



Contents [[hide](#)]

- [1 HelloRadio V14 Multi Protocol Remote Control](#)
- [2 Product Information](#)
- [3 Intorduction](#)
- [4 Notes](#)
- [5 Notes on environmental protection](#)
- [6 Target audience](#)
- [7 For your safety when handling rechargeable batteries](#)
- [8 Safety instructions for storing rechargeable batteries](#)
- [9 Manuals and firmware downloads](#)
- [10 Remote control overview](#)
- [11 Power Requirements and Charge](#)
- [12 Model and protocol selection](#)
- [13 AI voice assistant](#)
- [14 Support, warranty and repairs](#)
- [15 Specifications](#)
- [16 Approved for use](#)
- [17 FCC statement](#)
- [18 FAQ](#)
- [19 Documents / Resources](#)
 - [19.1 References](#)





Product Information

Specifications

- Manufacturer: ShenZhen HelloRadioSky Technology Co., Ltd
- Model: V14 SENDER TRANSMITTER
- Features: 3-axis acceleration and gyroscope sensors, programmable Gimbal LEDs, KI voice assistant

Intorduction

Thank you for choosing the HelloRadioSky V 14 Multiprotocol Remote Control. HelloRadioSky is proud to bring this groundbreaking product to market and would like to thank customers like you and the community for making this dream possible. Please take a moment to read this Quick Start Guide before operating your new V 16 transmitter.

This remote control system may only be used for the purpose intended by the manufacturer, for the operation of unmanned remote control models. This includes all types of UAVs and all types of unmanned aerial vehicles as well as all types of unmanned land and water vehicles. Any other use is not permitted and can lead to considerable damage to property and/or personal injury. Therefore, no guarantee or liability is assumed for any improper handling outside of this provision. Furthermore, it is explicitly pointed out that you must inform yourself about the laws and other regulations applicable at your respective launch location before starting remote control operation.

Such regulations may also vary from state to state. However, these must always be complied with.

Notes

- An overview of the current legal regulations for the operation of “unmanned aircraft” in Germany can be found on the Internet at <https://www.bmvi.de/SharedDocs/DE/Anlage/LF/drohnen-flyer-regelungen-eu-und-deutschland.html> or by entering the search term “drones” in the search field at www.bmvi.de.
- In general, airfields, factory premises may not be flown over,
- nature conservation areas, built-up areas, etc.
- Where there are designated no-fly zones and therefore may not be flown under any circumstances can be determined using the “AirMap for drones” or “AirMap” app available in the Apple or Google Store, for example. Read the entire manual carefully before using the transmitter.

Notes on environmental protection



This symbol on the product, the instructions for use or the packaging indicates that this product must not be disposed of with normal household waste at the end of its service life. It must be taken to a collection point for the recycling of electrical and electronic equipment. The materials are recyclable according to their labeling. By reusing, recycling or otherwise recovering old appliances, you are making an important contribution to environmental protection. Batteries and rechargeable batteries must be removed from the appliance and disposed of separately at an appropriate collection point. Please contact your local authority to find out where to dispose of them.

Target audience

The product is not a toy. It is not suitable for children under the age of 14. The transmitter may only be operated by experienced model builders. If you do not have sufficient knowledge about handling remote-controlled models, contact an experienced model builder or a model building club.

For your safety when handling rechargeable batteries

- Protect batteries from dust, moisture, heat and vibrations. For dry use only!
- Do not use damaged batteries.
- Any manipulation of batteries can lead to serious injury or burns.
- Do not heat, burn, short-circuit or charge batteries with excessive current or reversed polarity.
- Keep flammable or highly flammable objects away from the charging unit.
- Never leave the charging system connected to the power supply unattended.
- Only charge batteries in rooms equipped with a smoke detector.
- Only ever charge batteries with suitable chargers.
- The maximum fast charging current specified for the respective cell type must never be exceeded.
- If the batteries heat up to over 60 °C during the charging process, the charging process must be aborted and the
 - allow the battery to cool down to approx. 30 ... 40 °C.
- Never charge batteries that are already charged or hot. If a cell of the battery pack has become particularly hot after
 - become particularly hot, this may indicate a defect in this cell. Do not use this battery pack again!
- No modifications may be made to the battery pack. Never solder or weld directly to the cells.
- If handled incorrectly, there is a risk of ignition, explosion, chemical burns and burns.

Special notes

Only use specially designed chargers/dischargers for charging and discharging rechargeable batteries.

Safety instructions for storing rechargeable batteries

- Batteries should be stored in dry rooms at an ambient temperature of +5 °C to +25 °C.
- If LiPo batteries are to be stored for a longer period of time, their cell voltage must be brought to approx. 3.8V. If the cell voltage falls below 3 V, they must be recharged immediately. Deep discharging will render the battery unusable in the short term, and

prolonged storage in a discharged or fully charged state will render it unusable in the long term.

Safety & Precautions

Many remote control models are equipped with powerful motors and sharp-edged propellers. Please be careful when working on your models. Ensure that the power supply to your models is disconnected and remove the propellers when carrying out maintenance work.

Do not operate the V 14 remote control under the following conditions.

- In bad weather or strong winds such as rain, hail, snow, storms or electromagnetic events.
- In restricted visibility.
- In areas where people, property, power lines, roads, vehicles or animals may be present.
- If you feel tired or unwell or are under the influence of drugs or alcohol.
- If the radio or model appears to be damaged or is not working properly.
- In areas with strong 2.4 GHz interference or in places where the use of 2.4 GHz radios is prohibited.
- If the battery of the V 16 or the model is too weak 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

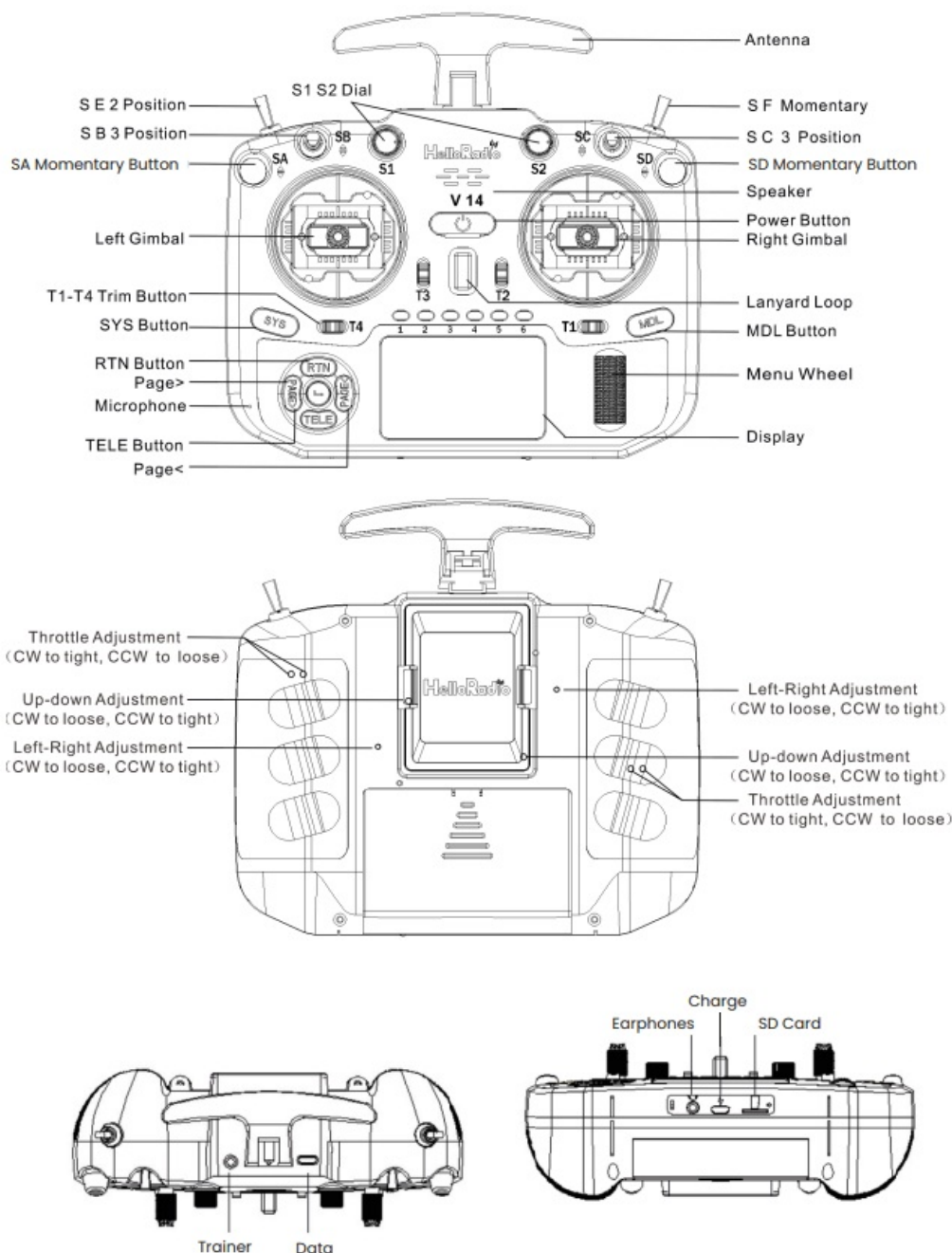
3.6v. Incorrectly charging the wrong battery type may lead to damage of the radio or fire.

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.

```

      SETUP                                2/12
Mode          MULTI
Type          FrSky D
Subtype       D8
Status        V1.3.3.7 AETR
Ch. Range     CH1-16
Receiver      00 [Bind] [Rng]
Freq tune     0      RSSI(0)

```

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.

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 high-frequency 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 re-pond 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 aircraft's aileron to the left
right	Adjust the aileron to the right by one grid, and adjust the aircraft's aileron to the right
Pitch adjustment	Active elevator trim command
Pitch up	Adjust the elevator up by one grid, and the aircraft will head up
Pitch down	Adjust the elevator down by one grid, and the aircraft will head down
Rotating adjustment	Active rudder trim command
left	Adjust the rudder to the left by one grid, and the aircraft will 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 manual 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 of this manual).

Support, warranty and repairs

Please keep your proof of purchase and contact the dealer from whom you purchased your V 16 if you have any problems with your radio hardware. The warranty is valid for two years from the date of purchase.

1. scope of warranty

- The warranty covers the free repair of any defects in material or workmanship. However, the warranty does not cover the costs of transporting the product or the risks associated with transportation.
- The sender must independently ensure that the product shipped by him is packed securely for transportation.
- The fault shall be rectified by repair or replacement (parts and devices) at the sender's discretion. Replaced parts or devices shall become our property.
- Replacement devices and spare parts may be new or refurbished.
- The backup of the data and programming stored or saved in a product is not granted when warranty work is carried out.
- Subsequent resale and the performance of warranty work, including replacement, shall not result in an extension or recommencement of the warranty.
- If the warranty is given exclusively on the replacement part, other costs such as labor, travel costs or postage costs are not covered by the warranty.

2. making a claim under the guarantee

1. To make a claim under the guarantee, 1) any defects must be reported immediately as soon as they become apparent and 2) the original invoice or the retailer's sales receipt (stating the date of purchase, model name and name of the retailer) must be presented.

3. Excluded costs and defects/damage

The warranty excludes

1. Costs for regular checks, maintenance and repair as well as replacement of

wearing parts and consumables;

2. Defects caused by incorrect operation, handling or incorrect installation;
3. damage caused by transportation or improper packaging;
4. indirect consequences of a possible defect (loss of use, loss of profit, etc.);
5. Damage caused by non-compliance with the manufacturer's recommendations;
6. damage (e.g. scratches, dents) caused by external influences, liquids, falls, mechanical in-fluences, chemical and vegetable products, nicotine or grease deposits, other soiling, im-proper assembly, installation and/or use of accessories not approved by HelloRadioSky etc.;
7. force majeure, such as lightning, fire, flood, storm, earthquake, war, etc.;
8. improper use;
9. connection to an incorrect mains voltage or type of current;
10. inadequate or faulty ventilation or other reasons beyond HelloRadioSky's control;
11. Interventions by persons who are neither authorized nor authorized by HelloRadioSky.

4. Exclusions from the guarantee

The guarantee does not apply if

1. the use goes beyond normal product use;
2. a defect was not reported immediately;
3. HelloRadioSky was not immediately given the opportunity to carry out warranty work;
4. parts have been installed in the product whose use has not been approved by HelloRadio-Sky or the product has been modified in a manner not approved by HelloRadioSky;
5. the product has been improperly handled or overused;
6. the serial number is not present or has been altered, deleted, removed or made unrecog-nizable in any other way.
7. das Produkt als B -Ware erworben wurde.

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

- **Dimensions:** 182*132*54mm
- **Weight:** 560g (without battery)
- **Transmission frequency:** 2.400GHz-2.480GHz
- **Internal RF options:** ExpressLRS or 4N1 multiprotocol
- **Operating current:** 260mA
- **Operating voltage:** 6.6-8.4V DC
- **Radio firmware:** EdgeTX
- **Channels:** 14 channels
- **Display:** OLED, or 128*64 black and white LCD
- **Cardanic sensor:** Hall or RDC90
- **Module slot:** Compatible with the following micro JR modules: Multi-protocol modules, Ex-pressLRs, Ghost, TBS Crossfire, TBS Tracer, etc.
- **Upgrade method:** Supports USB-C online / SD card offline upgrade
- **Battery slot:** Standard 18650 battery (2 pieces)

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 vol-tage 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 mate-rials. If the remote control gets wet or damaged in any way, do not charge it.
- HelloRadioSky and its distributors are not responsible for any adverse consequences arising from the use or misuse of this device.

Manufactured by

ShenZhen HelloRadioSky Technology Co., Ltd

EU Simple Declaration of Conformity

HelloRadioSky declares the radio equipment V 16 is in compliance with EU directives Directive 2014/53/EU. Full text of the declaration of conformity is available at the following website <https://www.d-power-modellbau.com>

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

<https://www.d-power-modellbau.com>

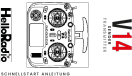
CAUTION

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.

FAQ

- **Q: Can the V14 transmitter be used with all types of remote-controlled models?**
A: The V14 transmitter is compatible with a wide range of models. However, ensure compatibility with your specific model before use.
- **Q: How do I activate the motion control feature?**
A: To activate motion control, use the voice command "Motion control" as detailed in the user manual under the "KI voice assistant" section.

Documents / Resources

	HelloRadio V14 Multi Protocol Remote Control [pdf] Instruction Manual V14SENDER, V14, V14 Multi Protocol Remote Control, V14, Multi Protocol Remote Control, Protocol Remote Control, Remote Control
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References

- [User Manual](#)

■ HelloRadio

🔍 HelloRadio, Multi Protocol Remote Control, Protocol Remote Control, Remote Control, V14, V14 Multi Protocol Remote Control, V14SENDER

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