The Zulu's operation description

The Zulu is a 4-channel remote controlled helicopter model that comes pre-assembled and ready to fly. The Zulu is operated in 2.4GHz ISM band with very low power, and it includes two parts: Transmitter is the remote controller; Helicopter model receives the control signals and flies.

Move the joysticks on the front of Transmitter, it causes the MCU produces a control signal after processing and radiates it through the antenna, which is soldered in the TX PCBA, also, there's a pseudo-antenna on the top of Transmitter for good appearance. The Zulu received the control signal through the antenna soldered in RX PCBA, and transmit it to MCU for processing, which then output a signal to control the motor and servo. Thus, the Zulu can be flying according to the movement of sticks in the transmitter.

The Zulu is a digital device, its analog ground and digital ground connected together for digital noise isolation.

The difficulties in learning to fly a helicopter are easily overcome with the contra-rotating blades, allowing the Zulu to hover effortlessly. The X-blades rotating in opposite directions cancels out the effect on torque and does not require any tail rotor. Stabilizing bars improve its ability to settle on its axis, improving its stability.

To further enhance the safety, there's also a throttle safe system (TSS), which allows the motor to start only when the throttle stick is at low power so there's no danger of connecting the battery and sending power to the motors instantly.

The low-power-safe (LPS) mode gradually reduces power to the main motor in the event of transmission failure.

Battery protection mode (BPM) will prevent motor and servo from activation when capacity is below 7V, to prevent full discharge on the battery.

During flight, the helicopter should continue last course of flight for 1 second during link loss and if the connection doesn't re-establish, LPS mode activates automatically.

The transmitter has been designed for precision helicopter flying and features user configurable servo reversal to cater to the needs of individual flyers.