Cs optical pump Magnetic measurement system



1.Data Acquisition System
Sampling Rate： ≤100Hz (selectable to user)
System White Noise：0.3pT
2.Fluxgate Probe Index Weight： probe 130g
Measuring Range： ±100 uT
Common Noise： ≤6-8pTrms/√Hz
3.System Index
Measuring Range： 15000 nT～105000nT
Dynamic Noise Level： ≤ 0.01nT
Line Repeatability： ≤1nT
Cross Point Repeatability： ≤0.8nT
Gradient tolerance: 40,000 nT/m.
Minimum resolving power (sensitivity): 0.6 pTrms/√Hz.
Reading resolution: 0.0001nT
ground static noise: should not exceed 3 pT at a bandwidth of 0.1 Hz to 1 Hz.
Probe orientation difference: ±0.5nT.
Multi-station consistency: less than 0.01nT
synchronization: GPS clock synchronization.
Operating temperature: -20 ℃ ~ 50 ℃
optical pumping magnetometer system complete weight: 1.5Kg (including battery)