

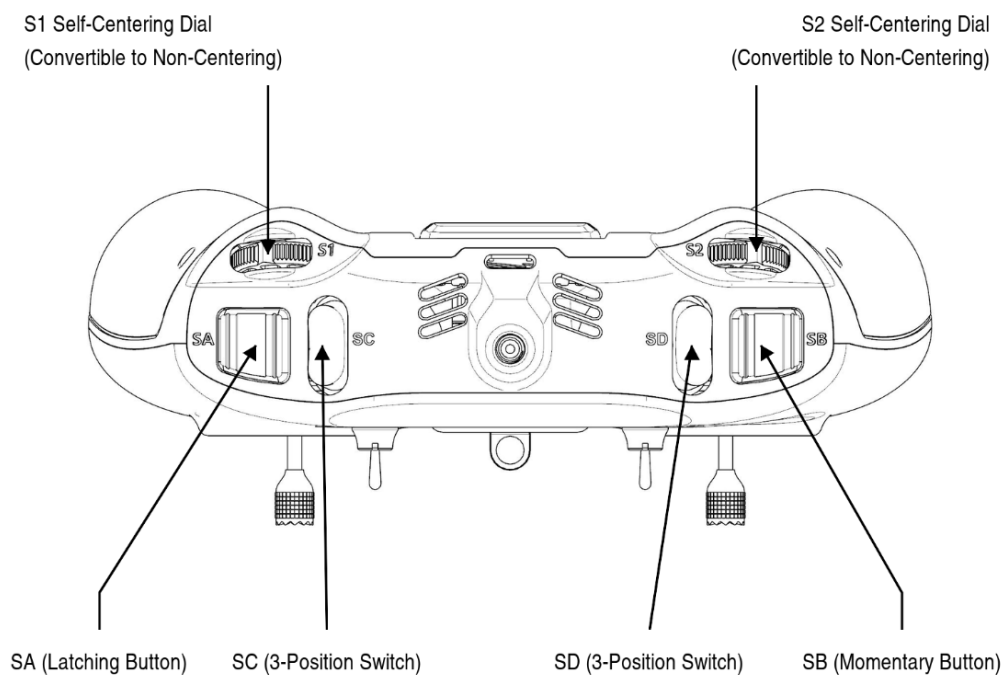
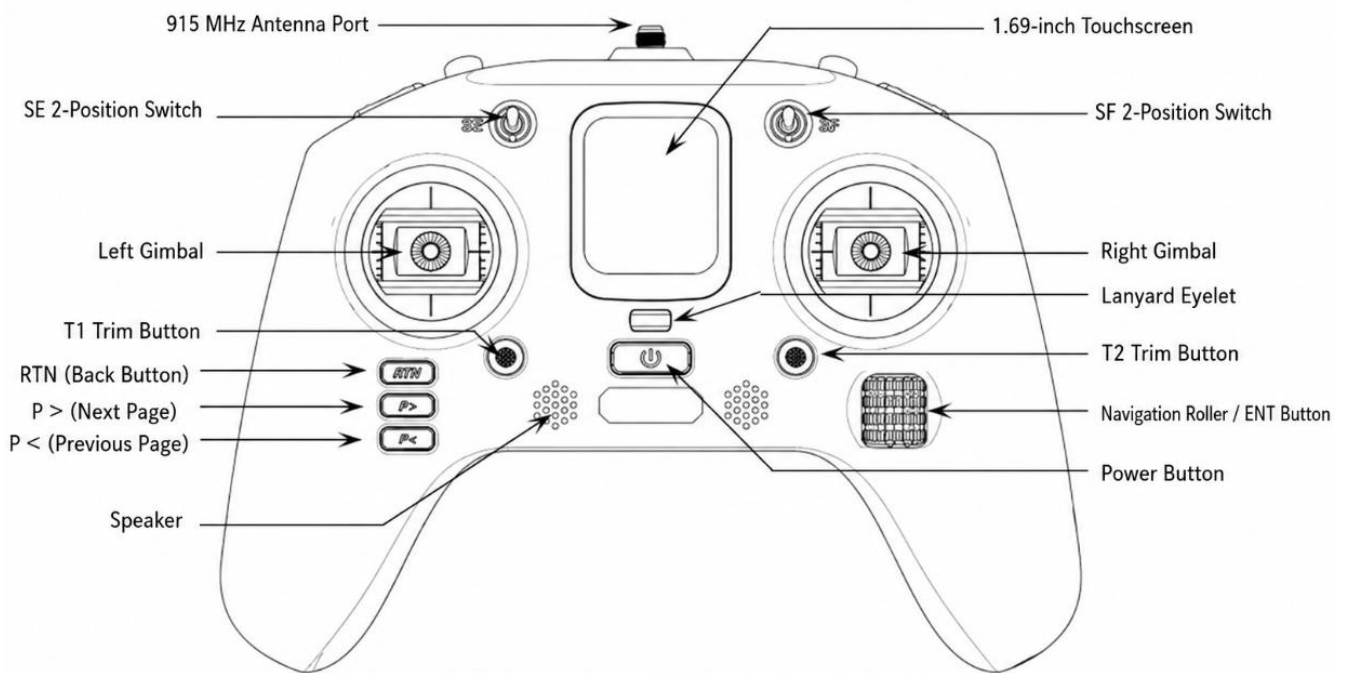
TBD

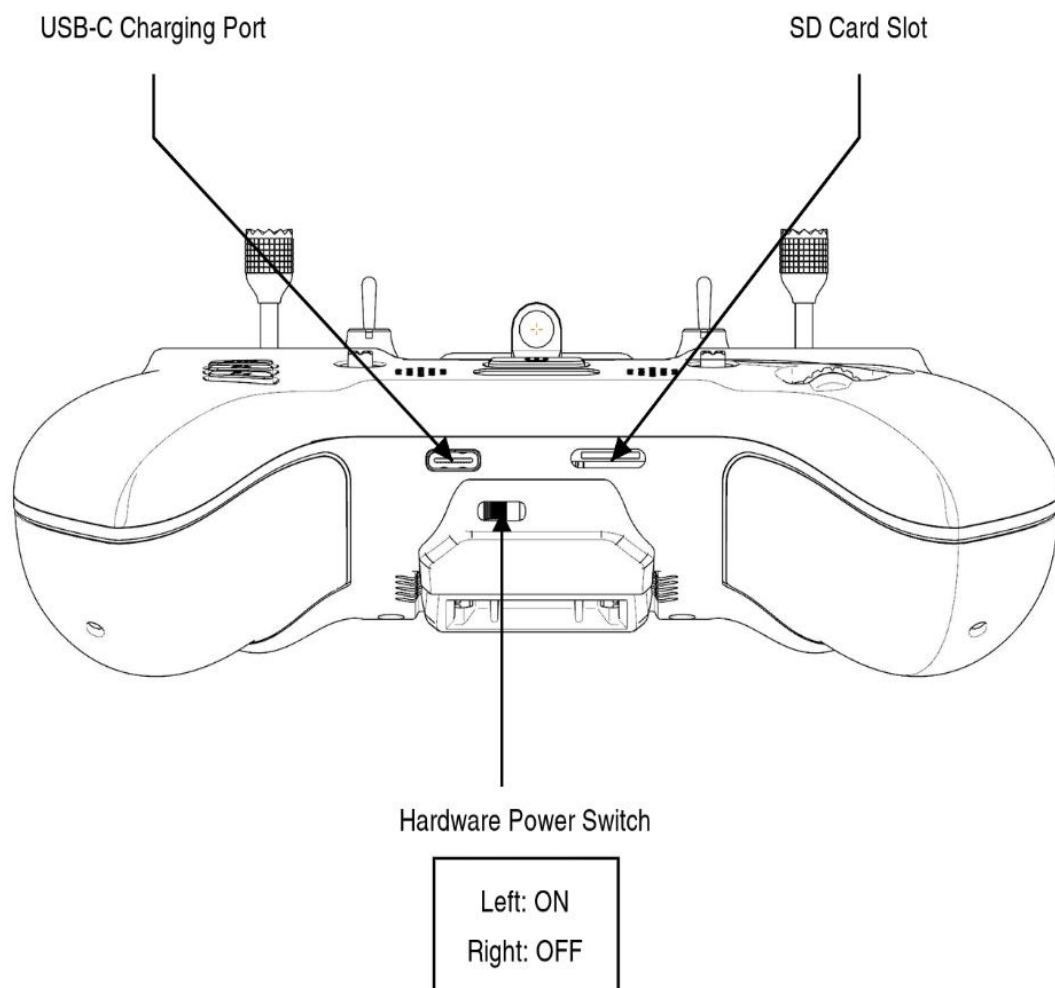


USER MANUAL

2.4 GHz + 915 MHz | ExpressLRS | Operating Voltage: 6.0-8.4 V DC

Controls and Interfaces





1. Specifications

Item	Specification
Product	EAGLET Radio Controller
RF Bands	2.4 GHz + 915 MHz
RF Module	Integrated ExpressLRS (ELRS)
RF Output Power	Up to 1,000 mW (adjustable)
Compatible Receivers	ExpressLRS receivers
Channels	Up to 16
Model Types	FPV multirotors, fixed-wing aircraft, gliders, helicopters, RC cars, boats, robots, etc.
Weight	387 g
Dimensions	180 x 135 x 72 mm
Storage	512 MB built in; supports SD cards up to 16 GB
Operating Voltage	6.0-8.4 V DC
Display	1.69-inch wide-view IPS capacitive touchscreen, 240 x 280 pixels
Antennas	Internal 2.4 GHz antenna; external 915 MHz antenna
Gimbals	Potentiometer gimbals with removable stick ends
Firmware Update	Wi-Fi OTA update supported
Battery	2 x 18650 cells, built in
Charging Port	USB-C (charging only)

2. Introduction

Thank you for choosing the EAGLET Radio Controller. This lightweight, gamepad-style radio transmitter features an ergonomic form for a secure, comfortable grip during extended use. It combines portability, reliable operation, and precise control for fixed-wing aircraft, FPV multirotors, helicopters, RC cars, RC boats, and other model platforms.

The name EAGLET means "young eagle" and represents agile control, effortless flight, and dependable endurance. It is designed for entry-level training, everyday flying, and recreational competition. Read this manual in full before use and follow all safety instructions.

Product upgrades may result in changes to this manual without prior notice. - The TBD Team

3. Safety Information

To protect users, equipment, and surrounding property, all operators must comply with the following requirements. The user assumes responsibility for damage or risk resulting from improper operation.

Operating environment: Do not operate over crowds, roads, airports, high-voltage power lines, construction sites, or areas containing flammable or explosive materials. Use an open, unobstructed model-aircraft site. Do not operate in rain, snow, strong wind, thunderstorms, fog, or haze.

Operator safety: Minors must be supervised by an adult. Keep clear of propellers, motors, and other high-speed moving parts. Do not modify internal circuits, antennas, or chips; unauthorized modification voids the warranty.

Operating procedure: Switch on the radio controller before powering the receiver. When shutting down, switch off the receiver before the radio controller. Before each flight, verify the gimbals, buttons, antennas, and RF link.

Regulatory compliance: Follow all applicable local rules. Do not conduct unauthorized flights, exceed permitted altitude limits, or operate beyond visual line of sight (BVLOS) where prohibited.

4. Battery and Charging

The controller contains two built-in 18650 lithium-ion cells and supports USB-C charging. Each cell has a nominal voltage of 3.7 V and a maximum charging voltage of 4.2 V. Use a regulated 5 V USB charger rated at no less than 2 A. Charging with the controller switched off is recommended.

Check battery voltage and condition regularly. Never charge unattended or near flammable materials. Do not charge the controller after water exposure or physical damage. TBD is not liable for consequences arising from misuse or failure to follow these instructions.

5. Powering On and Off

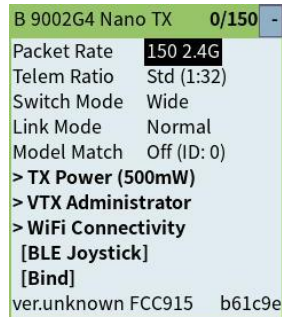
Power on

1. Move the hardware power switch to the left (ON) position.
2. Press and hold the Power button for 4 seconds. The RGB lights illuminate in sequence as the system starts.
3. Follow the on-screen prompt and press any key to dismiss it and enter the operating system.

Power off

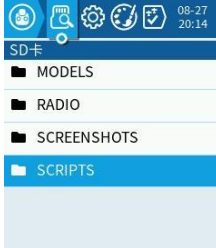
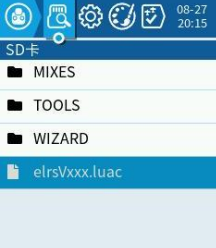
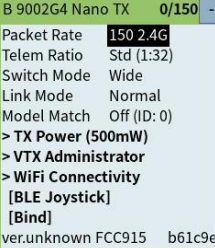
1. For safety, switch off the model receiver first.
2. Press and hold the Power button until the display turns off.

6. Binding the Receiver - Method 1



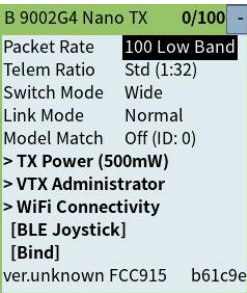
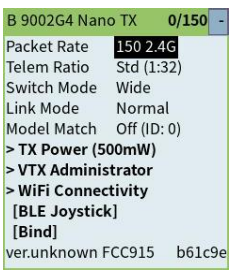
1. Press and hold P < (Previous Page) for 6 seconds to open the ExpressLRS Lua script.
2. Power-cycle the ExpressLRS receiver three times. A double-flashing LED indicates binding mode.
3. Select [Bind] on the radio controller to start binding.
4. A solid receiver LED indicates that binding is complete.

6. Binding the Receiver - Method 2

STEP 1	STEP 2	STEP 3	STEP 4
			
Press ENT; select System Settings.	Scroll down and open SCRIPTS.	Scroll down and run this script file.	Select Bind to enter binding mode.

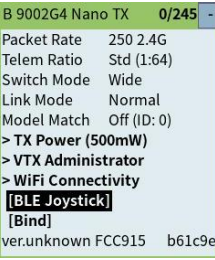
1. Follow the steps above to locate and run the ExpressLRS script file.
2. Power-cycle the ExpressLRS receiver three times. A double-flashing LED indicates binding mode.
3. Select [Bind] on the radio controller to start binding.
4. A solid receiver LED indicates that binding is complete.

RF Band Selection

915 MHz	2.4 GHz
	
Low Band supports binding to 915 MHz ExpressLRS receivers.	2.4 GHz mode supports binding to 2.4 GHz ExpressLRS receivers.

7. Using a PC-Based FPV Simulator via Bluetooth

1. Press and hold P < (Previous Page) for 6 seconds to open the ExpressLRS script file.
2. Select [BLE Joystick] to enable Bluetooth, then wait for pairing.
3. On the PC, add a Bluetooth device and select ExpressLRS Joystick.
4. After pairing, launch an FPV simulator on Steam, such as Uncrashed, DRL, or DCL.

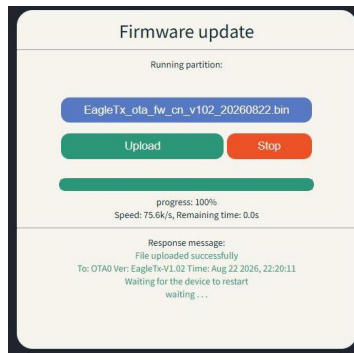
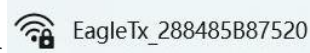
ENABLE BLUETOOTH	CONNECTION ACTIVE
	
Select BLE Joystick in the ELRS script.	Joystick Running confirms the active link.

8. Updating System Firmware via Wi-Fi



Hold both T1 and T2 trims downward while powering on to enter Wi-Fi update mode.

1. Hold both T1 and T2 trims downward, then press and hold the Power button. The display remains off and the RGB lights illuminate, indicating Wi-Fi update mode.
2. On the PC, scan for Wi-Fi networks and connect to the network shown by the controller.
3. Enter the Wi-Fi password: 123456789.
4. In a web browser, enter 192.168.4.1 to open the firmware update page.



1. Click the "EagleTx_ota_fw_cn_v102_20260822.bin" and choose the .bin firmware file supplied by the manufacturer.
2. Click "Upload" and wait until progress reaches 100%. Restart the radio controller to complete the update.

9. Product Warranty and After-Sales Service

Warranty period: 12 months from the date of purchase.

Warranty coverage: Manufacturing defects not caused by misuse or unauthorized modification are eligible for free repair or replacement once. Retain proof of purchase.

Exclusions: Impact damage, water ingress, unauthorized disassembly or modification, overload, normal wear and tear, and damage occurring after the warranty period are not covered.

Support: For functional faults, operating questions, or parameter-configuration assistance, contact official TBD customer service. We will respond as soon as possible during business hours. Thank you for your patience.



Customer Service (WeChat) - Please include a brief note with your inquiry.

E-mail: sophie.beastdynamics@gmail.com

Business Hours: Monday–Friday, 9:00 a.m.–6:00 p.m. (UTC+8)

FINAL NOTICE TBD reserves the right to upgrade the product, optimize specifications, and revise this manual. Product functions and specifications are subject to the actual product. Version: V1.2 | Updated: 3 September 2026