

Component Specifications

Supplier Name: Guangdong Chenyi Intelligent Technology Co., Ltd.

Product Name: RF 2.4G Remote Control

Supplier Part Number: SRC-1116

Science and animal husbandry material number: 13D401-2461

approve Approval	Audit Checked	Supplier Supplier
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approve Approval	Audit Checked	Kemu COMOO



Revision History

Serial No.	Version	Rev. Modified Description	Modification page Page	project Item	date Date	Remark Remark
1	V1.0	Fully formulated	All	All 2025.04.26		
2						
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1. Product Overview

1. Scope of application:

This technical description applies to the RF 2.4G remote control of Kemu (customer part number: 13D401-2461)

2. Reference standards:

The specification standards of this product are formed by referring to the technical requirements standards provided by KeMu and the national standards for remote controls.

2. Performance parameters

1. Electrical properties

Serial number	project	parameter	Remark
1	Rated voltage	DC 3V (Alkaline dry battery AAA*2)	
2	Transmitting frequency	Standard: 2442.0000MHz±50KHz	
3	Transmit power	Standard: ≤-50dbm	
4	Quiescent current	≤20uA	DC 3.0V
5	Dynamic Current	≤25mA	DC 3.0V
6	Transmission distance	Under the ambient illumination of natural light or fluorescent light 200±50lx, the remote control When the device uses 3V voltage, pressing any key should respond. Standard: Transmitting distance ≥ 10 meters	
7.	RF frequency range	2402-2480MHz±50KHz±50KHz	
8.	RF Power Range	-10dBm±0.5dBm	
9	Other contents	Execute according to the internal enterprise table of the remote control company Standard: must be greater than or equal to the national standard	

2. Environmental performance

Serial number	project	parameter	Remark
1.	Storage Environment	Temperature: -25-70y	
		Humidity: y95RH%	
2.	Work Environment	Temperature: -15-60y	
		Humidity: y95RH%	

3. Functional requirements

according to	Icon key name	Short press function		LED Display	Long press function	Long press function	LED Display	Remark
key			Energy Code			code	Show	
sequence								
Number								
Key 1		stop	0x00	LED display water temperature level	/	/	/	Press the button to send code
Key 2		Hip wash/ move	0x08	LED display water temperature level	/	/	/	Press the button to send code
Key 3		Soft Mist Wash/Transfer move	0x0b	LED displays water temperature level (long press	3±0.5s —Long press wash	0x0d	LED Display Water temperature display Bit	Key release code Adjust after pressing the baby wash button Water temperature, wind temperature, water pressure, Each position is memorized separately. When washing children, water temperature and wind temperature should be Water pressure, position should be restored to default Recognition value (water temperature 1, wind temperature 1, Water pressure 1, position 5) (Note:

								After entering the baby wash function, adjust
								After adjusting the position and water pressure, press
								Press the warm air button to exit the baby wash function
								Yes, the first time you enter the child
								Air temperature before washing)
Key 4		Scour	0x0e	Display the last LED	(Press and hold 3±0.5s) off /open ——Long press Dynamic flushing (resting Test again after sleep close)	0x19	LED1 is on Table of Extinction Show flushing On and off, LED3 Long Bright	Key release code
Key 5		Warm air/ Wind temperature	0x04	LED display of air temperature level 1. LED display: 0, 1, 2, 3, gears corresponding to 0, 1, 3, 5 - long press the foot LED Light 2. Gear sequence y0123210123y	(Press and hold 3±0.5sy Feeling Factory default on start	0x1f 0x24 0x02/0x01	LED2 is on Table of Extinction Show foot feeling On and off, LED3 Long Bright	Key release code 1. Warm wind and wind temperature The same function, code The value is 0x04 plus Upper wind temperature bytes Gear information; LED off state Down (standby), First short press warm Wind, send 0x04

									Plus the current wind temperature
									gear position, in LED
									If it is not extinguished,
									Short press warm air,
									Send 0×04 plus
									Next wind temperature level
									Bit.
									2. After the LED turns off,
									Or press other
									Press the button again to warm
									Wind button, equivalent to
									On the first press,
									Send 0×04 plus
									Current air temperature
									Bit.
Key 6		Seat temperature	0×19	1. LED display: 0-5 levels 0-5 LED lights 2. Gear sequence: ÿ0123454321012345ÿ	/	/	/		Press the button to send code
Key 7		Water temperature	0×19	1. LED display: 0-5 levels 0-5 LED lights 2. Gear sequence: ÿ0123454321012345ÿ	/	/	/		Press the button to send code

Key 8		Water pressure+	0×18	1. LED display: 0-6 levels 1-5 LED lights, 0 level 1 LEDs, 6 levels, 5 LEDs 2. Gear sequence: (23456) After reaching level 6, press other buttons key, the gear position will be returned to gear 5. After pressing the 6th level, if the next Press water pressure - once to set to level 4.	/	/	/	Press the button to send code
Key 9		Location ÿ	0×18	1. LED display: Display the previous Secondary LED 2. Gear sequence: (43210) ——Long press to spray After pressing to level 0, press other buttons key, the gear position will be returned to 1st gear. After pressing to level 0, if the next Press it again to move forward and send 2 gears.	Long press 3±0.5sÿ Mouth cleaning	0×09	Show Previous Secondary LED	Key release code
key 10		Location ÿ	0×18	1. LED display: Display the previous Secondary LED 2. Gear sequence: (23456) - Long press night After reaching level 6, press other buttons key, the gear position will be returned to gear 5. After pressing the 6th level, if the next Press again to move back and send 4 gears.	(Press and hold 3±0.5sÿ Light switch	0×19 Switch to display the previous	Secondary LED	Key release code



key 11		Water Pressure-	0×18	0×19	Key release code	
			1. LED display: 0-6 gear position (long press	LED5 on		
			1-5 LED lights, 0 level 1	3±0.5s		Table of Extinction
			LEDs, 6 levels, 5 LEDs	Long press the smart		Power saving
			2. Gear sequence: (43210)	Can save electricity		On and off,
			After pressing to level 0, press other buttons			LED3 Long
			key, the gear position will be returned to 1st gear.			Bright
After pressing to level 0, if the next						
Press water pressure + again to start level 2.						

4. Key code sending logic

1. When a single-function button is pressed, the indicator light turns on and a code is sent;

2. The short-press function of the multi-function button means that the indicator light will light up and the code will be sent after the button is pressed and released. The long-press function of the multi-function button means that the code will be sent immediately after the button is pressed for a long-press trigger time, for example, 3 seconds.

3. Press the button quickly and briefly within 300ms, the indicator light does not change and no code is sent.

5. Special buttons

1. The water pressure and position of the soft mist wash/move button need to be memorized separately and are not linked to other cleaning modes.

6. Anti-stuck keys

1. When a key is pressed for more than 15 seconds, it is considered to be stuck. In this case, the key should be blocked and the operation of other keys should be disabled.

The function is restored and can enter the standby mode normally.

When the stuck button is no longer stuck, the normal operation function can be restored immediately.

7. Gear adjustment function logic

1. Water temperature and seat temperature gear adjustment: Each time the adjustment key is pressed, the gear changes by 1 gear, and the gear logic changes in the form of 0123454321012345.

8. Power-on function

1. When the remote control is powered on, all 5 LEDs light up for 1s, 135 lights up for 1s, and 123 lights up for 1s and then goes out.

2. LED lighting time, 3s off, after sleep, press any key to wake up the remote control, the indicator light status according to the corresponding button corresponding lighting logic indication.

3. The default gear information when powered on is: water temperature 3, seat temperature 3, air temperature 2, nozzle 5, water pressure 3.

4. Power-on default status information: Night light is on by default, automatic flushing is on by default, power saving is off by default, foot sense is on by default, light sense is on by default,

Automatic flip is turned off by default, and gestures are turned off by default.

9. Code matching function

1. Press and hold the Auto/Stop button for 3 seconds, and the remote controller LED1, LED3, and LED5 will flash. At this time, power on the receiver, and the remote controller LED1-LED5 will flash.



If all lights are on for 3 seconds, it means the binding is successful, and then exit the binding mode immediately.

2. If the remote control fails to pair with the code within 30 seconds, it will automatically exit the pairing mode and all LED lights will go out.

3. During the pairing process, press the Auto/Stop button to exit the pairing mode and the LED lights will go out.

10. Restore factory settings

1. If the remote controller loses its batteries, power it back on to restore the default values.

2. After pairing, you must restore the default values when re-pairing is successful.

11. Sleep and wake up

1. The LED light turns off and the remote control goes to sleep immediately.

2. Press any key to wake up the remote control, and the indicator light status will follow the corresponding light logic of the corresponding key.

12. Transmit power adjustment function

1. When you press the stop button to start pairing, the transmitter power will automatically decrease and the pairing distance will be controlled at about 1 meter. During the pairing process, if you press the back wash button, the transmitter power will increase by several levels to make the pairing distance 2-3 meters.

3. Appearance and structure

1. Product pictures



2. Remote control appearance renderings

PANTONE

硅胶颜色要求

硅胶

透明按键

Pantone White C

Pantone black C

丝印

无

塑胶颜色要求

塑胶

Pantone White C

Pantone Cool Gray 9 C

喷漆

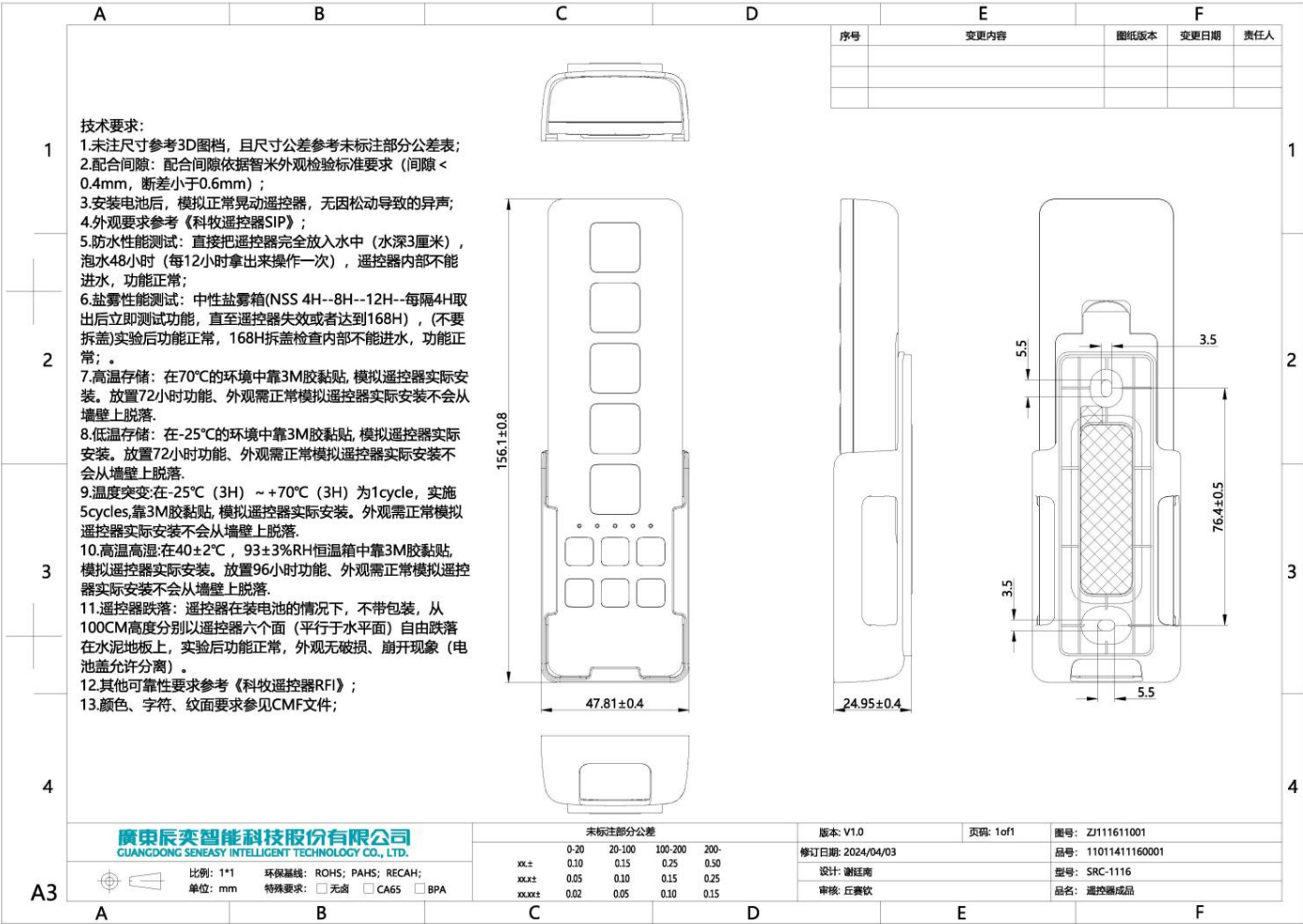
12pt/8pt/7pt 号字体 (例如: 冲刷)

Pantone Cool Gray 4 C

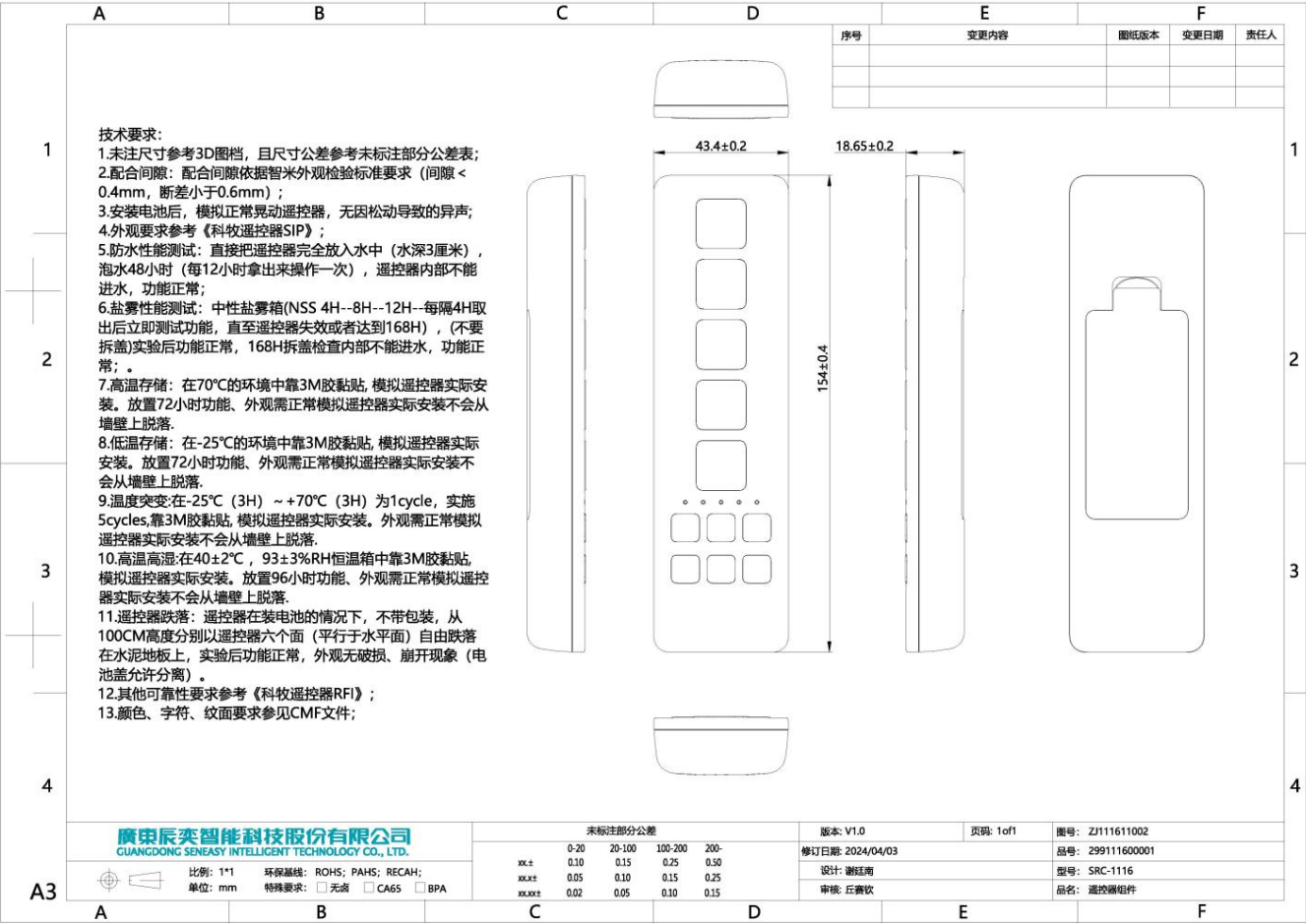
复合按键文字 (例如: 长按自动冲刷)



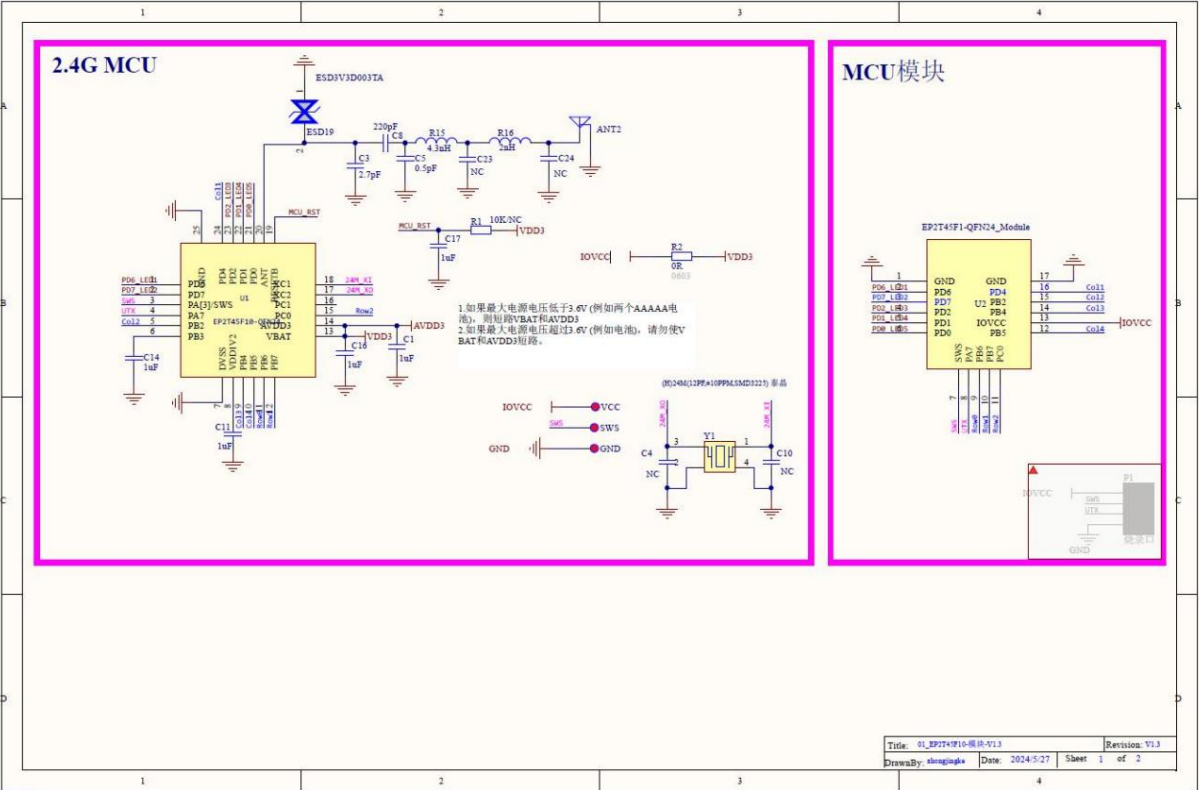
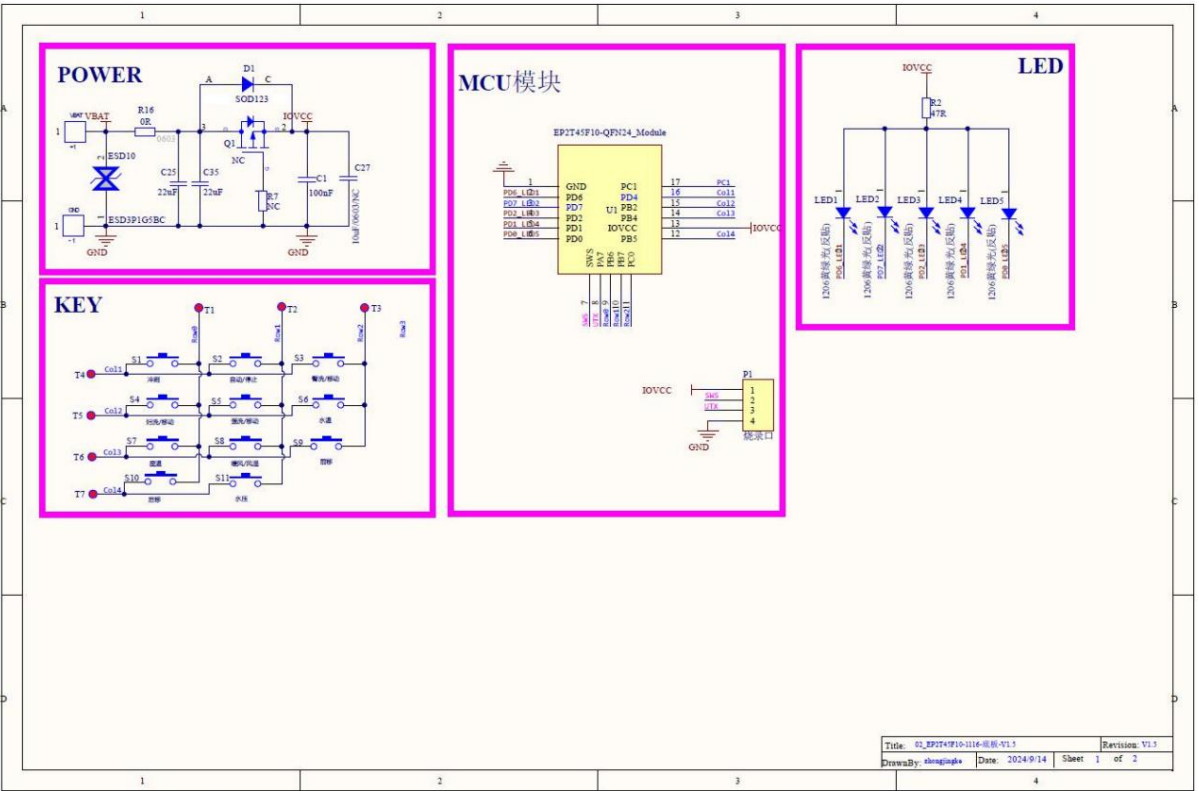
3. Finished product dimensions



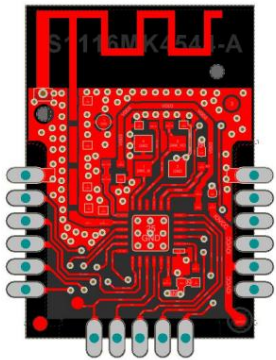
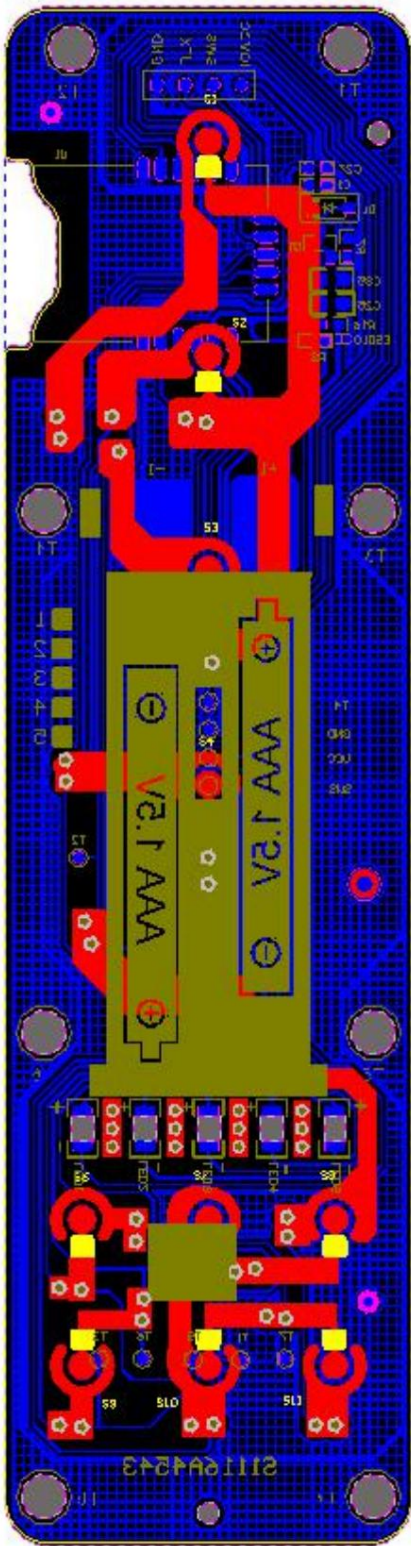
4. Remote control dimensions

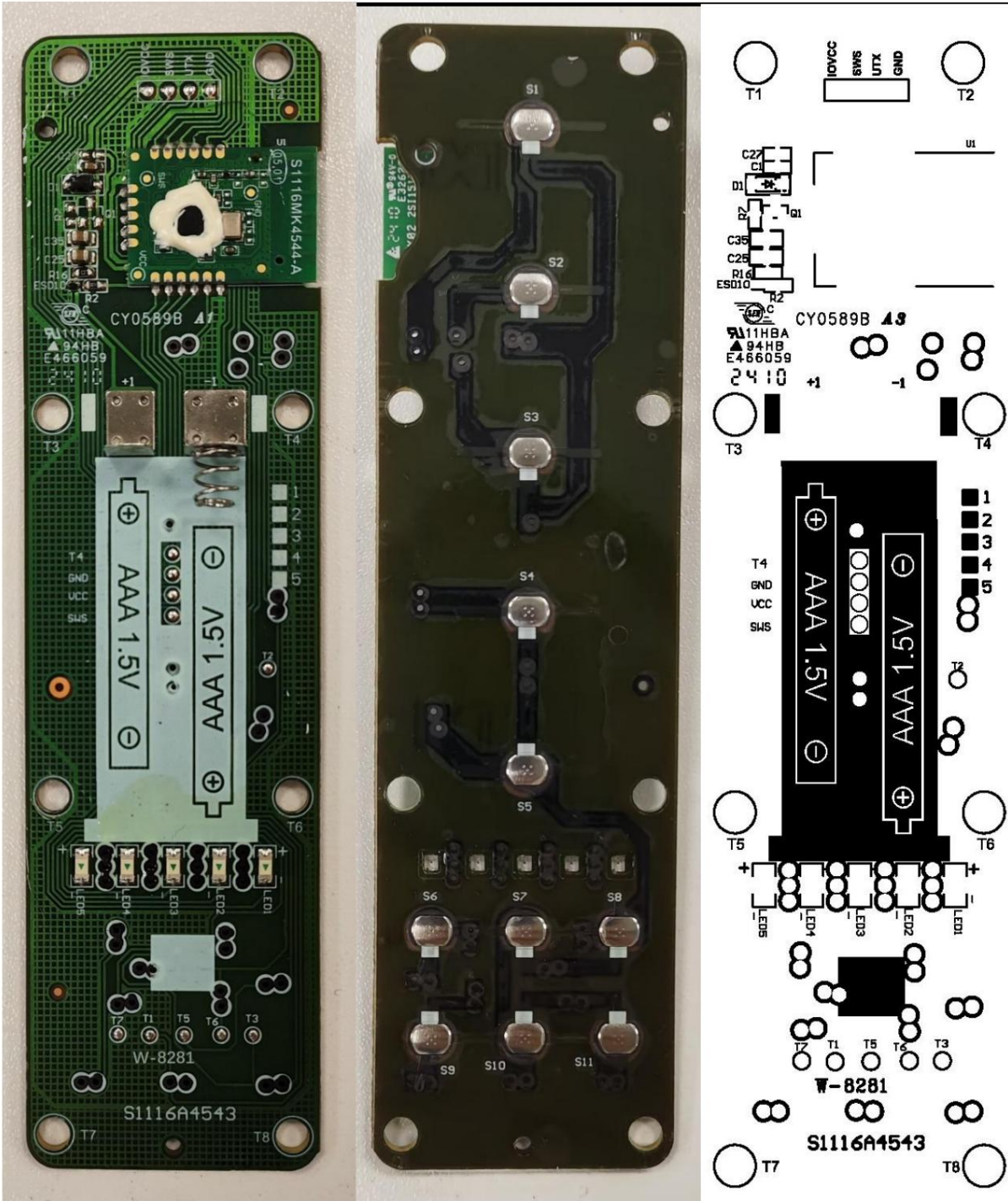


5. Schematic diagram



6. PCB LAYOUT + physical picture





4. Bill of Materials (BOM)

Name Unit		Specification	No. Quantity Base	Category Brand			
AAA-0.55 wire Radius shrapnel	PCS	Environmental attributes: Chenyi baseline model: SRC-1625 Material: Stainless steel nickel-plated wire Packaging process: bag equipment Note: Wire diameter: 0.55mm		1	1	B Good	Craftsman
Conformal coating	PCS	HP-7758 with phosphor 1PCS=1L		2	19400	B Shanghai	Style
WR7168-R9 Glue	PCS	Specification: Model: WR7168-R9 Packing: Tube Format: 300ml/piece 1 piece = 1pcs	FOR U1	1	1875	B Kang	Wancheng
PCB-SRC-1116	PCS	Environmental attributes: Chenyi baseline PCB number: S1116A4543 Length: 140mm Width: 37mm Board Brand 8 Board: 94HB Board Material thickness: 1.6mm Number of layers: 1 Copper foil thickness: 18um copper foil Surface treatment: OSP double-sided board Conductivity: Carbon oil filling button Type: Carbon oil key Special process: None		1	1	B Xiefeng	
SRC-1116 Pot Pieces	PCS	Environmental attributes: Chenyi baseline Model: SRC-1116 Membrane material Specification: PET-25-50-75 Additional film material: No adhesive: Ordinary adhesive Length: 139.4 Width: 37 Shrapnel Material: SUS301 stainless steel nickel plated Number of shrapnel: 11 Shrapnel structure: 5mm diameter, 5-point elastic Force: 160±20gf continuous		1	1	B Xingyan	Dongchen
SRC-0000 AAA Positive shrapnel-01	PCS	Environmental attributes: Chenyi baseline Model: SRC-0000 Material: Stainless steel material thickness: 0.4 length: 8.2mm width: 6mm Treatment: No rivet + nickel plating Packaging process: Taping Adhesive: None [0]	+1	1	1	B Good	Craftsman
AAA-0.55 wire Diameter negative electrode spring	PCS	Environmental attributes: Chenyi baseline model: SRC-1625 Material: Stainless steel material thickness: 0.4 length: 8mm width: 7.2mm Treatment: Riveting + Nickel Plating Packaging Technology: Taping Adhesive: None [0] Note: Spring wire diameter: 0.55mm	-1	1	1	B Good	Craftsman
Chip Capacitor	PCS	±10% 0603 16V 100NF(104) X7R	C1	1	1	C Three	Rings, Fenghua, Yuyang, Weirong,
Chip Capacitor	PCS	±10% 0805 16V 22UF X5R (106)	C25,C35	2	1	C	Samsung
Diode	PCS	First supply: Environmental protection attribute: Chenyi Baseline withstand voltage: 40V Current: 1A Package: SOD-123 Manufacturer model: SBA140AS-AU Second supply: Withstand voltage: 40V Current: 1A Package: SOD-123 Manufacturer Model:SBA140AS	D1	1	1	B	Qiangmao, Liyang, Jingxun, Xindao, ASIM, ON, Anshi
ESD	PCS	Polarity: Bidirectional TVS Current: 8A Package: DFN1006 Junction Capacity: 15PF Manufacturer model: ESD3P1G5BC	ESD10	1	1	B	Jingxun, Xindao, Li Yang, ASIM
SMD LED	PCS	1206 positive yellow-green light (reverse paste) Brand: Lianzhong	LED1,LED2, LED3,LED4, LED5	5	1	B Ourgame	
Chip resistor	PCS	Resistance: 43y Accuracy: ±5% Power: 1/10W Package: 0603 R2		1	1	C	Thick voice, elegance, and prosperity
Chip Resistors	PCS	0603 1/10W ±1% 0R	R16	1	1	C	Dragon, Huaxinke



PCB-SRC-1116 PCS		Environmental attributes: Chenyi baseline PCB number: S1116MK4544-A Length: 28.17mm Width: 17.31mm Board Brand: KB Board Material: FR-4 Sheet thickness: 1.0mm Number of layers: 2 layers of copper foil thickness Degree: 35um Copper foil Surface treatment: 1U" immersion gold double-sided board conduction square Type: Copper Plated Button Type: No Button Special Process: Half Hole Process		1	1	B Shiya	
Chip Capacitor PCS		Environmental properties: Chenyi baseline & [HF] ±10% 0402 10V 1UF(105) X5R	C1,C11,C14, C16,C17	5	1	C	Three Rings, Fenghua, Yuyang, Weirong, Samsung, Yageo, Huawei New Branch
Chip Capacitor PCS		±0.25PF 0402 50V 2.7PF NPO	C3	1	1	C	
Chip Capacitor PCS		Environmental properties: Chenyi baseline & [HF] ±0.25PF 0402 50V 0.5PF NPO	C5	1	1	C	
Chip Capacitor PCS		Environmental properties: Chenyi baseline & [HF] ±5% 0402 50V 220PF NPO	C8	1	1	C	
ESD	PCS	Polarity: Bidirectional TVS Current: 4A Power: 74W Sealed Package:DFN1006 Junction capacitance:0.3PF Manufacturer type Model:ESD3V3D003TA	ESD19	1	1	B	Jingxun, Xindao, Li Yang, ASIM
Chip resistor PCS		Environmental properties: Chenyi Baseline & [HF] 0402 1/16W ±5% 0R R2		1	1	C	Thick voice, elegance, and prosperity Dragon, Huaxinke
Package IC		PCS environmental attributes: Chenyi baseline EP2T45F10ER Package: QFN24 U1		1	1	A Taixin Micro	
SMD Crystal Oscillator PCS		(H)24M(12PF,±10PPM,SMD3225) Taijing	Y1	1	1	A	Taijing, Jingweit, Changxing
Chip Inductor PCS		0402 ±0.3nh 4.3NH 300mA	R15	1	1	C	Fenghua, Sunlord, Qi Lixin
Chip Inductor PCS		Environmental properties: Chenyi baseline & [HF] 0402 ±0.3NH 2NH 300mA	R16	1	1	C	Fenghua, Sunlord, Qi Lixin
SRC-1116 Surface shell	PCS	Environmental attributes: Chenyi baseline SRC-1116 Type: single shell Color injection molding process: Material mold surface: Textured surface Size: 154.00X43.40mm White material ABS color number: II1372 with UV anti-yellowing agent		1	1		Tatsuya
SRC-1116 bottom shell	PCS	Environmental attributes: Chenyi baseline SRC-1116 Type: bottom shell single Color injection molding process: Material mold surface: Textured surface Size: 153.80X43.20mm White material, no silk screen printing, no laser engraving 0 Insert No SN2402018H ABS color number: II1372 with UV anti-yellowing agent		1	1		Tatsuya
SRC-1116 Electric Pool Cover	PCS	Environmental attributes: Chenyi baseline SRC-1116 Type: battery cover Single color injection molding process: Material mold surface: Textured surface ruler Size: 76.40X24.80mm White material No silk screen No laser engraving 0 Secondary insert no SN2402018H ABS color number: II1372 with UV anti-yellowing agent		1	1		Tatsuya
SRC-1116 bottom seat	PCS	Environmental attributes: Chenyi baseline SRC-1116 Type: Base single Color injection molding process: Material mold surface: Textured surface Size: 106.60X47.80mm White material No silk screen No laser engraving 0 Insert No SN2402018H ABS color number: II1372 with UV anti-yellowing agent		1	1		Tatsuya



SRC-1116 Silicon Rubber Buttons	PCS	Note: Transparent silicone Environmentally friendly properties: Chenyi baseline SRC-1116 Size: 131.3X36.6mm Silicone Weight: 6.51 Molding Color: 1C Material: 55° Screen printing No spraying: No 0 Conductive coating: No Laser engraving 0 times adhesive backing specification: no adhesive backing SN2402018H		1	1		Yuan Hong
SRC-1905 bottom Shell sealing silicone	PCS	Color: Black Environmental properties: Chenyi baseline SRC-1905 scale Size: 9.63X7.15mm Silicone Weight: 0.25 Molding Color: 1C Material degree: 40° Adhesive specification: No adhesive SN2308109C		2	1		Yuan Hong
SRC-1116 bottom Shell large sealing silicone	PCS	Color: White. Environmentally friendly properties: Chenyi baseline SRC-1116 Size: 18.8X10.6mm Silicone weight: 0.43 Molding color: 1C Material: 40° Screen printing No spraying: No 0 Conductive coating: No Laser engraving 0 times adhesive backing specification: no adhesive backing SN2402018H		1	1		Yuan Hong
SRC-1905 Electric Pool sealing silicone	PCS	Color: Transparent Silicone Environmental properties: Chenyi baseline SRC-1905 scale Size: 54.43X27.57mm Silicone Weight: 0.75 Molding Color: 1C Material: 40° Adhesive Specification: No Adhesive SN2308109C		1	1		Yuan Hong
Screw package PCS		Environmental attributes: Chenyi Base material: Carbon steel Nut diameter: 6.6 Thread diameter: 3 Nut shape: PA Length: 20 Processing: Cold Pier forming + rubbing + heat treatment + nickel plating Rubber plug Material: PP Diameter: ø4.6 Length: 19.5 Packing: Heat-sealed bag packing/(2PCS Rubber plug + 2pcs screws) for one pack		1	1		Peak Industry
PWB2*3*5	PCS	Environmental properties: Chenyi Base material: Carbon steel Nut diameter: 5 Thread diameter: 2 Nut shape: PWB Length: 3 Processing: Cold Pier forming + rubbing + heat treatment + zinc plating Remarks: CASS8H9 Salt spray Tested, surface corrosion resistance reaches level 10		8	1		Peak Industry
SRC-1116 Dual Surface adhesive	PCS	Environmental attributes: Chenyi baseline model model: SRC-1116 material Material: PET Color: White Thickness: 0.5 Adhesive: 3M VHB-4920 Length: 54.5 Width: 16.5 Printing process: None Process: Die cutting + waste discharge Remarks: There is a hand position		1	1		Huilong
SRC-1116 Plastic Rubber button set	PCS	Environmental properties: Chenyi baseline SRC-1116 Type: Plastic button Single color injection molding process: material + laser engraving mold surface: texture white Material No silk screen No laser engraving 1 time inlay No ABS color number: II1372 with UV anti-yellowing agent		1	1		Tatsuya
[Limited Selection] General Box A04_H205	PCS	Environmental attributes: Chenyi baseline; & [HF] Model: SRC-0000 Material: K=K External length: 560.0 External width: 380.0 External Height: 205.0 Molding process: viscose Printing process: no variable Attributes: None		1	80		Pintai
Single-sided bubble bag PCS		Material: PE bubble bag Bag type: flat bag Color: natural color Weight: 15KG Bag length: 240.0 Folding length: 0.0 Width: 90.0 Number of layers: Single layer Processing technology: Flat mouth		1	1		Hong Yu Fa

V. Test Projects

Serial number NO.	project Item	parameter Parameter	Remark Remark
1	Logo	1. Clean water resistance: 5N/5 times/2cm stroke 2. Adhesion: 3M600 tape 3 times 3. Alcohol resistance: 5N/50 times/2cm stroke	1. No fading or visible peeling after the clean water resistance test 2. No fading or visible peeling after the adhesion test 3. Slight wear/fading is allowed after the alcohol resistance test
2	Appearance	Visual inspection (distance 300-600mm, illumination 1076 ~ 2156LX)	1. The battery cover opens flexibly and firmly, the battery spring has good characteristics, no rust, and no structural looseness 2. No LED cross-talk, normal brightness 3. No obvious sharp corners 4. The IC and SMD LED are coated with HP-7758 three-proof paint with fluorescent powder, preferably with 7168 glue 5. There is no obvious interference or short circuit risk in the internal circuit 6. There is no obvious bad appearance of injection molding 7. There should be no obvious scratches on the friction between the bracket and the back shell 8. There is no risk of warping of the remote control film
3	Visual inspection of fit clearance, plug gauge		1. The clearance is in accordance with the appearance inspection standard of Zhimi (clearance < 0.4mm, step difference less than 0.6mm) 2. After installing the battery, simulate normal shaking of the remote control, and there is no abnormal sound caused by looseness
4	Magnet attraction	Place the remote control on the bracket, push the dynamometer 1mm above the middle of the bracket, and push the remote control forward perpendicular to the bracket until the remote control falls off the bracket. Record the maximum force value at this time and take the average value of 5 times. 	The magnetic attraction between the remote control and the bracket is ≥3N (base test)
5	Button function feel and fixture		1. The buttons are sensitive and feel normal; no sticking or bounce failure. 2. Each button has a corresponding function.
6	Press the buttons on the remote control at a distance of 10M		Functional
7	Remote control pairing function	Press and hold the stop button on the large remote control for 3 seconds, the 1/3/5 LED lights will flash, then release the button; then power on the entire device and start pairing. If the 5 LED lights on the remote control light up for 3 seconds and then go out, the pairing is successful.	1. Can bind successfully and operate the whole machine 2. Other remote controllers cannot operate this whole machine 3. When the remote controller is in the binding state, pressing other (such as radio frequency) remote controllers cannot automatically exit the binding state (normal automatic exit occurs after 30 seconds without binding) 4. The receiving end is powered off and powered on again, and the remote control function must be normal

			5. The remote control is powered off and then powered on again. The remote control function should be normal.
8	Remote control working voltage check	1. Test the DC regulated power supply with 2.6V and 3.5V voltages respectively. 2. Press the remote control button 20 times.	Functional
9	Battery cover plug and unplug	Plug and unplug the battery cover 100 times at 2-3 times/min	There is no abnormality in the remote control: 1. There is no breakage of the hook, etc. 2. There is no obvious change in the disassembly force of the battery cover
10	Shell pressure test	Press the finished remote control shell with a force of 49N for 3 minutes	The finished product is not damaged and all functions are normal
11	Pressing strength	Press the button vertically for 3 minutes with a force of 30N. The finished product is not damaged and all functions are normal.	
12	UV irradiation	UV irradiation for 168 hours, comparing the color difference before and after the test UV, blackboard temperature 60°C, radiation 0.76W/m ³	γEγ7
13	Remote control static operating current	1. Pass rated voltage 3V (2 battery models) 2. Enter static mode	The current should be less than 20uA
14	High temperature storage	Placed in 70y environment for 72 hours with 3M adhesive to simulate the actual installation of the remote control	The function and appearance of the simulated remote control must be normal and the actual installation will not fall off the wall.
15	Low temperature storage	Placed in -25y environment for 72 hours with 3M adhesive to simulate the actual installation of the remote control	The function and appearance of the simulated remote control must be normal and the actual installation will not fall off the wall.
16	Sudden temperature change	At -25y (3H) ~ +70y (3H) for 1 cycle, implement 5 cycles with 3M adhesive, simulate the actual installation of the remote control	The function and appearance of the simulated remote control must be normal and the actual installation will not fall off the wall.
17	High temperature and humidity	The sample was placed in a constant temperature box at 40±2y, 93±3%RH for 96 hours and glued with 3M adhesive to simulate the actual installation of the remote control	The function and appearance of the simulated remote control must be normal and the actual installation will not fall off the wall.
18	Working in high and low temperature environment	After pairing: 1. Place (receiving module) at -20y for 8 hours, place the remote control at -20y for 8 hours, and check whether it can be operated. 2. Place (receiving module) at 60y for 8 hours, place the remote control at 60y for 8 hours, and check whether it can be operated. 3. Place (receiving module) at -25y for 8 hours, place the remote control at 60y for 8 hours, and check whether it can be operated. 4. Place (receiving module) at 60y for 8 hours, place the remote control at -25y for 8 hours, and check whether it can be operated.	It needs to be able to operate accordingly without losing code
19	Remote control battery installation is abnormal	1. The batteries of the remote control were installed backwards and left for 48 hours (to check whether the circuit has protection settings) 2. There is a battery polarity mark on the structure	1. The function is normal after the experiment 2. The structural design is foolproof

		3. The structure has a reverse battery installation prevention design 4. Install various brands of batteries (such as White Elephant, etc.) to see if the spring force is too loose or too tight, whether the battery is damaged, whether there is any abnormal sound when shaking the hand, etc.	
20	Interference Test	1. Cooperate with the whole machine 2. Simulate various environments of the bathroom 2.1 Fluorescent lamp 2.2 Turn on the bathroom heater	Functional
21	Software BUG	1. Remote control software BUG (with whole machine test)	Functional
22	Special environment verification	Remote control neutral salt spray chamber (NSS 4H--8H--12H--take out every 4 hours and test the function immediately until the remote control fails or reaches 168 hours) NSS test chamber temperature 35°C, saturated barrel temperature 47°C, salt density 1.029-1.036, pH value 6.5-7.2	1. Neutral salt spray time is at least 32 hours 2. (Do not remove the cover) The function is normal after the experiment 3.168H Remove the cover and check that there is no obvious corrosion inside
23	Salt spray test	The test chamber temperature is 35 degrees, the saturated barrel temperature is 47 degrees, and the configuration Ph value 3.0-3.1	1. Salt spray requirements: CASS 9h, surface corrosion resistance reaches level 10 2. Disassemble and inspect the interior to find no obvious corrosion
24	Waterproof performance test	1. Test according to IPX4 standard 2. Test according to IPX5 standard, which requires outsourcing 3. Test IPX6	The remote control cannot be flooded and functions normally.
25	Waterproof performance test	Put the remote control completely into water (3 cm deep) and soak it for 48 hours (take it out and operate it every 12 hours)	The remote control cannot be flooded and functions normally.
26	Remote control dropped	The remote control is installed with batteries, without packaging, from The remote control is dropped freely on the concrete floor from a height of 100cm on six sides (parallel to the horizontal plane)	After the experiment, the function is normal, and the appearance is not damaged or broken (the battery cover can be separated)
27	Remote control operating life	1. The key pressure is about 10-15N, and it is operated every 2S. 2. After continuous operation for 100,000 times, each key is operated 10 times without abnormality and the hand feeling is normal. 3. The key life is at least 4 times (big flush, defecation, seat temperature increase, wind temperature decrease). 4. After 100,000 times, it is tested again for 200,000 times. After the test, each key is operated 10 times without abnormality and the hand feeling is normal.	1. The buttons feel good after life. 2. After the test, operate each button 10 times without abnormality, and the veneer should not be cracked. 3. After the 100,000 test, a report will be issued first. 4. Use Nanfu or White Elephant batteries for life.
28	EFT Test	Voltage 4KV, frequency 5KHz, the remote control is placed on the input power line	4KV remote control function cannot be disabled
29	Electrostatic discharge is greater than level 3 (contact discharge 8KV, air discharge 15KV)	All functions must be normal	

6. Notes

- 1. Environmental protection: All materials comply with the latest RoHS requirements
- 2. Others: According to the product sampling ratio AQLy: 0.65 standard, conduct sampling inspection and meet the indicators

7. Packaging specifications

Packing quantity	80pcs
Packing layers	1
Packing material	Carton
Packing specification	560*390*205mm

Packing Guidelines

包装袋

需求

☒ 需要 ☐ 不需要

纸裹

需求

☐ 需要 ☐ 不需要

卡
通
箱

装箱方式

☐ 彩包, 产品头部朝 ____ 放置

☒ 工包, 每个卡巢放置 2 pcs产品, 产品 ☒ 面对面 ☐ 背对背放置 ☐ 面对背放置; 头部 ☐ 朝上 ☒ 朝下 ☐ 头尾颠倒装入卡通箱内。

☐ 其他, _____

封箱方式

☐ 一字型 ☒ 工字型 ☐ 王字型

胶带

☐ 专用胶带 ☒ 普通透明胶带

说明

本图仅作包装指引, 具体零件内容及尺寸请参考零件图, 装箱数量同BOM基数

透明PET胶纸样式如下:

配件包包装方式:

用透明PET胶纸如图缠绕配件包, 粘贴在挂架上(胶纸用量90mm)

隔板

蜂巢刀卡

隔板

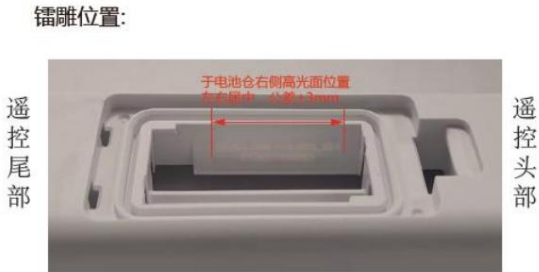
纸箱

封箱胶纸

客户外箱贴纸

展突出货外箱贴纸

Laser engraving diagram



8. Supplementary items

none

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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 Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

ISED Statement

English: This device contains licence-exempt transmitter(s)/receiver(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.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux RSS exemptés de licence d'Innovation, Sciences et Développement économique Canada.

L'exploitation est soumise aux deux conditions suivantes :

(1) Cet appareil ne doit pas provoquer d'interférences.

(2) Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.

L'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 6.3 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 6.3 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

RF Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

L'appareil a été évalué pour répondre aux exigences générales d'exposition aux radiofréquences.

L'appareil peut être utilisé en condition d'exposition portable sans restriction.

This equipment should be installed and operated with minimum distance 0mm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 0mm entre le radiateur et votre corps.