

Category	<input type="checkbox"/> New Product <input type="checkbox"/> Maintenance & Service <input checked="" type="checkbox"/> Updates of Software <input type="checkbox"/> Updates of hardware <input checked="" type="checkbox"/> Other (Intensive Training Courses)		
Products	AXH-E230RS	Issue No	ATB-1811001
Client	Taiwan CGA	Issue Date	Nov, 2018

SUBJECT

1. Arrangement of more intensive training courses to the Coast Guard UAV team for the landing operating on the vessel.
2. Revised the Auto-Pilot firmware to V1.3.294 AVIX.

DESCRIPTION

- 1) On the UAV landing of ship deck executed by the crew members of CGA (South Branch) while operating the UAV's flying training course on 11th of Jan., 2019, the main rotor hit the tailboom and caused some damages to the drone. After careful investigation on the AP downloaded data, the main cause of the incident was: when the drone landing on the unstable deck due to the rough sea wave, though the flight controller throttle stick had been pulled to the lowest, the huge height difference of the deck misled the AP to judge the drone had not yet landing and thus fail to power off the drone. Apart from this, the drone was changing its pitch forward due to the rolling ship caused by waves, the flying system thus interrupted with commanding a backward pitch to the drone, and as a result, the main rotor hit the tailboom. (Relevant report please refer to AQR190111)
- 2) In avoidance of the incident, especially the execution of the UAV landing on the ship deck, the landing training has been reinforced and the members were taught to pull the throttle stick to the lowest AND switch the flying mode from "GPS" mode to "Manual" mode SIMULTANEOUSLY. Hence, the motor will be turn off automatically (as the throttle stick has been pulled to the lowest.)
- 3) We have upgraded a new flying control software targeted to renew all the UAV of the ships both at-sea and on-site : V1.3.294 AVIX, with the solution of landing on rolling deck. The flying control system had been renewed during the monthly maintenance on January.

REMARK



- Landing process SOP on the vessel
- 1) Pull Throttle stick to the lowest position
 - 2) Pull the light mode switch to the manual mode