

V1.0

Heison 5X V2 & Heison 5D V2

04 Air Unit Pro & Analog VTX 1.3W

8S 1500KV & 6S 1850KV

Thanks for buying this product! Please read the instructions carefully before use and strictly abide by the specified operating instructions. Users must have a certain electronic foundation and good welding skills. Wrong use may cause personal injury and equipment damage. We do not assume any liability arising from the use of this product or unauthorized modifications to the product, including but not limited to liability for incidental or indirect losses.

CE

FC

RoHS

REACH

1. ARM & Modes

1. Please check the Modes tab of Betaflight and test each switch of function; The corresponding function will be turned on when the yellow cursor gets moved to the set range.

Website: <https://app.betaflight.com/>

2. The default motor rotation direction is not reversed, please remove all propellers before testing.

Motor direction id reversed

3. GPS rescue is enabled by default, and the function of automatic return and landing is available when the remote control fails. Please be sure to unlock and take off after the GPS reaches 8 satellites. Note: The rescue function will not be triggered if the VTX is lost, and it needs to be triggered actively.

Ports

Other Features

AIRMODE

GPS

INFLIGHT_ACC_CAL

LED_STRIP

OSD

SOFTSERIAL

Permanently enable Airmode

GPS for navigation and telemetry

In-flight level calibration

Multi-color RGB LED strip support

On Screen Display

Enable CPU based serial ports

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4. If you need to trigger the return home actively, please add the remote control channel in the Modes tab for GPS RESCUE. Note: Please start it when you are more than 15 meters away from the drone, otherwise the drone will lock and crash directly.

ARM

ANGLE

GPS RESCUE

5. In BF Expert Mode, you can enter the Failsafe tab and modify the parameters.

Gyro

Accel

Mag

Baro

GPS

Sonar

Dataflash: free 16.0MB

Enable Expert Mode

GPS Rescue

Maximum altitude

Altitude mode

10

Initial climb (meters)

50

Return altitude (meters) - only applies in Fixed Altitude mode

7.5

Ascend rate (meters/second)

7.5

Return ground speed (meters/second)

40

Maximum pitch angle

20

Descent distance (meters)

1.5

Descent rate (meters/second)

1100

Throttle minimum

1700

Throttle maximum

1275

Throttle hover - IMPORTANT: set this value accurately

15

Minimum distance to home (meters)

8

Minimum satellites

Allow arming without fix - WARNING: No fix = disarm on failsafe!

Failsafe only

Sanity checks

Save and Reboot

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2. Projector And Cooling Fan

1. The switch is located at the tail of the Heison5. Push the button to the right to turn it on, and push it to the left to turn it off; No. 1: cooling fan, No. 2: projector

2. Replacing the Projection Slides

(1) Remove the upper cover and overhead cover of the aircraft, and be sure to secure the USB extension cable

1

2

3

4

5

(2) Take out the lampshade of the projector, and then take out the film clip of the projector

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(3) Replace the slide inside the holder, and reassemble it back to its original position.

(4) Install the projector

3. 04 Air Unit Pro Binding

Make sure that all devices have been updated to the latest firmware versions before linking.

The following example shows how to link the DJI Goggles 3 and DJI FPV Remote Controller 3.

A

B

Figure A: Linking Goggles and the Air Unit

1. Power on the air unit, the goggles, and the remote controller. Enter the goggles menu, select Status, and click the upper right corner to select the controller.

2. Make sure the linking status indicator of the air unit is red. Press the link button once, the linking status indicator blinks red. Press the link button on the goggles. The goggles will start to beep continually.

3. Once linking is successful, the linking status indicator of the air unit turns solid green. The goggles stop beeping and the live view will be displayed.

Figure B: Linking Goggles and Remote Controller

1. Activate the linking status on both the goggles and the remote controller. The goggles starts to beep continually. The remote controller starts to beep continually and the battery level LEDs blinks in sequence.

2. Once linking is successful, the goggles will stop beeping and display the live view, and the remote controller will stop beeping.

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4. VTX 1.3W Settings

CH

FR

CH1

CH2

CH3

CH4

CH5

CH6

CH7

CH8

A

B

E

F

R

1time

2times

3times

4times

5times

5865

5845

5825

5805

5785

5765

5745

5725

5733

5725

5771

5790

5809

5828

5847

5866

5705

5685

5665

5645

5885

5905

5925

5945

5740

5760

5780

5800

5820

5840

5860

5880

5658

5695

5732

5769

5806

5843

5880

5917

off

on

Red

on

1time

2times

3times

4times

5times

Power

PIT

25mW

200mW

400mW

800mW

1300mW

5. Frequency And Power Control Methods.

1. Adjust the graph transmission frequency and power by Betaflight.

Please set the VTX band and channel that matches your goggles. The default setting Low Power Disarm is On.

We recommend using Low Power Disarm to prevent VTX transmitter overheating during standby before

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2. Adjust the graph transmission frequency and power by pressing the button

(1) Select CH: Simple short press, change the CH(CH1-CH8)

(2) For the EDGE TX remote controller, power on it, and long press the sys button to access Toodle interface, FR(A-B-E-F-R).

(3) Select Power: Press the button 6 times until red light(R) flashing, then short press again, change the Power(25-1300mW).

6. Receiver Binding

TBS Nano RX:

1. Press and hold the bind button of the TBS Nano Rx receiver, and power on the quad at the same. Release the bind button, the green light on the receiver starts to blink rapidly. Then long press the bind button again for 8 seconds until the green light goes off and the red light blinks slowly. At this time, a dialog of "Update Micro TX?" will show up on the radio screen, select "ENTER".

2. It will bind automatically after updating. When the binding succeeds, screen will show "Binding OK", and the receiver will show a solid green light.

ELRS Receiver:

1. Power on and off the drone three times, enabling the receiver to enter binding mode. When LED of the receiver flashes quickly twice, it indicates that the receiver has entered binding mode.

2. For the EDGE TX remote controller, power on it, and long press the sys button to access Toodle interface, slide the cursor down, select ExpressLRS, and then select Bind and Press ENTER.

3. When the receiver has a solid LED on, it indicates that the binding is successful.

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7. Checking Before Flying

1. Please conduct an inspection for the drone. Check if there are broken parts or damage, and please conduct further check or repair if needed;

2. Please confirm whether the propellers are in the correct direction, and whether screws are locked;

3. Please check if battery is fixed by the strap. To adjust or fix it for balance in case that it gets hit by propellers;

4. Please check the battery voltage. When the battery is fully charged, it should be 16.8V for a 4S, 25.2V for a 6S, 33.6V for a 8s;

5. Turn on the controller and select the correct model. Please make sure that the arming switch is "disarmed" and the throttle is in the lowest position;

6. Turn on the FPV Goggles or screen to check whether there are interference;

7. After powering the drone, please test arming in a safe distance (at least 3 meters), and check whether propellers work normally;

8. Please take off in a safe area without people, and enjoy your flying!

8. Warranty Terms

1. For those performance faults caused by non-human factors within 3 months from the date of purchase, we provide repair & maintenance service for free. After 3 months, no labor fee will be charged for repairs. If you want to replace parts, you must pay for the cost.

2. Note: if you choose to fly close to water, please pay attention to the flight safety. It is difficult to salvage the Quadcopter when it falls into the water, and the water in the Quadcopter is not covered by the warranty.

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