



GX15

2.4 GHz ExpressLRS radio transmitter
User Manual



Please read this manual carefully before first use, especially Chapter 2 — Safety information. Batteries are not included.

Importer: Rotorama, s.r.o. · www.rotorama.cz

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1. Introduction

Thank you for choosing the RadioMaster GX15, a versatile 2.4 GHz remote control system. Whether you're a beginner or a seasoned professional, the GX15 is designed to meet your needs, offering precision, flexibility, and reliability.

► Firmware and firmware updates

The GX15 is pre-installed with factory approved EdgeTX firmware. Please only attempt to update the firmware if you are confident in the process — incorrect firmware updates may cause the remote control to become inoperable. Follow the links below for more detailed guides, the latest software manual, firmware updates, and additional resources:

- Manufacturer's website: www.radiomasterrc.com
- EdgeTX radio firmware: www.edgetx.org
- ExpressLRS RF firmware: www.expresslrs.org

— *The RadioMaster team*

2. Safety information

Many remote-control models are equipped with powerful motors and sharp propellers. When using or maintaining models, proceed with caution. When performing assembly or maintenance, make sure to disconnect the power to the model and remove the propellers.

Do not operate the GX15 remote control system under the following conditions:

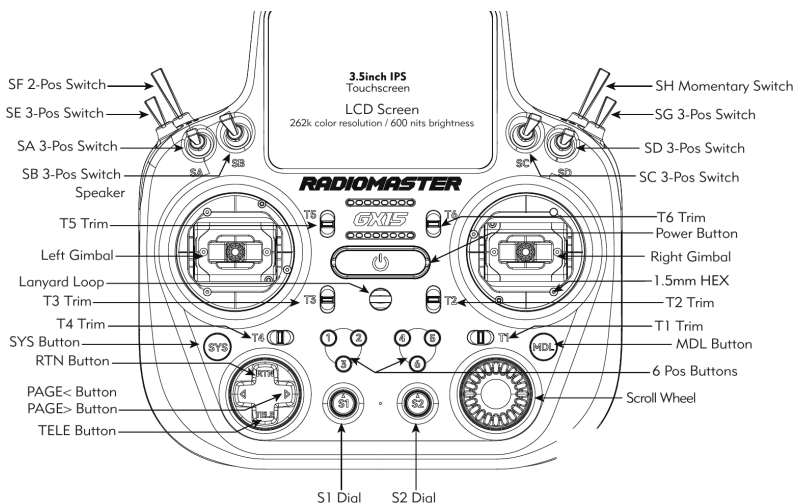
- In severe weather or strong windy conditions, such as rain, hail, snow, storms or electromagnetic environments.
- In any situation where visibility is limited.
- In areas where people, property, high-voltage power lines, public roads, vehicles or animals may be present.
- If you feel tired or unwell, or under the influence of drugs or alcohol.
- If the remote control or model seems to be damaged or not working properly.
- In areas with high 2.4 GHz interference or where 2.4 GHz radio is prohibited.
- When the radio's battery voltage is too low to be used.
- In areas where local regulations prohibit the use of models.

RadioMaster does not assume any responsibility for any adverse consequences caused by the use or misuse of this product.

3. Device overview

3.1 Front side

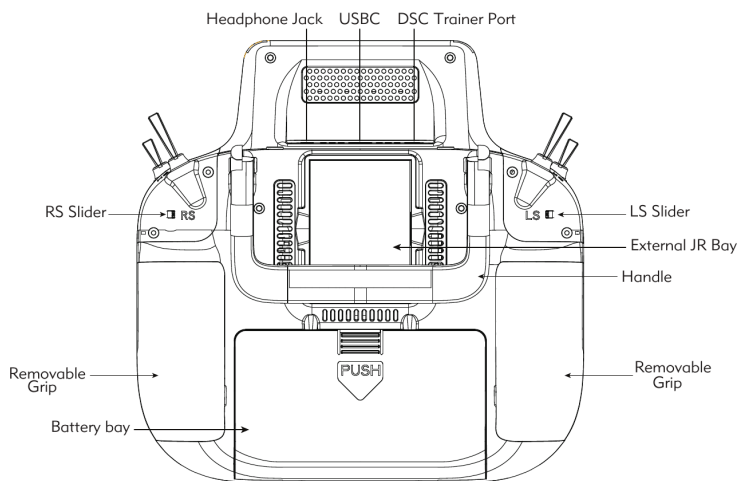
On the front side there are two gimbals with trims T1-T6, three-position switches SA, SB, SC, SD, SE and SG, the two-position switch SF, the momentary switch SH, and the S1 and S2 dials. Below the display you will find the six position buttons, the SYS, MDL, RTN, TELE, PAGE< and PAGE> buttons, the scroll wheel and the power button. The 3.5" IPS touchscreen offers 262k color resolution and 600 nits brightness. On the bottom there is a lanyard loop and the speaker.



Controls on the front side of the transmitter

3.2 Rear side

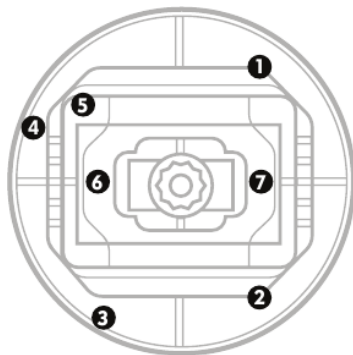
On the rear side you will find the headphone jack, the USB-C port, the DSC trainer port, the RS and LS sliders, the external JR module bay, the handle, the removable grips and the battery bay — its cover opens by pressing the area marked PUSH.



Rear side of the transmitter

3.3 Mechanical gimbal adjustment

Stick travel, tension and self-centering can be adjusted on both gimbals. The adjustment screws are accessible with a 1.5 mm hex key; their locations are shown in the figure and their functions are described in the table.



Gimbal adjustment points

Point	Function	Screw rotation
① ②	Up / down travel (38–54°)	CW to decrease the travel, CCW to increase
③	Vertical tension (up–down)	CW to increase the tension, CCW to decrease
④	L-R Mode-1, 2	CW to disable stick self-centering, CCW to enable
⑤	Horizontal tension (left–right)	CW to increase the tension, CCW to decrease
⑥ ⑦	Left / right travel (30–56°)	CW to decrease the travel, CCW to increase
T	Throttle tension	CW to increase the tension, CCW to decrease

4. Specifications

Overview of the GX15 specifications according to the manufacturer:

Model	GX15
Size	199 × 197 × 94 mm
Weight	605 g (GX15) / 672 g (GX15 MAX), without batteries
Operating frequency band	ISM 2.4 GHz (2400–2483.5 MHz)
Max current	875 mA
Voltage range	6.6–8.4 V DC
Radio firmware	EdgeTX (factory approved)
RF firmware	ExpressLRS
Gimbal stick thread	M4
Gimbals	V6 or AG02
Control distance	max 2 km (RX dependent)
Channels	max 16 (RX dependent)
Battery options	2S Li-Po 7.4 V, or 2× Li-ion 18650 3.7 V
Display	3.5" IPS touchscreen, 262k colors, 600 nits
External module	JR bay
Firmware upgrade	via USB

5. Batteries and charging

Batteries are not included. The GX15 is powered either by two Li-ion 18650 cells (3.7 V) or by a 2S Li-Po 7.4 V battery pack; the supply voltage range is 6.6-8.4 V DC.

The GX15 has a built-in USB-C charging function for lithium cells with a nominal voltage of 3.7 V. The charging circuit is only designed to charge 2× Li-ion 18650 3.7 V or 2× Li-Po 3.7 V cells (a 2S 7.4 V battery pack). The nominal cell voltage is 3.7 V, the fully charged voltage is 4.2 V per cell (full 2S pack: 7.4 V nominal, 8.4 V fully charged).

DO NOT use LiFe battery packs or 18650 lithium-ion cells with a nominal voltage of 3.6 V and a fully charged voltage of 4.10 V. Charging the incorrect type of battery may damage the charger or cause a fire.

- If using Li-ion cells, ensure the cells are **not protected** (without a protection circuit) and are **button-top** cells (with a raised positive contact).
- Please check the voltage and condition of the batteries regularly.
- Never charge unattended. Always charge in a safe area away from combustible materials.
- Refrain from charging if the remote control gets wet or damaged in any way, or if the cells have been inserted with reversed polarity.

6. RF system and antennas

The GX15 features dual 2.4 GHz Semtech SX1281 transceivers, supporting both Gemini and antenna-switch modes to improve link reliability.

The system includes two integrated antennas with different orientations to enhance signal coverage:

- **Antenna 1** — horizontal orientation, mounted along the top edge of the screen bezel.
- **Antenna 2** — vertical orientation, mounted along the right side of the screen bezel.

The GX15 supports multiple RF operating modes:

- **Gemini** — transmits two identical packets simultaneously on different frequencies for maximum link redundancy.
- **Antenna Switch mode** — alternates transmissions between Antenna 1 and Antenna 2 to take advantage of both horizontal and vertical polarization.
- **Antenna 1 / Antenna 2 modes** — allows operation using a single selected antenna, disabling the other; intended for specific use cases and testing.

Antenna selection and RF mode configuration can be managed through the ExpressLRS LUA script. For best performance, ensure antenna settings are appropriate for your environment and use case.

► Transmit power and RF exposure

GX15 transmitters supplied by the importer are the **LBT (Listen Before Talk)** version intended for the EU market. The device operates in the 2400–2483.5 MHz frequency band with a maximum radiated power of **100 mW (20 dBm) e.i.r.p.** in accordance with the regulations applicable in the European Union; this limit must not be exceeded, including by changing the transmit power setting.

When operating the transmitter, please maintain a separation distance of at least 20 cm between the antennas and your body (excluding fingers, hands, wrists, ankles and feet). The manufacturer states this distance as a condition for meeting RF exposure safety requirements.

► Manufacturer's simplified EU declaration of conformity

RadioMaster declares the radio equipment GX15 is in compliance with Directive 2014/53/EU.

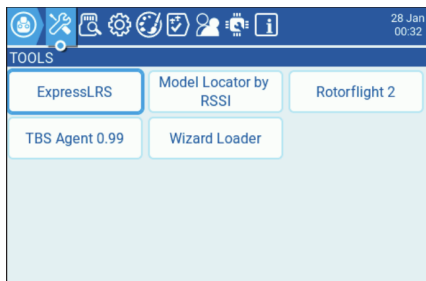
Manufacturer: ShenZhen RadioMaster Co., Ltd, 3th Floor, Yangtian Building, No. 18 Yangtian Road, Xin'an Street, Baoan District, Shenzhen, Guangdong.

7. Protocol selection and binding

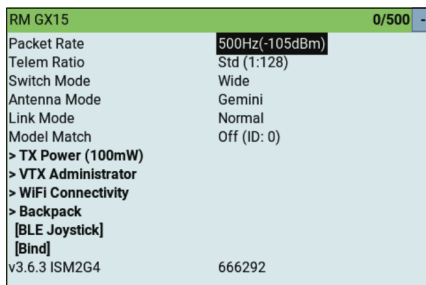
The GX15 is equipped with a built-in 2.4 GHz ExpressLRS RF module, offering compatibility with a wide range of 2.4 GHz ExpressLRS receivers.

► Packet Rate selection

Select the appropriate Packet Rate based on the receiver type. The **50 Hz-500 Hz and F1000 (2.4 GHz)** rates are intended for binding with any ExpressLRS 2.4 GHz receiver.



The ExpressLRS tool is found in the TOOLS menu



ExpressLRS LUA script screen

※ The actual appearance of the screens may differ depending on the firmware version.

► Binding with a receiver (Bind)

- ① TURN OFF the transmitter.
- ② Cycle power to the receiver 3 times; the receiver LED will then flash twice — indicating bind mode.
- ③ TURN ON the transmitter, press the SYS button and choose *ExpressLRS LUA* under the *TOOLS* menu. Scroll to *[Bind]* and press enter.
- ④ The LED on the receiver should now be solid, indicating a successful bind.

8. Information for the EU and Czech Market

8.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorاما.cz
Phone	+420 252 252 098
Website	www.rotorاما.cz

8.2 Product conformity



- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorاما.cz.
- **Product identification:** the type designation (GX15) and the serial number are given on the rating label of the device; the firmware version number can be found in the system menu of the transmitter (*VERSION* page).

8.3 Disposal of electrical equipment and batteries



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also <https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu>.

9. Warranty and rights arising from defective performance

9.1 Rights of the buyer under Czech law

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection. The manufacturer's warranty terms set out below (Chapter 9.2) **do not in any way limit** the buyer's rights arising from these regulations.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 8.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.

9.2 Manufacturer's warranty terms

❖ **The following text is the manufacturer's original warranty statement.**

If you experience any issues with your GX15 hardware, please retain your proof of purchase for warranty purposes. To initiate a warranty claim or seek repair assistance, follow these steps:

- ① **Contact your retailer:** contact the retailer where you purchased your GX15 for warranty support.
- ② For additional assistance or to contact the manufacturer's support team, visit RadioMaster Warranty Support: www.radiomasterrc.com/contact.