


HelloRadio
HelloRadio
V16 Remote
Controller



HelloRadio V16 Remote Controller User Guide

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HelloRadio ^(RF)

HelloRadio V16 Remote Controller



Product Information:

Specifications:

- Model: Helloradio V16
- Radio System: Multi-protocol
- Software: EdgeTX (shipped with the product)
- Website: www.helloradiorc.com

Product Usage Instructions

Battery Safety:

Regularly check battery health, never leave charging unattended, charge in a safe area away from combustible materials, and do not charge if wet or damaged.

Introduction

Thank you for purchasing the Helloradio V16 Multi-protocol radio system. Helloradio 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. The version has had several improvements thanks to feedback from users like you. Please take a moment to read this quick start reference before using your new V16 radio.

-Helloradio Team.

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 V16 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 V16 or the model is too low to function.

Manuals and firmware downloads.

The V16 is shipped with EdgeTX software installed as standard. To download the latest software and manual please visit <https://www.helloradiorc.com>
Further firmware information.

- EdgeTX: <http://edgetx.org>
- OpenTX: www.opentx.org
- ExpressLRS: <https://www.expresslrs.org/2.0/>
- Multi Protocol Module: <https://www.multi-module.org/>



CAUTION!

The V16 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.

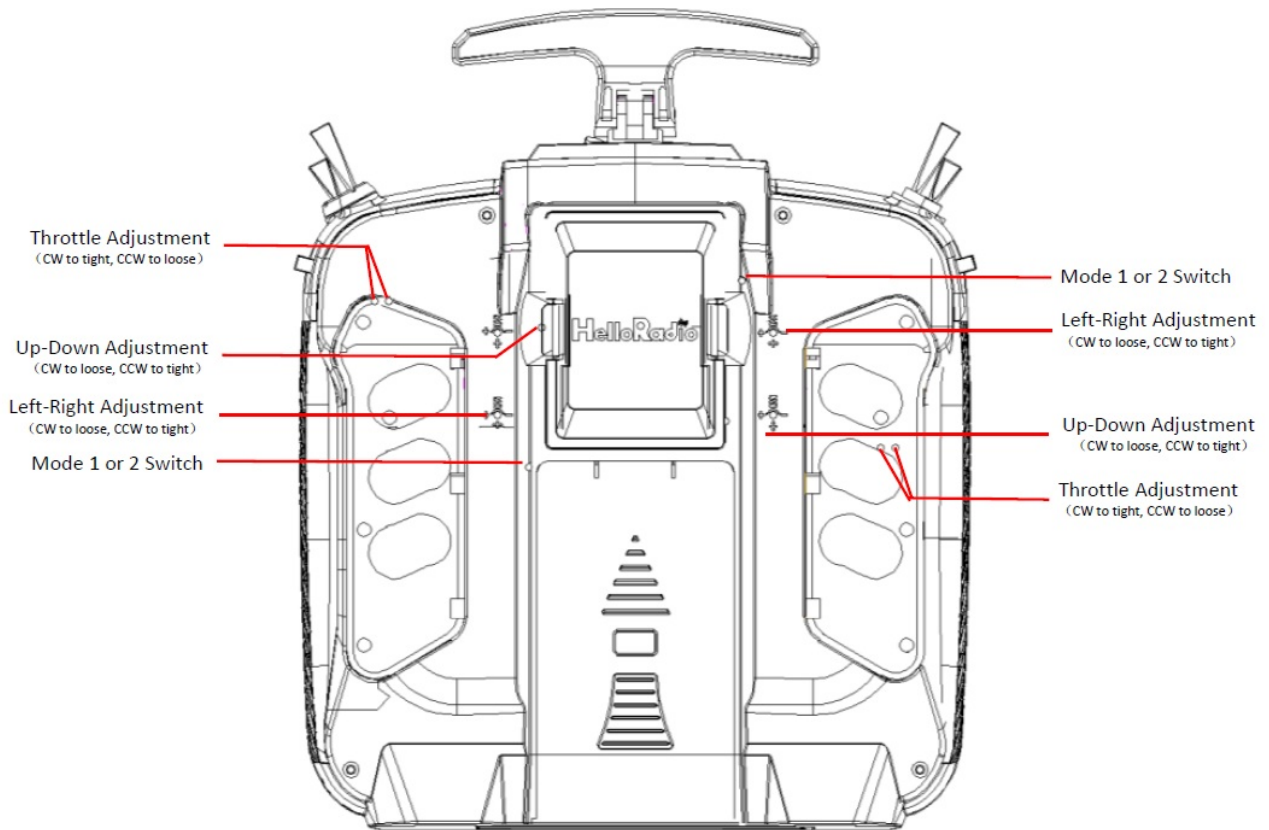
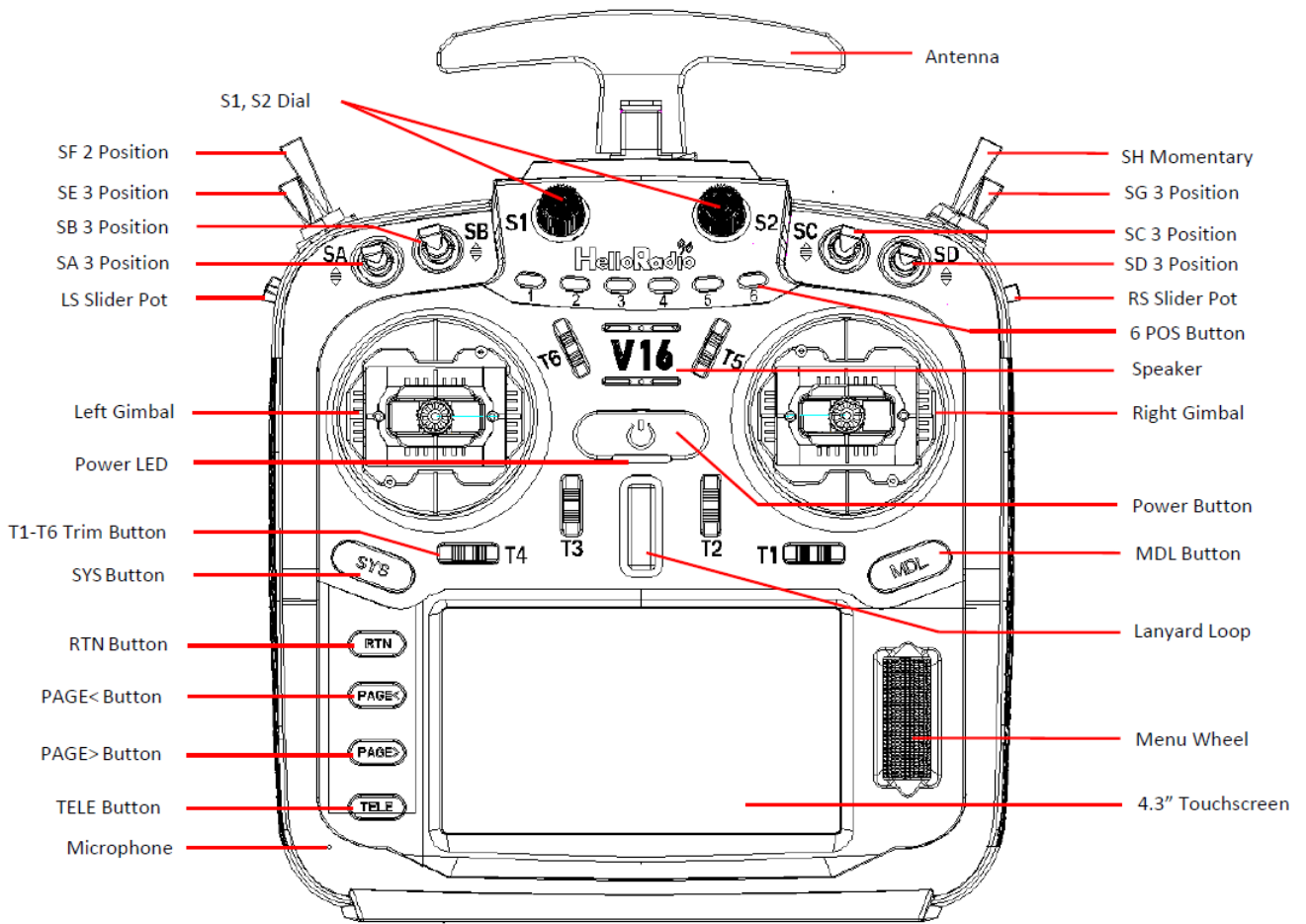
Antenna Separation Distance

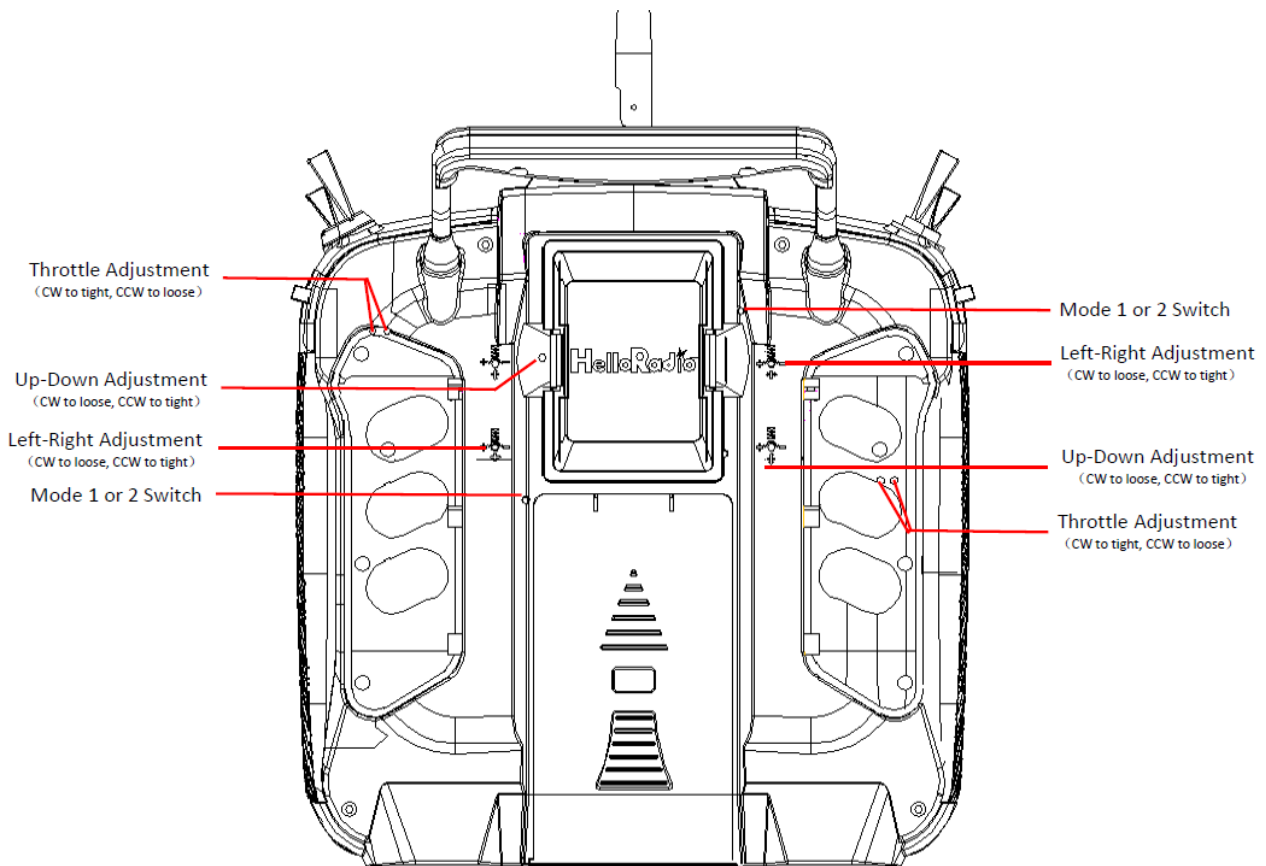
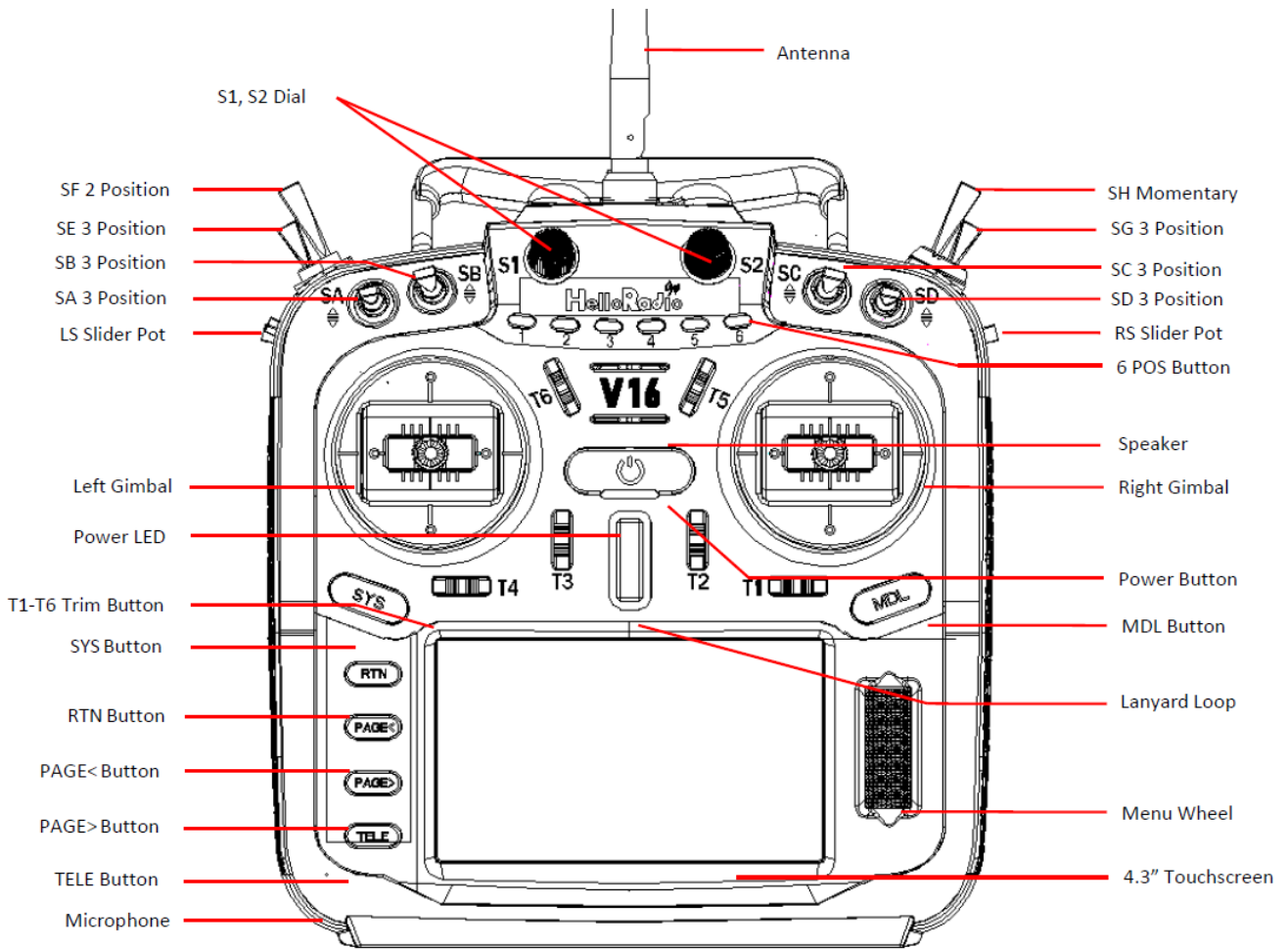
When operating your Helloradio transmitter, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles and feet) and the antenna to meet RF exposure safety requirements as determined by FCC regulations.

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. Helloradio does not accept any liability for the use or misuses of this product.

Remote control overview





Power Requirements.

The V16 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.

Model and protocol selection (multi-protocol module)

A wide variety of modules is available for V16 units with the 4-in-1 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.

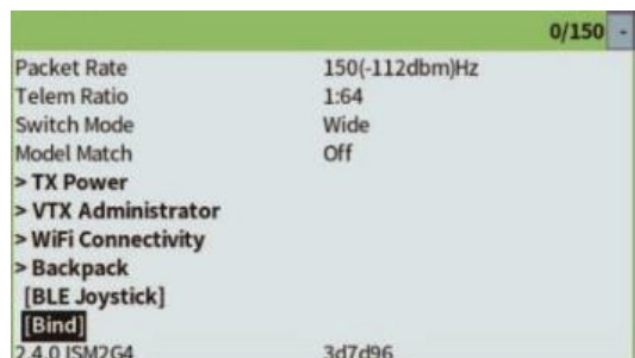


Press and hold the MDL button and scroll to the MODEL SETUP page. Under internal RF, set the Mode to MULTI and select the RF Protocol/ sub protocol as desired. Once the protocol is selected, the corresponding RF chip will be activated.

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.

Support.

Warranty and Repairs.

Please retain your proof of purchase and contact the retailer you purchased your V16 from, should you experience any problems with your radio hardware. Warranty is valid for one year from the date of purchase.

Specifications

- Size: 286*128*182mm
- Weight: 750g (without battery)
- Transmission frequency: 2.400GHz-2.480GHz
- Transmitter module: 4-in-1 multi-protocol internal module -OR- ExpressLRS internal module
- Working current: 450mA
- Working voltage: 6.6-8.4vDC
- Radio firmware: EdgeTX (Supports OpenTX also)
- Channels: Up to 16 channels (depending on the receiver)
- Display: 4.3-inch TFT full-color touch display with a resolution of 480 * 272
- Gimbal: V4.0 Hall sensor with Aluminum fascia -OR- AG01 CNC Hall sensor
- Module Bay: JR compatible module bay
- Upgrade method: Supports USB-C online / SD card offline upgrade



Approved for use

- 2 x 3.7v Li-ION 18650 cells (7.4v using supplied tray)
- 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 lithiumion 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. Helloradio is not responsible for any adverse consequences caused by using or misusing this device.

EU Simple Declaration of Conformity

Helloradio declares the radio equipment V16 is in compliance with EU directives Directive 2014/53/EU. Full text of the declaration of conformity is available at the following website www.radio-masterrc.com

Manufactured by

ShenZhen Helloradio 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.helloradiorc.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.

WWW.HELLORADIORC.COM

Frequently Asked Questions (FAQ)

• Q: Can I charge LiFE battery packs with the V16 radio?

A: No, do not charge 6.6v LiFE battery packs or Li-ion 18650 cells with nominal voltage of 3.6v as it may lead to damage or fire.


• Q: What should I do if my radio becomes wet or damaged?

A: Do not charge the radio if it becomes wet or damaged. Contact customer support for guidance on next steps.













- **Q: How can I update the firmware of the V16 radio?**

A: Only update firmware if experienced and confident. Visit the provided links for latest firmware downloads and follow the instructions carefully to avoid rendering the radio inoperable.

Documents / Resources

	<p>HelloRadio V16 Remote Controller [pdf] User Guide 2BHKV-V16, 2BHKVV16, V16 Remote Controller, V16, Remote Controller, Controller</p>
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References

-  [Welcome to EdgeTX! - EdgeTX](#)
-  [Welcome to EdgeTX! - EdgeTX](#)
-  [Redirecting...](#)
-  [Home | MULTI-Module Documentation](#)
-  [Welcome to OpenTX](#)
-  [RadioMaster RC - A team of radio control model enthusiast](#)
-  [Welcome to EdgeTX! - EdgeTX](#)
-  [Welcome to EdgeTX! - EdgeTX](#)
-  [Redirecting...](#)
-  [Home | MULTI-Module Documentation](#)
-  [MULTI-Module Documentation](#)
-  [Welcome to OpenTX](#)
- [User Manual](#)

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