



股票代码: 001308

产品规格书

SPECIFICATION

客户: 深圳市康冠科技股份有限公司
CUSTOMER : Shenzhen KTC Technology Group

KTC产品名称: 全球 中性 英文 黑色 数模智能 蓝牙语音遥控器 RC-S07-39 协议:NEC 客户码:
DESCRIPTION: 4040 无客户LOGO+无型号丝印 38KHz 39系列 Google TV 平台 (Actions ATB1113)

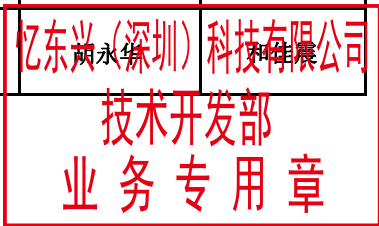
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MATERIAL CODE:

供应商产品名称: YDX-172
SUPPLIERPRODUCT NAME:

供应商物料编码: 172-T01
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修订履历

REVISION HISTORY

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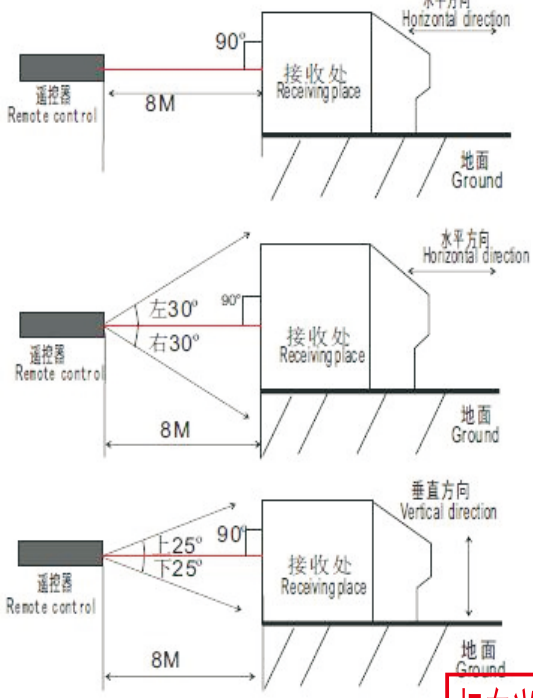
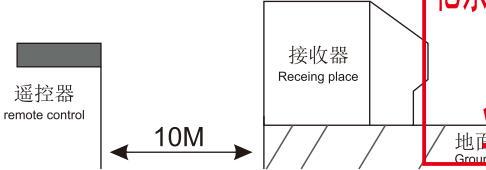
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四. 产品信息及要求/ PRODUCT INFORMATION AND REQUIREMENTS

编号/NUMBER	项目/ITEM	内容/CONTENT	判定标准/JUDGEMENT STANDARD	测试结果/test result
1. 结构外观 ENGINEERING DRAWING	尺寸, 净重, 毛重(带包装袋) Size, net weight, gross weight(with package)	尺寸: 45.7*165.3*15.4mm 净重: 58.1g 毛重: 60.1g	按包装要求 According to packing requirements	正常
	遥控器包装及标签 Remote control package and label	见包装说明报告 SEE PACKING SPECIFICATION	按图文资料	正常
	按键材质(金属锅仔片/塑胶锅仔片/碳粒) Button material (metal pan pieces/plastic pan pieces/carbon particles)	金属锅仔片 metal pan pieces	弹力130g±20g Elastic force130g±20g	正常
	外观 Appearance	下列项目均目测确认: The following items were visually confirmed: 1. 划伤、油污、割裂、变形 1. Scratch, contamination, rupture, deformation 2. 印刷图形及文字 2. Printed graphics and text 3. 壳体配合 3. Shell fit 4. 表面 4. surface	1. 无上述各现象 1. None of the above phenomena 2. 清晰、均匀、整齐, 色差不允许超过两个色号 2. Clear, uniform, neat, Chromatic aberration isn't allowed more than two Pantone Num 3. 无翘起、变形、裂缝 3. Without tilting, deformation and crack 4. 材质均匀、颜色一致 4. Materialis uniform, the color is consistent	正常
	材质 Material	遥控器发射盖: PC50%黑色高光, 表面高光处理 Remote control emission cover: PC50% black highlight, surface highlight treatment 遥控器面壳: 采用材料ABS+黑色哑光烛火花纹, 烛纹以亮纹处理 Remote control shell: ABS+ black matte candle pattern is used, and the candle pattern is treated with bright pattern 遥控器按键: 黑色硅胶材质, 普通抛光, 按键高度1mm Remote control buttons: made of black silicone, polished, with a button height of 1mm 遥控器底壳: 采用材料ABS+黑色哑光, 烛火花纹 Remote control bottom shell: ABS+ black matte, candle pattern 蚀纹的规格是VD130 The etching specification is Vd130	符合 RoHS&REACH Comply RoHS&REACH	正常

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2.机械性能 MECHANICAL BEHAVIOR	按键工作的负荷力 Buttons force	按键工作的负荷力，按键平面中 央垂直施加的最小负荷力 $F=130g \pm 20g$; Load force of key operation, in key planeMinimum load force applied vertically by the center $F=130g \pm 40g$;	测定时以中心为基准 To center as a benchmark	正常
	按键高度 Buttons height	按键未按下的高度 $H < 3mm$ /height h button unpressed $H < 3mm$ 按键按下起作用时的高度 $H1$ 不 能低于上盖面 /height $H1$ shall not be lower than the upper cover when the button is pressed and the RC is working	① $H = 0.8 \pm 0.2mm$ ② $H1 = 0.2 \pm 0.2mm$	正常
	按键强度 Buttons strength	在按键平面中央垂直施加30N 的负荷力3 分钟 Apply 30N vertically in the center of the buttons plane for 3 minutes	按键无损坏，各功能正常 Buttons are not damaged, all functions should be normal	正常
	按键的负荷寿命 Life of Buttons	以3-5次/秒的按压频率按键 $\geq$ 20万次，不到位次数小于或等 于0.5% Press the button with the frequency of 3-5 times /second more than 200,000 times, and the number of times not in position is less than or equal to 0.5%	按键无损坏，各功能正常 Buttons are not damaged, all functions should be normal	正常
	按键的复位 Reset button	分别在按键平面1/4 位置的左 端和右端及按键的左、右、前 、后侧面施加10N的力，按压 三分钟 Apply 10N force on the left end and right end of 1/4 position of the button plane and the left, right, front and back side of the button respectively, press for 3 minutes	按键无损坏，各功能正常 Buttons are not damaged, all functions should be normal	正常
	遥控器耐压强度 Remote control pressure resistance	遥控器整体的耐压强度，遥控 器装好电池，对其正面和底面 分别施加100N垂直力15 秒， Remote control overall pressure strength, remote controllInstall the battery on the front and bottom of the deviceApply 100N vertical force for 15 seconds,	遥控器无损坏且功能正常 Remote control is not damaged and all functions should be normal	正常
	电源盖板插拔寿命 Power cover plug life	以2-3次 / 分钟插拔频率插拔 电源盖板不少于100次 Plug and cover the power cover at a frequency of 2- 3 times/min not less than 100 times	无异常 Without exception	正常
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3.使用规格 USE GUAGE	工作环境 Work environment	-10℃-50℃	无异常 Without exception	正常
	贮存温度 storage temperature	-20℃-60℃	无异常 Without exception	正常
	电池规格 Battery Specification	锰或碱干电池7号×2 个 2 Pcs manganese or alkaline dry battery 7	符合国标电池 (standard battery)	正常
4.电气参数 ELETRICAL PARAMETERS	蓝牙芯片型号 Bluetooth chip model	ATB1113		正常
	静态电流 Static Current	电源电压 DC3V Power supply voltage DC3V	< 3uA	正常
	工作电流 Working current	电源电压 DC3V Power supply voltage DC3V	< 30mA	正常
	工作电压 Working voltage	DC 3V	2.4V-3.3V	正常
	工作功率 Working power	正常工作 Normal working	≤100mW	正常
	载波频率 Carrier frequency	2400-2480MHz DC3V	规定值±0.3 KHZ	正常
	发射距离 Emission distance 电源电压DC3V，解码仪 DC3V, decoder instrument			正常
	无线蓝牙遥控距离 Wireless Bluetooth remotecontrol distance			正常
	无线匹配性测试 Wireless matching test	在无干扰源状态下与整机100次匹配 Matching with the machine 100times without in the state of no interference source	不出现匹配失败，且每次匹配成功后功能正常 Matching failure does not allowed to occur, and the function should be normal after each test	正常
	无线连接稳定性测试 Stability of wireless connection test	与机器匹配后连接12小时 Connect with the machine for 12 hours after matching	中间断开次数不得超过10次，每次时长不得超过6S The number of intermediate disconnection shall not exceed 10 times, and not longer than 6S per time.	正常
	红外光峰值辐照度 Peak irradiation of infrared light	额定工作电压 rated operational voltage	轴上≥40 μW/cm² 圆锥角>30°，≥20 μW/cm² Infrared: On the Stalk≥40 μW/cm² cone angle>30°，≥20 μW/cm²	正常
	欠压状态:红外光峰值辐照度 Undervoltage state: Peak irradiation of infrared light	额定工作电压的75% 75% of rated operational voltage	轴上≥20 μW/cm² 圆锥角>30°，≥10 μW/cm² Infrared: On the Stalk≥20 μW/cm² cone angle>30°，≥10 μW/cm²	正常

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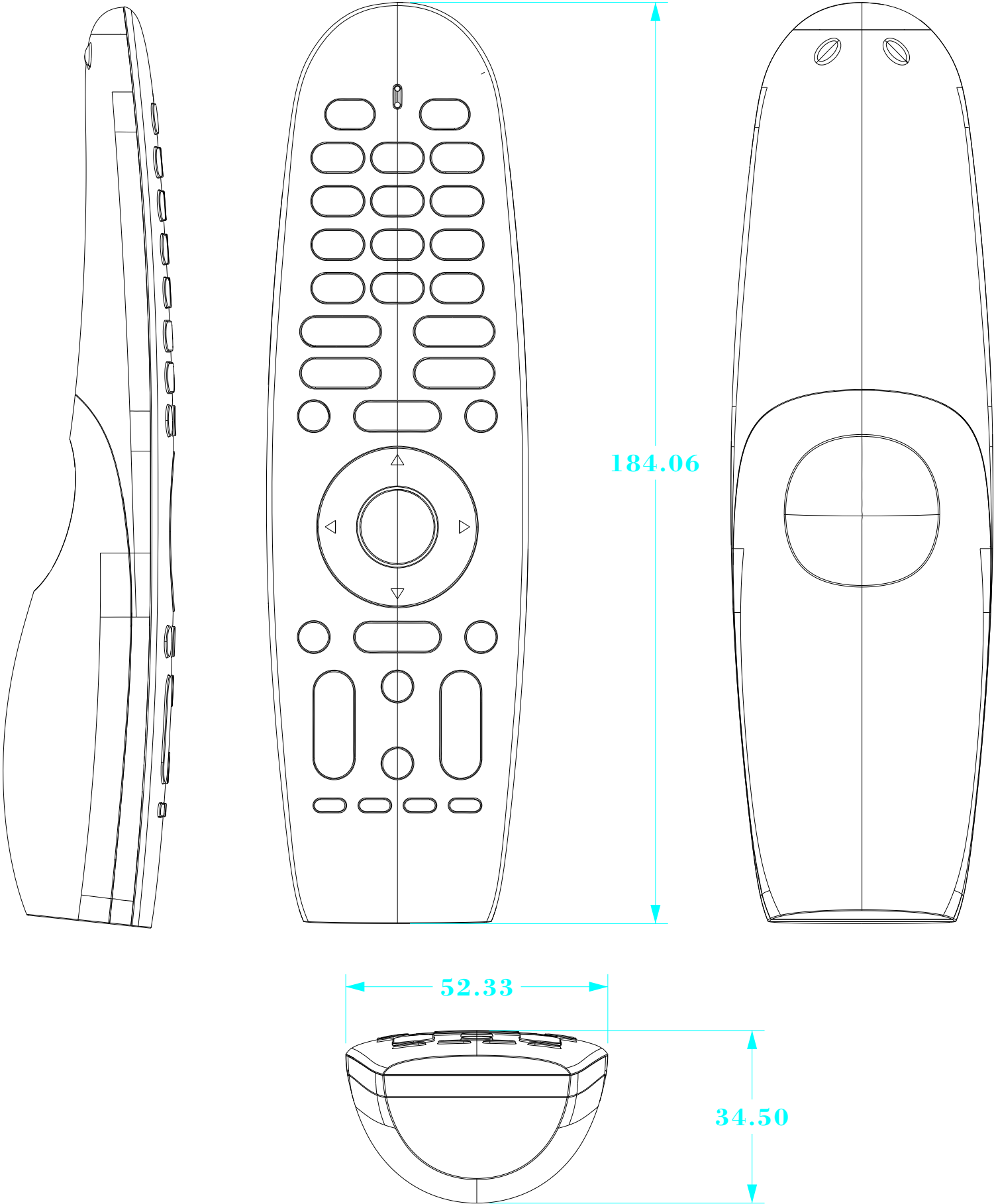
5.耐候性能 WEATHERING PERFORMANCE	高温贮存 High temperature storage	在温度55℃下搁置48小时，恢复2小时后测试 Put the RC under the temperature of 55 °C for 48 hours, then test the RC after 2 hours' recovery	无异常 Without exception	正常
	恒定湿热贮存 Constant heat and humidity storage	在温度40℃下，相对湿度98%的条件下搁置48小时，恢复4小时后测试 Put the RC under temperature 40 °C, relative humidity 98% for 48 hours, then test the RC	无异常 Without exception	正常
	低温贮存 Low temperature storage	在温度-25℃下搁置48小时，恢复2小时后测试 Put the RC under the temperature of -25 °C for 48 hours, then test the RC after 2 hours' recovery	无异常 Without exception	正常
	温度变化贮存 Varying temperature storage	遥控器承受如下的温度变化实验5个循环后，即：室温->-10℃（3小时）->40℃（3小时）->室温，恢复2小时后测试 RC experiment under the following temperature changes after five cycles : room temperature - > - 10 °C (3 hours) - > 40 °C (3 hours) - > at room	无异常 Without exception	正常
	振动实验 The vibration test	a.水平方向振动：频率10-20-10Hz 位移0.75mm, 轴线扫频5个周期 A. Frequency of 10 - 20 - 10HZ, displacement is 0.75mm, axis frequency sweep 5 cycle	无异常 Without exception	正常
		b. 频率30-55-30Hz 位移0.75mm, 轴线扫频5个周期 BThe frequency of 30-55-30Hz is displaced by 0.75, and the axis frequency is swept for 5 cycles	无异常 Without exception	正常

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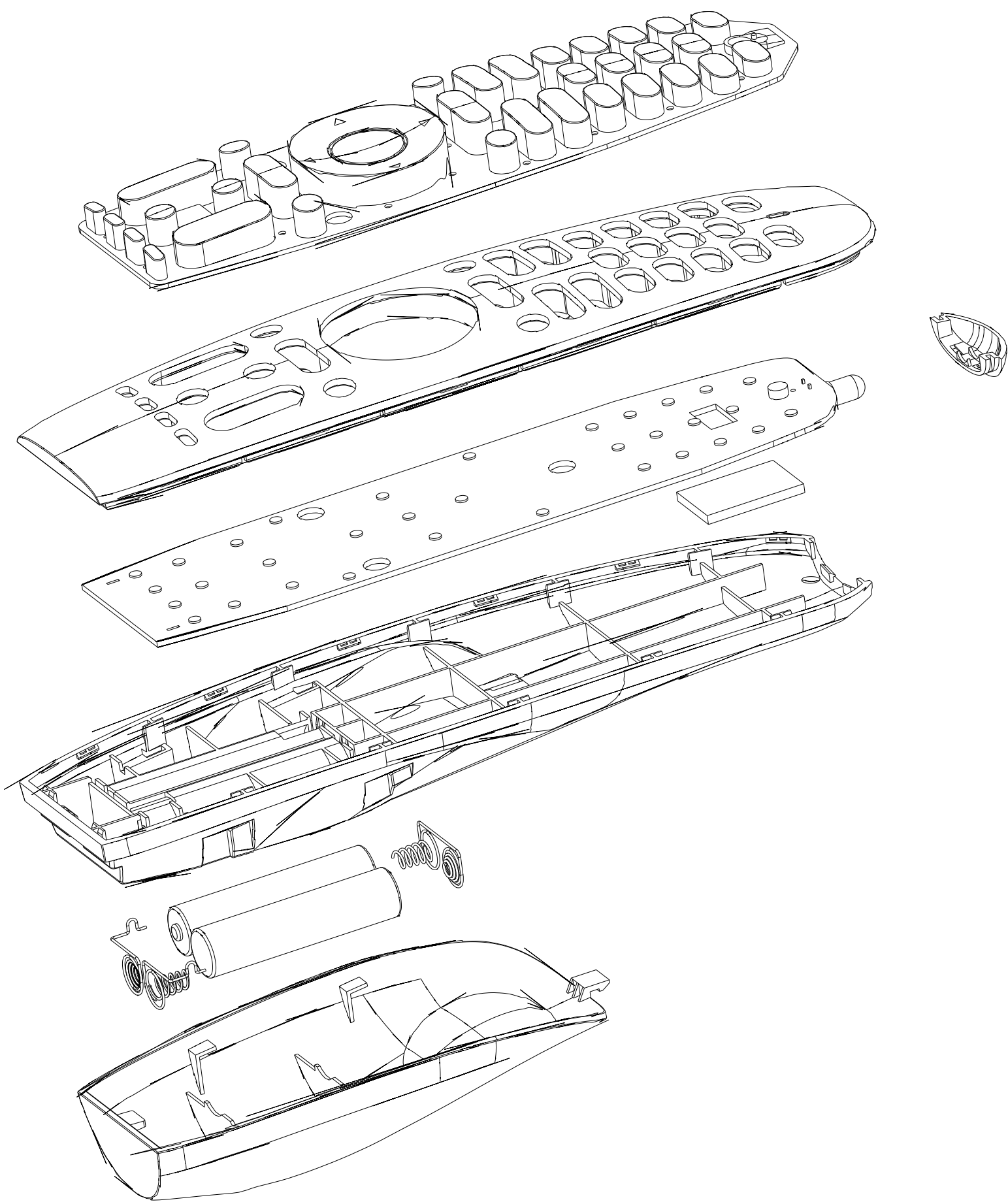
5.耐候性能 WEATHERING PERFORMANCE	跌落试验 Drop test	在遥控器装有电池的条件下，不带包装，从80cm 高度自由跌落在不小于3cm厚木板上，遥控器的跌落面应与冲击面平行，每个面(共6个面)各跌落三次 Under the condition of remote control with batteries, without packing, free fall on a height of 80 cm on the plank thicker than 3cm, the fall of the remote control surface should be parallel to the strike face, each side (total 6 sides) fell three times	结构应无断裂，功能正常 The structure should be faultless, all functions should be normal	正常
	耐温水 Heat water resistance	能耐60℃的温水，60℃的温水滴在遥控器表面三个不同的部位上包括字符图形符号部位，用软布擦干 It can withstand 60 degrees of warm water, 60 degrees of warm water dripping on the surface of the remote control three different parts including characters and symbols , then wipe with soft cloth.	遥控器的表面色调不起变化，字符标志不被擦掉 The surface color of the remote control should not change, and character marks should not be erased.	正常
	字符、标志、涂饰部分的附着力 The adhesion of characters, signs, and finishing parts	用粘附力为2 - 3.5N/cm的透明胶带粘遥控器的字符、标志和涂饰部分 Use the adhesive tape with 2 to 3.5N/cm to stick the character, logo and finishing part of the remote controller.	3M胶纸粘贴，按压垂直拉起，重复三次，无脱落现象 Paste with 3M adhesive tape, press and pull vertically, repeat three times. No falling off	正常
	耐溶剂性 Solvent resistance	1. 用浸有20%的食盐水、无水乙醇分别擦拭遥控器表面三个不同部位上包括字符图形符号部位30次 Wipe three different parts on the surface of the remote control respectively with 20% salt water and anhydrous ethanol, including the symbol parts of characters and figures 30 times 2. 将食用油用滴管滴在遥控器表面三个不同部位包括字符图形符号部位，1h 后用软布擦干 Drop the cooking oil into three different parts on the surface of the remote control, including the characters and symbols. Dry with a soft cloth after 1h	95%酒精粘软布，500g重力垂直，对丝印字符来回30次摩擦 表面硬度和外观无异常 字符图形符号清晰 95% alcohol adhesive soft cloth, 500g gravity vertical, 30 times friction on silk screen characters, no abnormal surface hardness and appearance, clear character graphic symbols	LOGO>100次 硅胶 黑色OK键>200次 其它硅胶丝印按键 >100次。合格 Logo > 100 times, silica black OK key > 200 times, other silica screen printing keys > 100 times. qualified

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五. 外观尺寸图/DIMENSIONS FIG



五. 装配图/ASSEMBLY DRAWING



六.软件功能software function

6.1 配对及解配Pairing and unmatching

同时按住遥控器的  和 **主页**  3 秒，遥控器清楚配对信息，进入配对模式，先闪一下灯，配对过程中的红灯闪烁频率为 2Hz，配对距离为 20 厘米到 1.5 米。如配对成功，遥控器红灯长亮 3 秒；如 30 秒后配对失败，红灯熄灭。设备名： **'RC-39'** 。工厂测试中，测试完毕后，测试软件会发出命令清除遥控器的配对信息。

At the same time, press and hold the remote controller for  and  3 seconds, The remote controller lists the pairing information, enters the pairing mode, and the flashing frequency of the red light in the pairing process is 2Hz in the actual pairing process, and the pairing distance is 20 cm to 1.5 meters. If pairing is successful, the red light of the remote control stays on for 3 seconds; if pairing fails after 30 seconds, the red dot goes out Equipment name: **'RC-39'** during factory test, after the test is finished, the test software will issue a command to clear the pairing information of the remote controller.

6.2 回连Huilian

在 4米处遥控器与电视机保持连接至少 1 小时，不出现断连；在有配对信息并且蓝牙连接断开的情况下，按下任意键发送对应的红外码，并且发送回连广播 5秒，回连成功指示灯闪3次。在有配对信息的情况下，遥控器上电发送回连广播 5 秒，回连成功，指示灯闪3次。

At 4 meters, the remote control is connected to the TV for at least 1 hour without disconnection. If the pairing information is available and the Bluetooth connection is broken, press any key to send the corresponding infrared code and send it back to broadcast for 5 seconds, return the success indicator light to Flash 3 times.In the case of matching information, the remote control power back to broadcast 5 seconds, back to success, the indicator Flash 3 times.

6.3 休眠及唤醒Sleep and wake up

未进行任何数据交互时，遥控器保持连接并进入休眠状态，遥控器不主动进入断连状态。按任意键唤醒遥控器，如还在连接状态，则发送对应按键的蓝牙码值；如已进入蓝牙连接断开状态，则进入回连状态。

Without any data interaction, the remote control to maintain the connection and enter the dormant state, the remote control does not actively enter the state of disconnection. Press any key to wake up the remote control, if it is still connected, send the corresponding key bluetooth code value, if the Bluetooth connection has entered the state of disconnection, into the back-connected state.

6.4 OTA

在电视机开机启动时，检测遥控器升级文件，若存在升级文件，遥控器进行 OTA 升级，LED 灯呈呼吸灯闪烁。此时遥控器不可使用，任何按键无响应，升级成功后，LED 灯停止闪烁，此时遥控器可正常使用，若升级失败下次开机时再次检测并升级。OTA 失败后，LED 灯停止闪烁，遥控器退回老版本正常运行。

When the TV is turned on, the upgrade file of the remote controller is detected. If the upgrade file exists, the remote controller performs OTA upgrade, and the LED lamp flashes in breathing light Shuo. At this time, the remote controller can't be used, and any buttons don't respond. After the upgrade is successful, the LED light stops flashing, and the remote controller can be used normally at this time. If the upgrade fails, it will be detected and upgraded again at the next boot. After OTA fails, the LED light stops flashing, and the remote controller returns to the old version for normal operation.

6.5 低电压提示 Low voltage prompt

电池电量低于 2.4V 时，每次用户按键，则红灯闪烁3s，频率1Hz

When the battery power is lower than 2.4V, Every time the user presses a key, Press any key, the red light flashes for 3s, and the frequency is 1Hz

6.6 单载波测试 久按 “音量- **上电** ，遥控器进入单载波模式，发送频率为 2440MHz、功率为芯片最大功率的单载波，松开 音量- 后退出单载波模式。

Single-carrier test Press and hold "  "to power on, and the remote controller enters the single-carrier mode, sending the single-carrier with the frequency of 2440MHz and the maximum power of the chip, and releasing "Volume-"to exit the single-carrier mode.

6.7 指示灯状态Indicator status

红外模式Infrared mode	按键Key	按键不亮灯Keys do not light up
蓝牙模式Bluetooth mode	按键Key	按键不亮灯Keys do not light up
配对Pair	配对Pair	红灯闪烁 30 秒，频率 2Hz The red light flashes for 30 seconds at a frequency of 2Hz
	配对成功Pairing succeeded	红灯长亮 3 秒The red light stays on for 3 seconds
	配对失败Pairing failed	红灯熄灭The red light goes out
低电压状态 Low voltage state	按键Key	按任意键红灯闪烁 3 秒，频率 1 Hz Press any key and the red light flashes for 3 seconds at a frequency of 1 Hz

6.8 多按键不发码Multi-key does not send code

不要求多按键不发码功能.Multi-key no-code function is not required.。

