

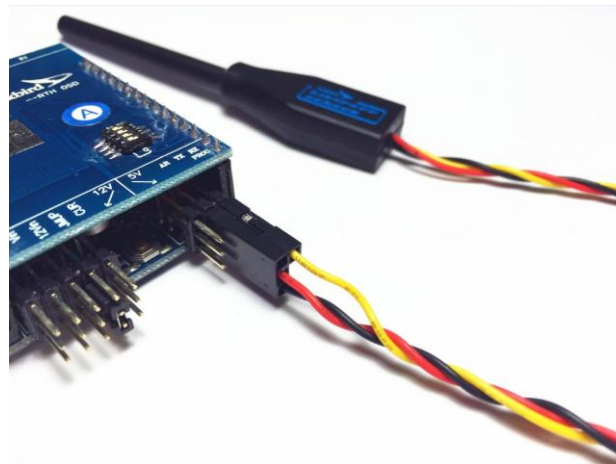


Please reference the Arkbird upgrade manual and send your serial number to us.

Any comments or suggestions, please send email to Arkbird@foxmail.com, thanks for your support.

V3.1028 upgrade contents:

1. Support Arkbird digital high-accuracy airspeed meter, connect the black and red wiring to the bottom two ports of the TX port. Then connect yellow wire on the top of RX port. Please see picture below:



2. The digital high-accuracy airspeed meter of Arkbird 2.0, can calculate the relative speed between the plane and air, which is different from GPS ground speed. As the air speed is a necessary condition for generation of lift force. Insufficient airspeed may cause stall. The airspeed meter collects the speed in front of the plane. As to flying in windy days or when flight is heavy-loaded, it will increase throttle when flying upwind and decrease when flying downwind

Extension wire can be used. Do not make the orifice get close to the motor so as to avoid airflow interference. After power on, it will be calibrated automatically within 10 seconds. During this period, do not touch the orifice.

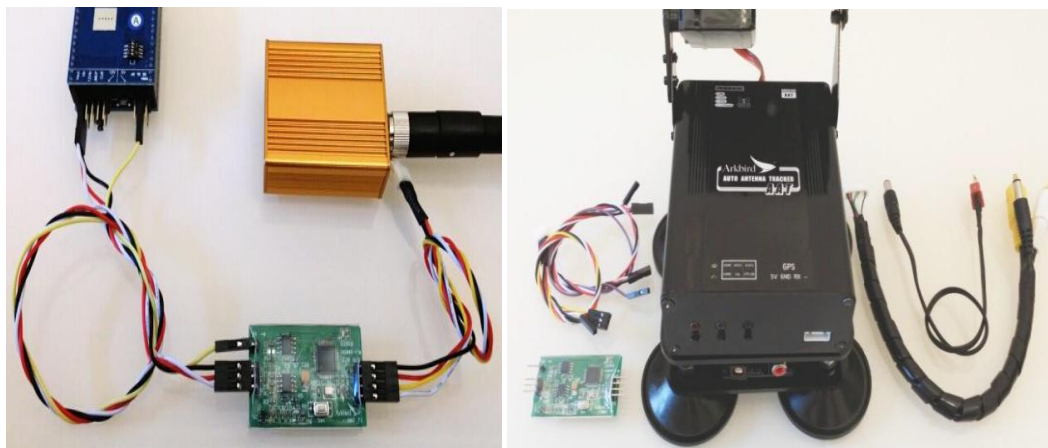
When the airspeed meter is connected, the OSD will display the airspeed A 0km/h. Under the RTH and waypoint mode, either air speed or ground speed is lower than the set "safe speed", Autopilot will increase the throttle proportionally.

3. Fence mode safe altitude default change to 25m, during the fence mode, lower than 25m will trigger RTH automatic.
4. Newly added the “Bi-motor Fly Wing” mix control, output 3.4 channel connect to flying wing's two motors for differential steering
5. Launch Assist mode will be closed automatic after takeoff, to prevent taking off control involved when landing.



Arkbird V3.1025 updates:

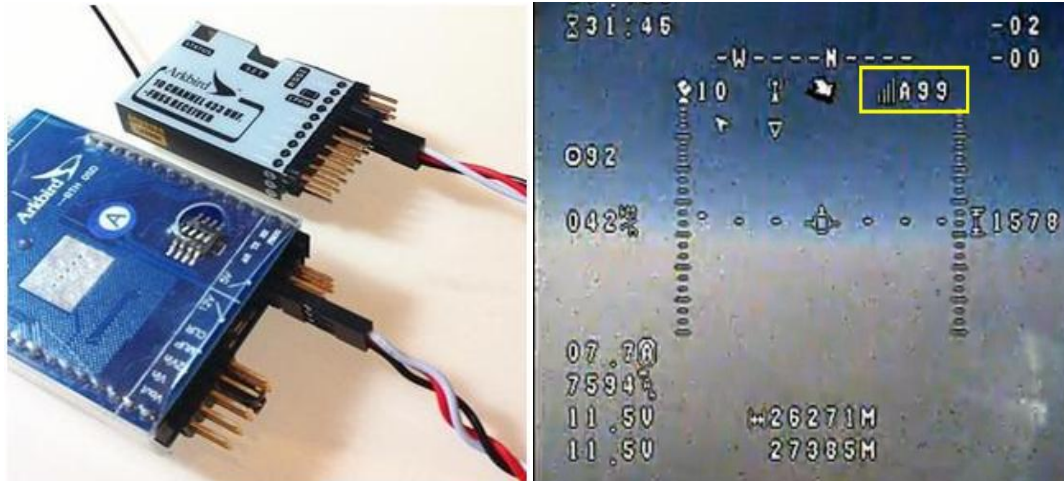
1. Optimize the fast-responding features of the PPM interface (AR interface);
2. Optimize mah calibration's effect on the display value of current, improving its accuracy;
3. When in the critical state of losing satellites' signals, Arkbird will not update the coordinates under four satellites signals and more reliable for returned flight.
4. The TX port will directly output data from GPS module, Output format and speed is the same as GPS module, which is more convenient to connect Arkbird AAT(Auto Antenna Tracker).



Arkbird V3.1020 updates:

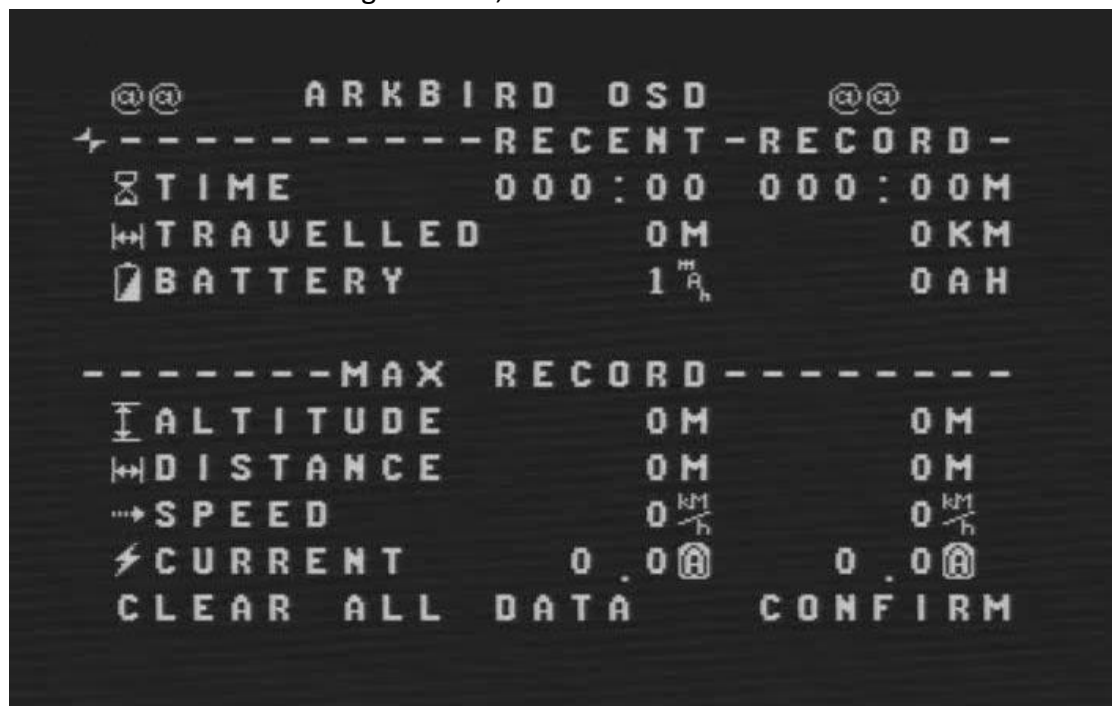
AR port can be used as PPM input interface, support for Arkbird UHF single wire transmission of 10 Channel value & RSSI. (Automatic identification, have priority over RSSI function)

Arkbird OSD will automatically show RSSI value. (Only for Arkbird UHF)



1. "Flight Record" is optional on the main menu to record the time, voyage, data of power consumption and various maximum records of the flights.

"RECENT" means current flight record, "RECORD" contains the total record.

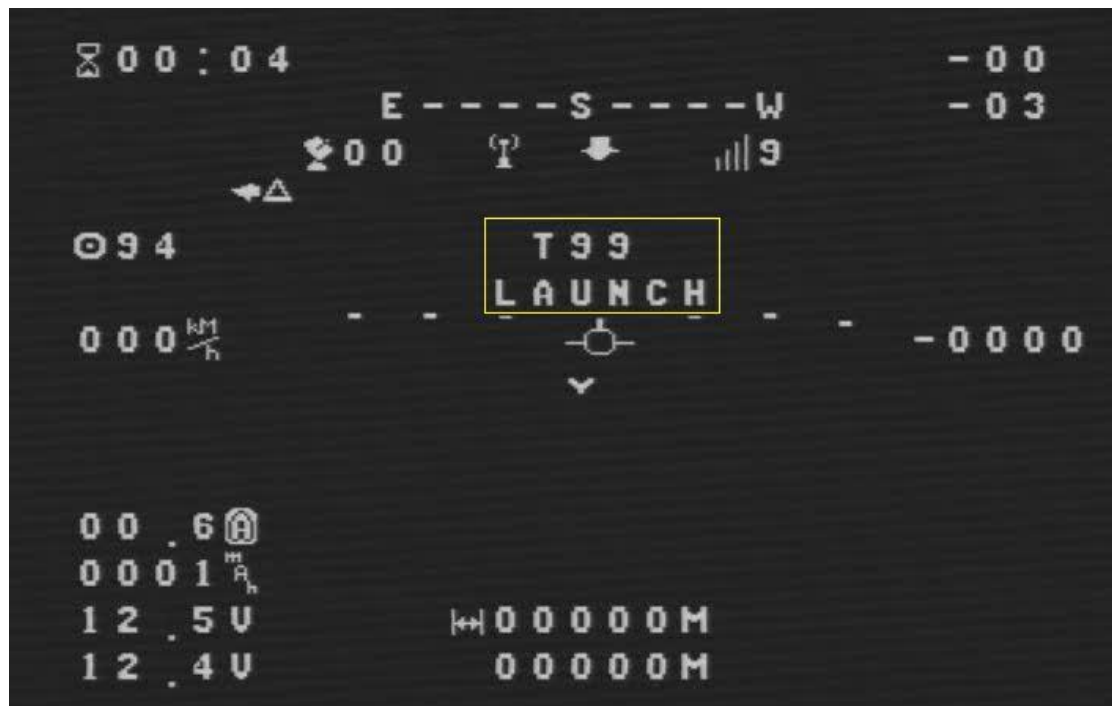


2. It is newly endowed with "Launch Assist" function which can help to control throttle and reduce the difficulty of take-off in manual throwing process. Switch to balance mode, and the throttle will not be started, OSD displays "T throttle's volume" and "Launch" tip (as is shown below), which means launch assist will occur.

Run up with aircraft in hands, when the speed is higher than 5kmph, the throttle will start

output and automatically control the take-off.

Note: This function can only be started when more than 6 GPS satellites are available. In order to ensure safety, in run-up process, lower the throttle stick, lower the aircraft head down 35° or stop the run-up, throttle will be disabled. When the aircraft flies above 15m high, or more than 100 m away, launch assist will be disabled and throttle will under normal control.

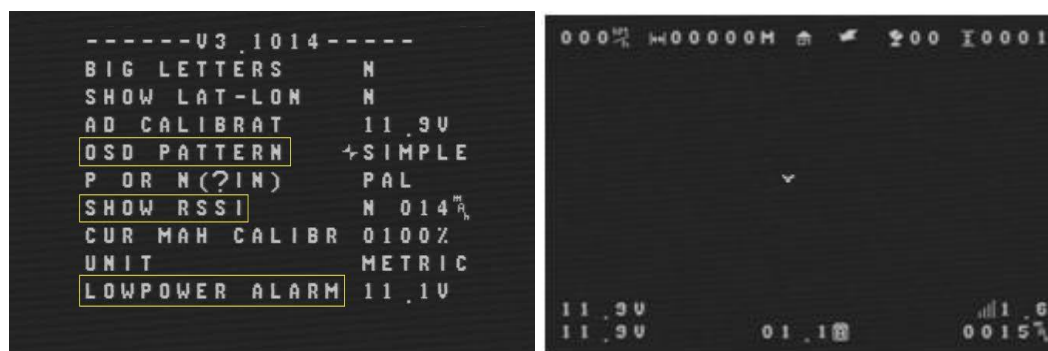


3. "Dir Only" in "Lock Dir/Heig" of CTL menu is optional. In this mode, direction will be fixed controlled but no height lock control; this function could be used for climbing-up flight.

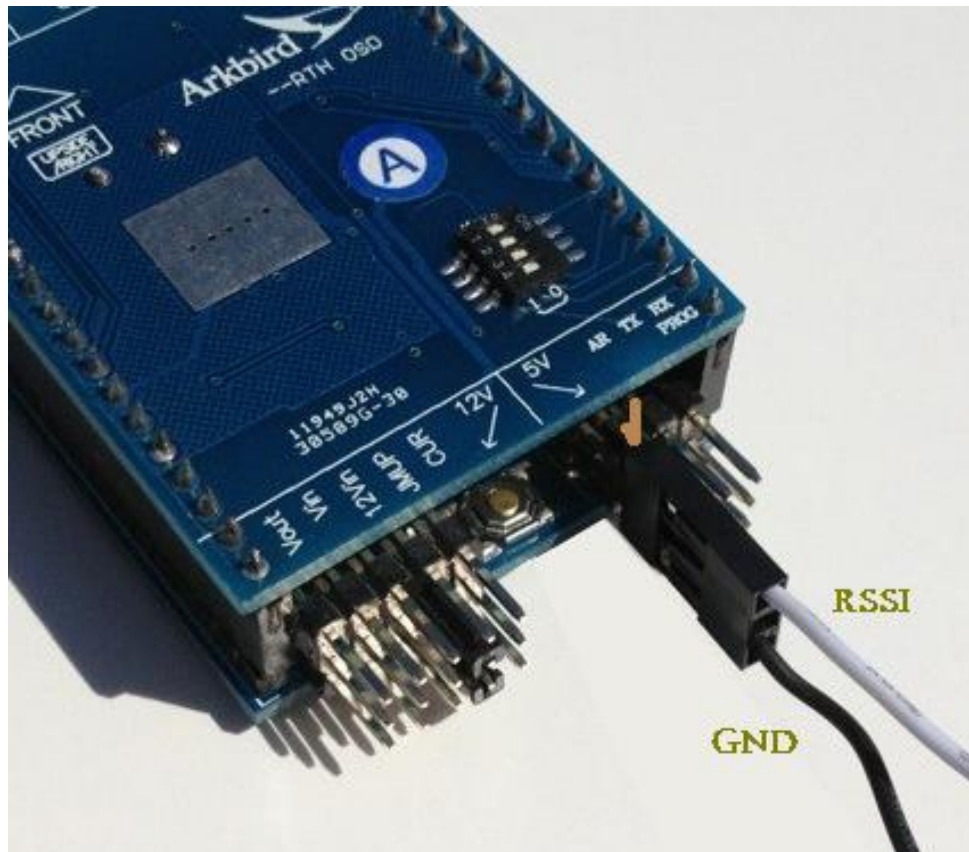
4. V tail mixing control is optional. In the Flight Parameters menu, the fourth option "Mix" is set as "Vtail" activation, mixing control by 2nd and 4th channels. The 2nd channel should be wired with the left wing of V tail, and 4th channel with the right V wing.

Note: After V tail mixing control is started, delta wing mixing control will be disabled, and it cannot be started by pulling the switch 4.

5. "Simple interface" is optional in OSD menu "OSD pattern", this interface is as follows:



6. "Show RSSI" is optional in OSD menu, RSSI voltage from radio's receiver to Arkbird RSSI (AR) port, can be displayed on screen.



(Warning: Since the RSSI voltage, ground (GND) requires opening and welding wire from the radio receiver, it may cause permanently damage to the receiver, OSD or other device!)

7. "Low Power Alarm" is optional in OSD menu; Power voltage below this value will cause flash OSD alarm.

8. OSD 12V voltage below 11.1V will flash OSD alarm.

9. On the upper left of the OSD, "Fly time" increases when altitude above 10 meters, instead of when the throttle is greater than 10%,

10. "Unit" is optional in OSD menu, metric m (m, km/h) and imperial F (feet, Mil/h) unit selectable.

These updates are only OSD Interface changes, to meet foreign users' habits, NO change in navigation system & control section.

Old users can do update referring to the Arkbird update manual.