		RADIOMASTER RANGER
Features	Specifications	How and when to use your Moxon or T-Antenna
Regad CNC asg High efficiency cooling system OLED Display Wiff and Buetooth support Buetor at sup to F-1000Hz Discrete sup to F-1000Hz Discrete sup to F-1000Hz Discrete sup to F-1000Hz Totational Nav key and customizable shortcut buttons Up 1 Watt Power output Watta CRS Cable included *acter at eas over 500hz requires EdgeTX 2.71 or later - Decont Configurator follow Totations or grant strates over 500hz requires EdgeTX 2.71 or later - Decont Configurator follow Totations or grant strates over 500hz requires EdgeTX 2.71 or later - Decont Configurator follow Totations or grant strates over 500hz requires EdgeTX 2.71 or later - Decont Configurator follow Totations or grant strates over 500hz requires EdgeTX 2.71 or later - Decont Configurator follow Totations or grant strates over 500hz requires EdgeTX 2.71 or later - Decont Strates over 500hz requires EdgeTX 2.71 or later - Decont Strates over 500hz requires EdgeTX 2.71 or later - Decont Strates over 500hz requires EdgeTX 2.71 or later - Decont Strates over 500hz requires EdgeTX 2.72 or later - Decont Strates over 500hz requires 2.72 or later - Decont Strates over 500hz requires 2.72 or later - Decont Strates over 500hz requires 2.72 between 500hz requires 1.72 between 500hz requires	Specifications Regulatory Domain: ISM2400 MCU:ESP32(main),ESP8285(aux, as ESP backpack) RF chip: SX12811MLTRT Frequency Range: 2400 MHz to 2480 MHz Maximum receiver refresh rate: 500Hz/F-1000Hz Minimum receiver refresh rate: 50Hz/F-1000Hz Minimum receiver refresh rate: 25Hz RF Output Power: 30dBm for FCC, 20dBm for CE JR Standard Spin socket Built-in RGB Lights Built-in LOLD screen G-sensor Support XT30 Power supply voltage: DC 6V ~ 16.8V Weight: 155 grams (with antenna) Dimension: 90*51*24mm How to bind Ranger module require ELRS V3.0.0 or later. Please ensure your receiver is using V3.0.0 or later first. There are two ways to bind with RX. Bind by Ranger 1. Long press Ranger 5-way button, then press up/down to "BIND" menu, press right to enter. 2. Re-power 3 times your ELRS RX, make sure it on bind mode (LED double blink). 3. Press middle button to bind. Bind by Radio LUA 1: Enter radio ELRS LUA 2: Re-power 3 times your ELRS RX, make sure it on bind mode (LED double blink). 3: Press "Bind" on LUA menu. Bind with Bindphrase <	How and when to use your Moxon or T-Antenna Type: MOXON The Moxon directional antenna is intended for long range and has a more narrow field of operation. It is important to keep the Moxon antenna pointed in the general direction of your aircraft. Antenna polarization: vertical/horizontal polarization Type: T-Antenna The T-Antenna is an omnidirectional antenna. It is intended for short to medium range and is suitable for most conditions. Antenna polarization: vertical/horizontal polarization How to use Futaba CRSF cable Please make sure your Futaba radio fw can support CRSF function. https://futabausa.com/product-support/software-downloads/ Follow futaba manual to select servo test port to CRSF. Connect Ranger via CRSF cable. Connect a XT30 2s-3s lipo battery to Ranger.
D LART O D' HAT O	How to install the module in your radio	1
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Module Firmware Update Step 1: Connect Ranger via usb-cable to PC, then open ELRS-configurator. Step 2: Select target Device Category: RadioMaster 2.4 Ghz Device: RadioMaster Ranger Step 3: please follow option below https: //www.expresslrs.org/3.0/quick-start/firmware-options/ Step 4: click BUILD & FLASH, wait flash finished. Important note on Radio Firmware For the best performance and compatibility we recommend using EdgeTX 2.71 or later with your Ranger ExpressLRS Module. EdgeTX and ExpressLRS have been working together to ensure compatibility and support for the latest features. Visit http://edgetX.org/ to learn more. The Best way to update your radio is with EdgeTX Buddy found here: https://buddy.edgetX.org/		

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FCC Warning This device complies with part 15 of the FCC Rules. Operation is conditions: (1) This device may not cause harmful interference, ar any interference received, including interference that may cause un Any Changes or modifications not expressly approved by the part could void the user's authority to operate the equipment. Note: This equipment has been tested and found to comply with t device, pursuant to part 15 of the FCC Rules. These limits are desi protection against harmful interference in a residential installation and can radiate radio frequency energy and, if not installed and us instructions, may cause harmful interference to radio communical guarantee that interference will not occur in a particular installation harmful interference to radio or television reception, which can be equipment off and on, the user is encouraged to try to correct the 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 connected.	(d (2) this device must accept adesired operation. yr responsible for compliance he limits for a Class B digital gned to provide reasonable This equipment generates uses ed in accordance with the ions. However, there is no h. If this equipment does cause determined by turning the interference by one or more of				
connectedConsult the dealer or an experienced radio/TV technician for hel The device has been evaluated to meet general RF exposure requir in portable exposure condition without restriction.					
This equipment complies with FCC radiation exposure limits set f environment. This equipment should be installed and operated wi between the radiator &your body.					
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