CRF5N60BL Remote control technical specification

V1.0

2022-6-24

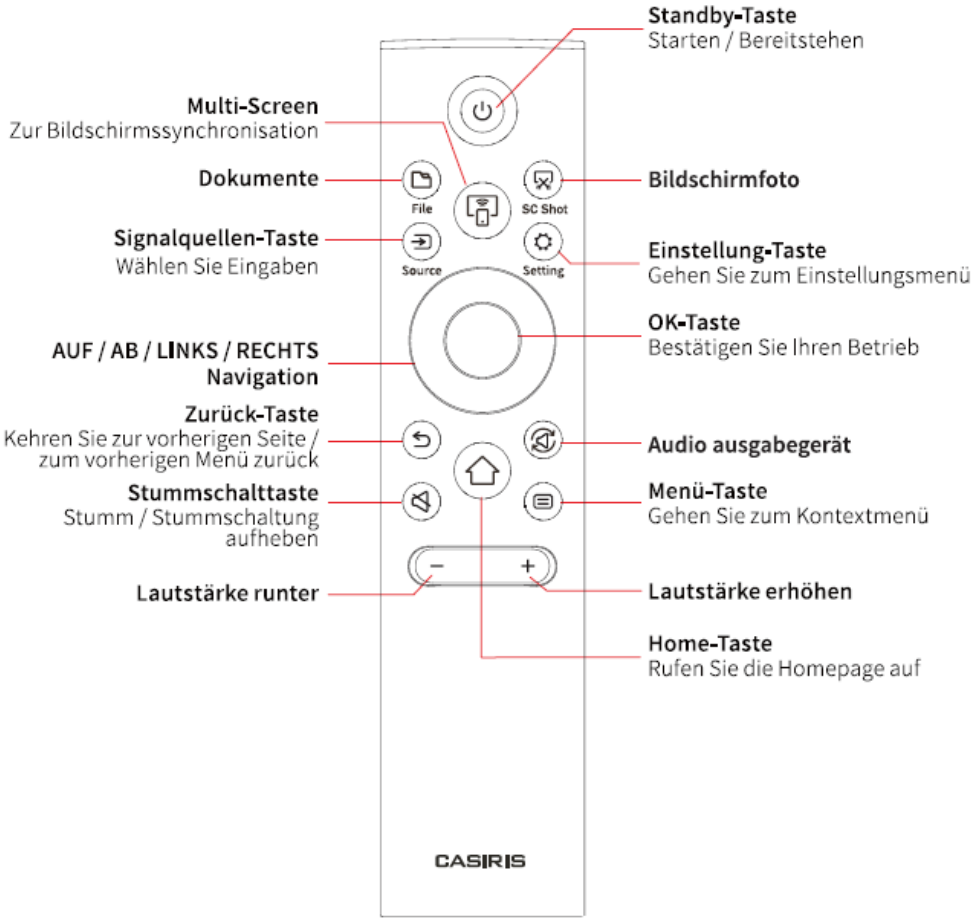
1、Overview of remote control

CRF5N60BL remote control adopts Bluetooth BLE and infrared for data transmission, and the receiver is received through dual-mode Bluetooth (commonly known as Dongle). The receiver is built into the TV.

CRF5N60BL remote control is a multi-functional intelligent remote control for network TV. Bluetooth receiver uses USB interface to connect with the host. Different functions are virtualized into different HID (Human Interface Device) or standard USB Audio devices.

2、Appearance and structure:

1、Schematic diagram of product appearance/screen printing



This is a schematic diagram of the appearance effect. The actual appearance is subject to the component specifications.

dimension（mm）	164 × 38 ×20.2
mass*（g）	64

* Note: if the product uses external dry batteries, the mass refers to the weight of the product excluding batteries. If the product has a non-removable built-in battery, this mass refers to the weight of the product including the built-in battery.

3、Software Details

functioning pattern：

1) Remote control adopts Bluetooth BLE and infrared transmission mode; Remote control by default in bluetooth mode; In infrared mode, all the buttons to send only the infrared signal, in the condition of the bluetooth connection is successful, can voice transmission via bluetooth and infrared control data; In bluetooth mode, all the keys in the absence of bluetooth connection using infrared emission model, when the bluetooth connection success use BLE means of transmission; The red light flashes when the button is in infrared state, and the blue light flashes when the button is in Bluetooth connection.

2) No voice function

3) When any key of the remote control is pressed for more than 3 minutes, the remote control should stop working and automatically enter the standby state. When all the keys are released, the remote control will resume normal work. When the remote control enters the standby state because of abnormality or low power, it needs to reset the port state before entering the protection mode;

4) When the remote control is in Bluetooth mode, it needs to receive the infrared forwarding control data sent by the BLUETOOTH terminal of TV in real time, and perform corresponding operations or send corresponding infrared key values according to the received infrared forwarding control data.

5）Use 2 no. 7 dry battery power supply;

6）When pressing the button 50 times, the remote control shall detect the electric quantity once, and send the corresponding electric quantity data or key value; When the power is low (less than 2.4V), the indicator light (red) flashes, indicating low power, and sends the key value of "underpower" once (only once before entering standby); When the power is seriously insufficient (less than 2.2V), all indicators are off, and pressing any button does not work;

4 performance parameter

Remote transmission protocol	BLE
Bluetooth operating band	2.400GHz-2.4835GHz
Remote Control Keypad	18 key
power supply mode	Two size 7 batteries
working voltage	2.2-3.3V
RF power	0dbm
peak transfer rate	1Mbps
Button wake up time	<100ms
Key operating distance	>12m
Static standby current after pairing	<60uA
The operating environment temperature is required	-10ºC ~ +45ºC
Operating relative humidity is required	≤85%

5 packing specification

REAL PICTURE

The picture is for packaging design reference only

6 Transportation and storage requirements

6.1 Logistics packaging standard

packing	logistics	Handling requirements
Cartons/revolving cases	automobile transport	SFH /SFE

6.2 Storage condition standard

temperature requirement/℃	moisture requirement /RH	Whether dust proof is required	Storage packaging and dustproof requirements	**Whether to prevent static electricity**	**Antistatic requirements**
-20℃～60℃	≤90%	Y	Materials are not allowed to be placed on site without packaging	Y	<8KV

6.3 Standard pattern

MODEL	Number of stacking layers/or limit height)
CRF5N60BL	6 floors

FCC Caution:

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.

RF Radiation Exposure & Hazard Statements

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not co-located or operating in conjunction with any other

antenna or transmitter.

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

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. The 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 doesn't cause harmful interference to radio or television reception, which can be diminished by turning the equipment off and on, the user is encouraged lo 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.

ISED Statement

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) this device may not cause interference,

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) L'appareil ne doit pas produire de brouillage;

(2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.