HelloRadioSky

V 14

Remote Controller

Quick Start Guide

WWW.HELLORADIOSKY.COM

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Introduction

Thank you for purchasing the HelloRadioSky V 14 Multi-protocol radio system. HelloRadioSky is proud to bring this ground-breaking product to the market and would like to thank customers just like you and the community for making this dream possible. Please take a moment to read this quick start reference before using your new V 14 radio.

Safety & Precautions.

Many radio control models are equipped with powerful motors and sharp spinning propellers. Please exercise caution when working on models. Ensure power is disconnected from your models and remove propellers when performing maintenance. Do not operate the V 14 radio system under the follow conditions.

- During bad weather or high wind conditions such as rain, hail, snow, storms or electromagnetic events.
- Under limited visibility.
- In areas where people, property, powerlines, roads, vehicles or animals may be in present.
- If you are feeling tired or unwell or under the influence of drugs or alcohol.
- If the radio or model appear to be damaged or not functioning correctly.
- In areas of high 2.4GHz interference or in locations where use of 2.4GHz radios is prohibited.
- When the battery in the V 14 or the model is too low to function.

Manuals and firmware downloads.

The V 14 is shipped with EdgeTX software installed as standard. To download the latest software and manual
please visit: https://www.helloradiosky.com
Further firmware information, please visit: EdgeTX: http://edgetx.org
ExpressLRS: https://www.expresslrs.org/
Multi Protocol Module: https://www.multi-module.org/

CAUTION!
The V 14 is shipped with the most stable firmware at the time of manufacture. Please

only update firmware if you are experienced and confident in updating system firmware. Incorrect updates may render the radio inoperable.

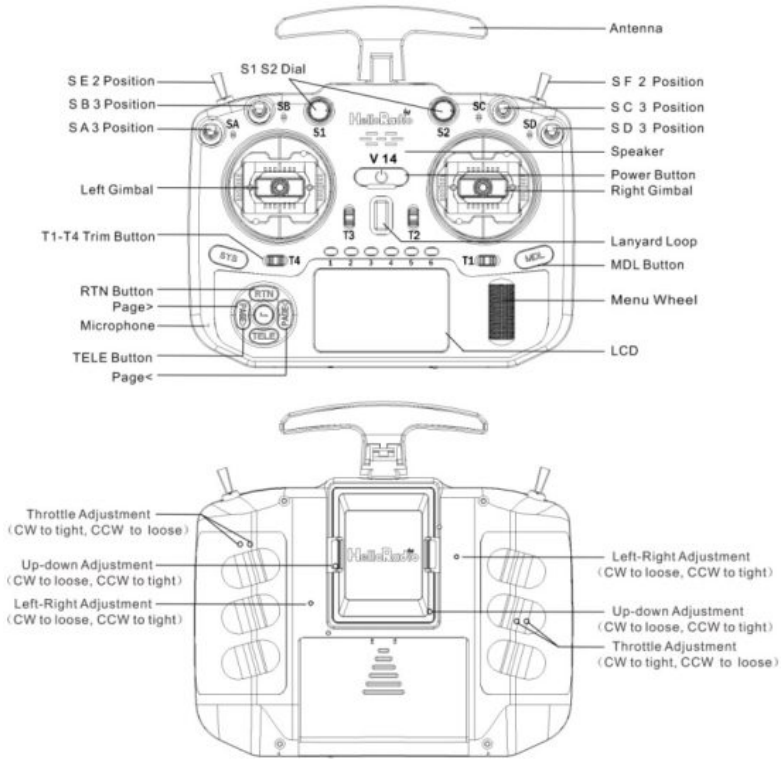
DO NOT charge 6.6v LiFE battery packs or Li-ion 18650 cells with nominal voltage of 3.6v. Incorrectly charging the wrong battery type may lead to damage of the radio or fire.

Antenna Separation Distance

When operating your HelloRadioSky transmitter, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

Regularly check the health and condition of your batteries and never leave your radio charging unattended. Always charge in a safe area away from combustible materials and surfaces. Do not charge if your radio becomes wet or damaged in any way. HelloRadioSky does not accept any liability for the use or misuses of this product.

Remote control overview



Power Requirements and Charge

The V 14 has built in USB-C charging for 3.7v Lithium cells. The Charging circuit is designed for 2x 3.7v Li-ion 18650 unprotected cells or 2x 3.7v Li-poly cells (2s 7.4v LiPO pack) only with a nominal cell voltage of 3.7v and maximum charge capacity of 4.2v.

Please turn off the internal and external RF modules during charging, and it is suggested

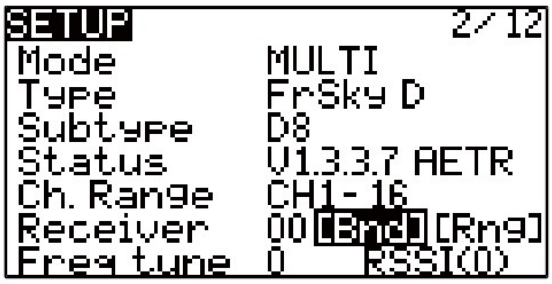
not operate the radio during charging.

Model and protocol selection (multi-protocol module)

A wide variety of modules is available for V 14 units with the multi-protocol module. To find out whether a certain protocol would work with your radio, please visit:

https://www.multi-module.org/

Please note that current protocols may be updated, and new protocols added, without prior notice.



Press and hold the MDL button and scroll to the MODEL SETUP page. Under internal RF, set the Mode to MULTI and select the RF Protocol/ sub protocol as desired. Once the protocol is selected, the corresponding RF chip will be activated.

Note:

- The Bind button starts the bind process, if a compatible receiver is in bind mode within range, it will bind to your receiver.
- Range mode cuts the RF output by a factor of 30, allowing for easy range testing.

Model and protocol selection (ELRS)

Bind method:

1. Turn off the radio.
2. Cycle power to the receiver 3 times, the receiver LED will start blinking, indicating it's in bind mode.
3. Turn on the radio, enter the ExpressLRS LUA, and select Bind.
4. The receiver LED will now stay illuminated, signaling a successful bind process.

Radio Safeguard

The radio is equipped with three high-precision voltage and current sensor measurement units with a measurement accuracy of 0.2%, which solves the problem of using a multimeter to calibrate the battery voltage of the remote control. With the update of EdgeTX software, it can monitor the operating status of the system in real time, the working status of the battery, main control system, built-in high-frequency module, and external highfrequency module in real time. When the system detects abnormal current and voltage signals, it will automatically protect the system and high-frequency modules, and give warnings at the same time. It will prevent damage caused by moisture short circuits, overvoltage and overcurrent, and avoid flight accidents in advance.

Programmable Gimbal LED

Through a simple Lua program, the gimbal LED flashing mode can be customized, and you can use the flight switches to switch between different modes.

AI voice assistant

The remote control is equipped with an AI voice recognition unit, which can provide you with a unique human- machine interaction experience through customized voice entries, powered with EdgeTX software.
Make flying easier and more fun.

1. Turn on the voice switch: press SYS button, select submenu 6, Voice -> LUA,
2. Say “Hello Radio” to the remote control to activate the voice assistant, recognize and respond to subsequent control commands. The timeout after waking up is 8 seconds. If there is no valid voice within 8 seconds, it enters sleep mode and needs to be activated again.
3. Send corresponding voice commands. The effective voice commands and corresponding control responses generated are as follows:

Voice Command	Response (expected actions or functions)
Hello Radio	Active AI voice assistant

System menu	Pop up system settings page
Channel message	Pop up channel monitor page
Channel monitor	Pop up channel monitor page
telemetry	Pop up telemetry information page
Sensor message	Pop up sensor information page
Sensor status	Pop up sensor information page
Model menu	Pop up model settings page
Enter	Confirm
cancel	exit previous page, similar to pressing the RTN key
return	exit previous page, similar to pressing the RTN key
quit	exit previous page, similar to pressing the RTN key
Open gear	Drop landing gear
Close gear	Retract landing gear
Open flap	Extend flaps, one segment at a time, two segments total
Close flap	Retract flaps
Aileron adjustment	Active aileron trim command
left	Adjust the aileron to the left by one grid, and adjust the air craft’s aileron to the left
right	Adjust the aileron to the right by one grid, and adjust the ai rcraft’s aileron to the right
Pitch adjustment	Active elevator trim command

Pitch up	Adjust the elevator up by one grid, and the aircraft will hea d up
Pitch down	Adjust the elevator down by one grid, and the aircraft will h ead down
Rotating adjustment	Active rudder trim command
left	Adjust the rudder to the left by one grid, and the aircraft wil l yaw left
right	Adjust the rudder to the right by one grid, and the aircraft will yaw right
Motion control	Switch to motion control mode. The radio will switch to ma nual control mode when moving any sticks.

Motion Control

The V 14 is equipped with 3-axis acceleration and 3-axis gyroscope sensors. Motion control is available.
Use the voice command “motion control” to activate this function (please refer to the “AI voice assistant” part ofthis manual).

Support, Warranty and Repairs.

Please retain your proof of purchase and contact the retailer you purchased your V 14 from, should you experience any problems with your radio hardware. Warranty is valid for one year from the date of purchase.

Firmware updates and EdgeTX information

For the latest information and firmware updates on the EdgeTX, please visit the EdgeTX website at https://www.Edgetx.org.

Specifications

Transmission frequency: 2.400GHz-2.480GHz
Internal RF options: ExpressLRS, or 4N1 multi-protocol
Working current: 260mA
Working voltage: 6.6-8.4V DC
Radio firmware: EdgeTX
Channels: 14 channels
Display: OLED, or 128*64 Black-and-white LCD
Gimbal sensor: Hall or RDC90
Module Bay: Compatible with following micro JR bay modules: Multi-Protocol-Module, ExpressLRs, Ghost, TBS
Crossfire, TBS Tracer etc
Upgrade method: Supports USB-C online / SD card offline upgrade

Approved for use

2 x 3.7v Li-ION 18650 cells (Assembled as 7.4v 2s Battery pack)
2 x 3.7v Li-ION 21700 cells (Assembled as 7.4v 2s Battery pack)
2 x 3.7v Lithium-polymere cells (Assembled as 7.4v 2s Battery pack)
DO NOT use 3.6v Li-ION cells
2S 6.6v LiFE Battery packs LiFEP04 cells
Do not use 2s 6.6v LiFE battery pack, 18650 lithium-ion cells with a nominal voltage of 3.6v or LiFEP04 18650
Round cells. Using the built in USB charger with incorrect battery types and voltage may cause damage to the remote control or fire.
Check the health and condition of the batteries regularly. Do not use damaged cells.
Never charge your device unattended. Always charge in a safe area away from flammable materials. If the remote control gets wet or damaged in any way, do not charge it.
HelloRadioSky is not responsible for any adverse consequences caused by using or misusing this device.

EU Simple Declaration of Conformity

HelloRadioSky declares the radio equipment V 14 is in compliance with EU directives Directive 2014/53/EU. Full text of the declaration of conformity is available at the

following website www.helloradiosky.com

Manufactured by

ShenZhen HelloRadioSky Technology Co., Ltd

FCC statement

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.

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.

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

Full text of the declaration of conformity is available at the following website www.HelloRadioSky.com

CAUTION:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This product contains a radio transmitter with wireless technology which has been tested and found to

be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

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Documents / Resources

	HelloRadioSky V 14 Multi Protocol Radio System [pdf] User Guide V 14, V 14 Multi Protocol Radio System, V 14, Multi Protocol Radio System, Protocol Radio System, Radio System, System

References

- User Manual

HelloRadioSky

HelloRadioSky, Multi-Protocol Radio System, Protocol Radio System, Radio System, System, V 14, V 14 Multi Protocol Radio System

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