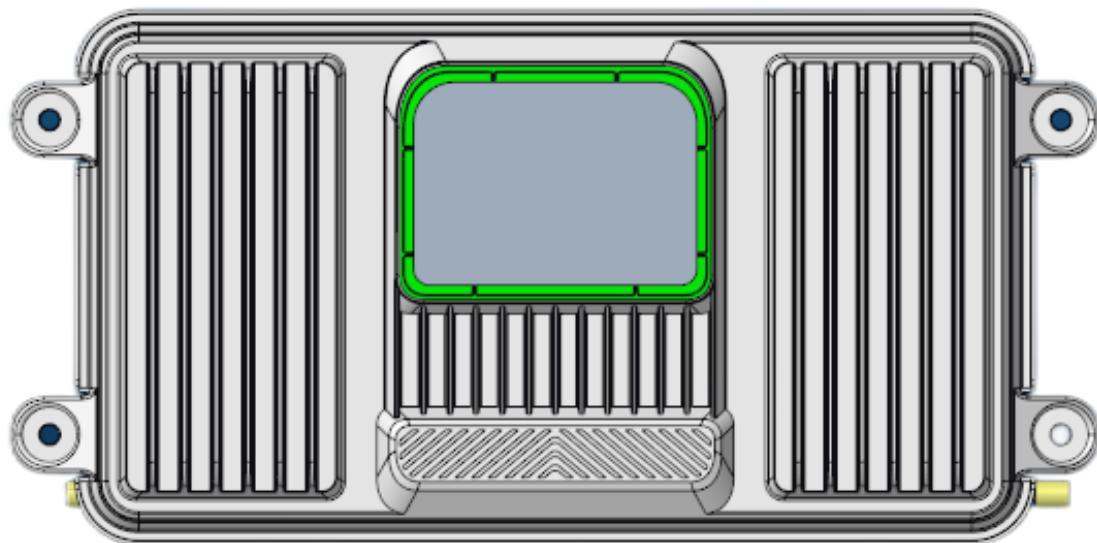


HC402 Avionics system

Instruction Manual

V1.0 2024.01

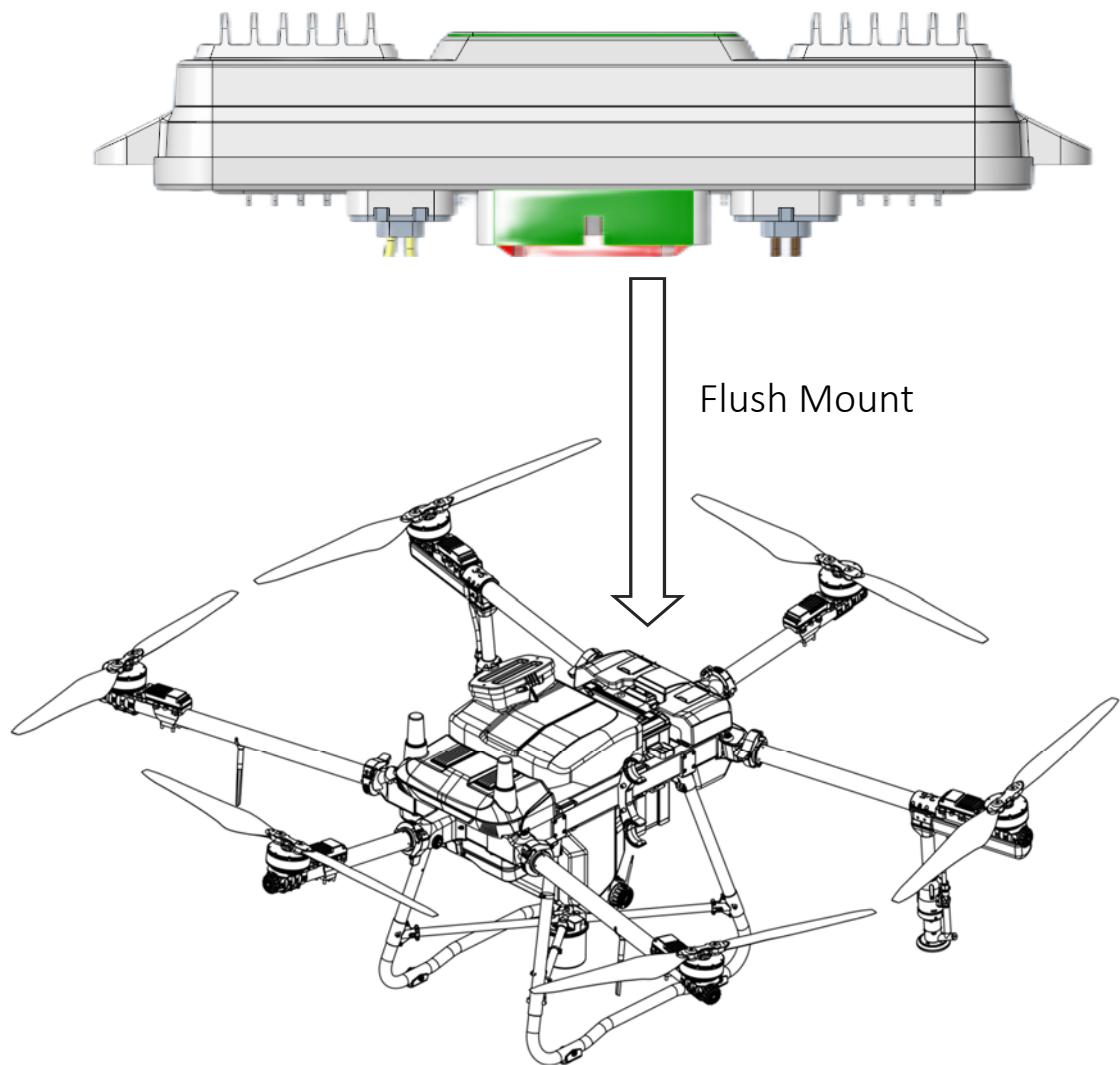


Heilongjiang Huida Technology Co., Ltd

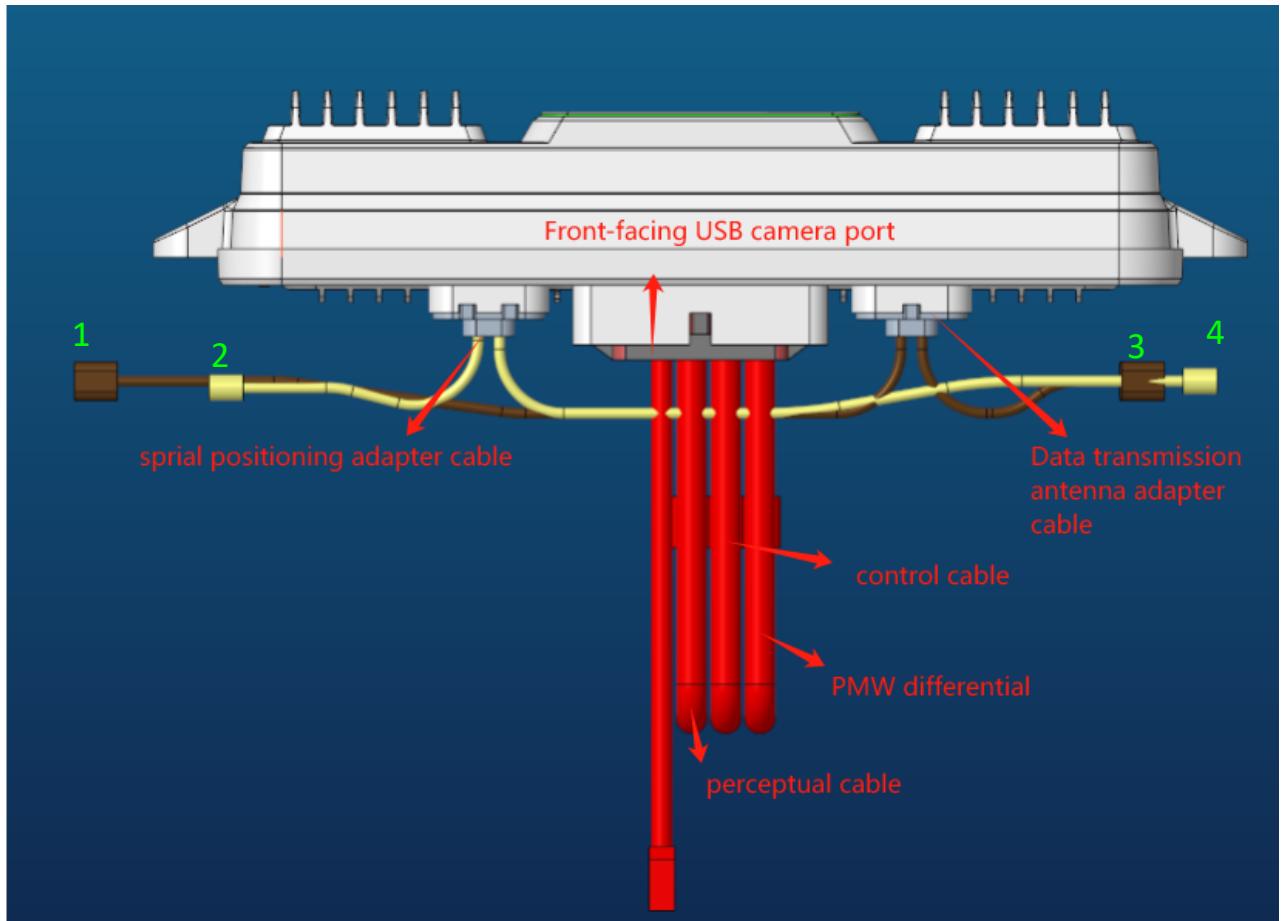
Product description

The HC402 avionics system integrates IMU, magnetic compass, GPS, dual-antenna RTK, image transmission and other modules into one, and is used for the operational flight control of Huida's agricultural unmanned aircraft. The system adopts a modular design, which is easy to install and debug. It has an all-aluminum alloy shell, efficient heat dissipation, and a fully sealed dust-proof and waterproof design, which can meet the harsh operating environment of agricultural scenes.

Product appearance picture



Interface connection diagram



- 1: Connected to GNSS Antenna
- 2: Connected to 2.4G/5G SRD Antenna
- 3: Connected to GNSS Antenna
- 4: Connected to 2.4G/5G SRD Antenna

Note: This main control product is only used for Huida agricultural drone products and requires professional personnel to connect, install and debug. It is generally not sold directly to end users.

Product specifications:

GNSS: BDS B1I/B2I

GPS L1/L2

GLONASS G1/G2

Galileo E1/E5b

Wi-Fi: B1: 5150-5250 MHz, B4: 5725-5850 MHz

(802.11a/n20/n40/ac20/ac40/ac80)

2.4G SRD: 2411-2466 MHz

5G SRD: Band 1: 5180-5240 MHz; Band 4: 5735-5805 MHz

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Contact number: 0086-0451-86612300

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

Note : This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates,uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.