

Remote control physical function requirements description

1. Remote control key

System Code: 0x06FE Code Format: NEC

	Usage Page	Usage ID	IR CODE
Power	0x07	0x0066	0x00
Back	0x0C	0x0224	
Home	0x0C	0x0223	
Voice search	0x0C	0x0221	
Center (select)	0x0C	0x0041	
Up	0x0C	0x0042	
Down	0x0C	0x0043	
Left	0x0C	0x0044	
Right	0x0C	0x0045	
Voice+	0x0C	0x00E9	
Voice-	0x0C	0x00EA	
Menu	0x07	0x0076	

Remote control operating instructions

1. Remote control special requirements

1) When connected to Bluetooth, the remote control sends the Bluetooth key value; if Bluetooth is not connected, it sends the infrared key value.

(Only standby button infrared)

2) indicator: red, each time you press the button, the indicator light flashes

Low Voltage Reminder: When the power is low, the indicator light flashes rapidly. As long as the indicator is still operating, it will stay blinking. When the remote controller is no longer operating, it flashes 5 times or flashes for 3 seconds, then stops and goes out.

3) Support Bluetooth remote control online upgrade, and can be triggered by the HOST side upgrade.

4) Pairing method: Press and hold the "OK" + "BACK" button at the same time for 3 seconds, the indicator light flashes, and the pairing success indicator light turns off for 3 seconds.

Connection interval <12ms

5) Remote control distance: $\geq 10\text{m}$

6) Bluetooth device name: B06A

2, remote control other requirements

1) Pairing requirements: No Bluetooth devices can not be scanned or can not be paired (including continuous pairing keys in a short period of time), please verify 50 times to ensure no problems;

2) back to the functional requirements: there should be no back to back the problem, including the box back to the power, the remote power-off back to connect, put it aside for 2 hours and so on, please verify 50 times to ensure that

no problem;

3) anti-jamming function requirements: There should be no problems that affect the throughput of the host WIFI very much, please make sure that the host-side WIFI throughput is normal when the remote controller is connected;

4) Performance requirements: Requirements support $\leq 10\text{m}$, there must be no voice call Caton, lost and the remote control button Caton, lost code or even key problems;

5) Power Requirements: The remote control can last for at least 6 months

6) Voice: 16Khz voice sample with 16-bit sampling, long press voice key to enter voice search, release to exit.

Hardware requirements

NO.	Item	Specifications
1	Numberofkeys	12
2	Size	150*39*19mm
3	Button free height	$\leq 2\text{mm}$
4	After the role of key height	$\geq 0.5\text{mm}$
5	Button force	160g $\pm$ 30gf
6	Shell plastic material	ABS
7	PCB	FR-4
8	Rubber	Silicone raw materials must be used (no powder added) and no irritating odor
9	Metal dome	Remote control all keys using metal dome button, and life must be ≥ 1000000 times, continuous press test times $\geq 500,000$ times, can be restored to the original load

Specifications

NO.	Item	Specifications
1	battery	Alkaline battery
2	Supply voltage	2.2-4.2V
3	Current	$\leq 5\mu\text{A}$ @ sleep power consumption $\leq 3\text{mA}$ @ standby power consumption $\leq 20\text{mA}$ @ transmit power (conventional button)

		≤ 25 mA @ Recording function (voice function)
4	Audio output	Mono, 16K sampling rate, 16bit precision audio output
5	Transmission distance (Bluetooth)	≥12m
6	Bluetooth protocol (Bluetooth)	BT4.1
7	Signal Requirements (Bluetooth)	Meet the communication transmission distance requirements, while meeting Bluetooth BQB certification requirements
8	Voice Requirements (Bluetooth)	Speech software recognition rate ≥ 90% (sentence), in case of interference: speech recognition rate ≥85% (sentence) (need to confirm and STB and software normal state)
9	Connection Response (Bluetooth)	≤200ms, here refers to the restoration of connection speed, through the remote control test began to broadcast to be connected to the time interval
10	Other common Bluetooth device effects	HOST-side adaptation driver, without affecting the original Bluetooth universal device support, such as Bluetooth headset / audio (HSP / HFP, A2DP, etc.), Bluetooth keyboard, Bluetooth mouse, gamepad and so on.
11	Audio transmission requirements	No abnormal audio transmission, no significant interference, lost data, cut-off and other phenomena
12	Microphone sensitivity	Sensitivity -42 ± 3dB
13	Microphone signal to noise ratio	Can not be lower than 58dB

Warning:

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
2. This device must accept any interference received including interference that may cause undesired operation.

NOTE: 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.

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