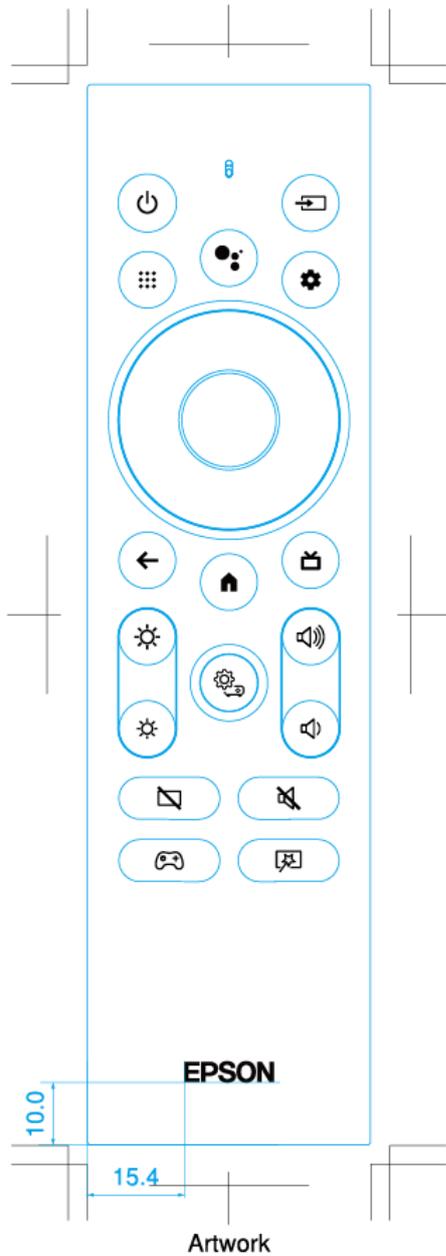


使用说明书  
Instruction Manual

# 一、遥控器效果图 Remote control renderings



■ 色指定 / Color

- ・ 電源 / Power icon : Pantone 7459C (DIC C-256 中国の伝統色)
- ・ Voice Assistant : Button Color : White  
: Print Color : Pantone 1795C  
: Pantone 2173C  
: Pantone 7549C  
: Pantone 2257C
- ・ ハイライト / Highlight Keys : Button Color : White  
: Print Color : Black
- ・ その他 / Other Keys : Button Color : Black  
: Print Color : White

**Confidential** Scope of disclosure :  
VP Division, Askey Computer and Weida Only

<b>EPSON</b> EXCEED YOUR VISION		版下データ Art Work Data	Scale <b>1/1</b> 単位 /Unit:mm	<b>Confidential</b> 開示範囲: VPデザイン部 VP企画設計部 VP生産技術部
版下作成部門 Art Work Making Section		機種名 Model	HA90	
VP Design Department		部品名 Part Name	Remote Controller(SMF2-4K)(W.W)	
承認 Approval	確認 Check	担当 Charge	見上	
関連文書 /Related Document :		版下 No. Art Work No.		
作成日 /Date : 2021.10.15		Data File Name	Remote Controller(SMF2-4K)(W.W).cs2.ai	

付図2: GC-0089

## 二、遥控器功能需求描述 Description of remote control function requirements

### 1、按键功能描述 Button function description

序号 Serial number	按键 Button	功能描述 Function description
1	 Power	对盒子执行睡眠/唤醒 Sleep/wake up the box
2	 Input	
3	方向上 Up	向上移动焦点/音量+ Move focus/volume up+
4	方向下 Down	向下移动焦点/音量- Move focus/volume down-
5	方向左 Left	向左移动焦点/快退/切换至上一频道 Move focus left/rewind/switch to the previous channel
6	方向右 Right	向右移动焦点/快进/切换至下一频道 Move focus right / fast forward / switch to the next channel
7	确认 Enter	进入当前选中焦点所指页面/暂停播放/执行按钮所提示命令 Enter the currently selected focus page/pause playback/execute the command prompted by the button
8	 Apps	
9	 Voice	(蓝牙配对连接后才起作用) (It only works after Bluetooth pairing and connection)
10	 Settings	Set up shortcut keys
11	 Esc	返回上一级或上一页面 Return to the previous level or page
12	 Home	在任意界面均退回至系统级主页 Return to the system-level homepage in any interface
13	 Guide	Guide shortcut keys
14	 Bright+	增加亮度 Increase brightness
15	 Bright-	减小亮度 Reduce brightness
16	 PJ menu	
17	 Vol+	增加音量 (全局适用, 此按键只有一种操作) Increase volume (applicable globally, this button has only one operation)
18	 Vol-	减小音量 (全局适用, 此按键只有一种操作) Decrease the volume (applicable globally, this button has only one operation)
19	 V mute	

20		A mute	
21		Game	
22		V Effect	

## 2、遥控器键值 Remote control key value

系统码: System code:	0X8103
码格式: Code format:	NEC

No.	Funtion	IR	Usage Page	Usage ID
1	Home	60	0X0C	0223
2	ESC	61	0X0C	0224
3	Enter	62	0X0C	0041
4	Up	63	0X0C	0042
5	Right	64	0X0C	0045
6	Down	65	0X0C	0043
7	Left	66	0X0C	0044
8	Voice	73	0X0C	0221
9	Settings	67	0X0C	019F
10	PJ Menu	70	0X0C	022D
11	Apps	75	0X0C	01A2
12	Guide	76	0X0C	008D
13	Power	82	0X0C	0030
14	Vol+	84	0X0C	00E9
15	Vol-	85	0X0C	00EA
16	V Mute	86	0X0C	022F
17	Input	9E	0X0C	0230
18	Brightness+	20	0X0C	0232
19	Brightness-	21	0X0C	0233
20	Video Effect	8A	0X0C	0188
21	A Mute	88	0X0C	00E2
22	Game	8B	0X0C	008F

### 3、遥控器操作说明 Remote control instructions

#### 1.遥控器基本要求 Basic requirements for remote control

1).当连上蓝牙，遥控器发送蓝牙键值；未连接上蓝牙，则发送红外键值。

1). When Bluetooth is connected, the remote control sends the Bluetooth key value; when Bluetooth is not connected, the infrared key value is sent.

2).指示灯：红外：红色，每按一次按键，指示灯闪一下。

2). Indicator light: infrared: red, each time you press the button, the indicator light flashes once.

3). 低电压提醒：电量低于 2.4V 时，指示灯快速闪烁，只要还在操作，就一直保持闪耀状态，当不再对遥控器进行操作后，闪烁 5 次或闪烁 3 秒后，停止并熄灭。

3). Low voltage reminder: When the battery is lower than 2.4V, the indicator light flashes quickly, as long as it is still in operation, it will keep flashing. When the remote control is no longer operated, it flashes 5 times or flashes for 3 seconds and then stops And goes out.

#### 4).配对方法：

a.同时按遥控器上的“ENTER ” + “HOME” 三秒,发送对码信息；

b.没配对成功时，如果还在按“ENTER ” + “HOME” 键就要一直发配对广播，以使用户可以配对。

c.按一次“ENTER ” + “HUME” 键就要能配对成功，不要反复清除配对再配对。一次按键配对成功后可以不再发配对广播，直到下次重新按键。

Connection interval < 12ms

#### 4). Pairing method:

a. Simultaneously press “ENTER ” + “HUME” on the remote control for three seconds to send the code matching message;

b. If the pairing is not successful, if you still press the “ENTER ” + “HUME” keys, you must keep sending the pairing broadcast so that the user can pair.

c. Press “ENTER ” + “HUME” key once to successfully pair. Don't clear the pairing and pair again. After a key pairing is successful, the pairing broadcast can no longer be sent until the next time the key is pressed again.

Connection interval < 12ms

5).按键超时：如果连续按下下一个或多个按键超过 30 秒，则遥控器停止传输以保护电池放电。

5). Key timeout: If one or more keys are continuously pressed for more than 30 seconds, the remote control will stop transmission to protect the battery from discharging.

6).遥控距离：≥10m

6). Remote control distance: ≥10m

7). 蓝牙设备名称：EPSON PJ REMOTE

7). Bluetooth device name: EPSON PJ REMOTE

8).Bug Report:按下【D-PAD CENTER】+【BACK】键 1 秒钟以上，以获得 STB 错误报告；在 IR 模式下，发送的代码数据为 0X96。

8).Bug Report: Press 【D-PAD CENTER】+【BACK】key for more than 1 second to get STB error report; in IR mode, the code data sent is 0X96.

## 2. 遥控器其他要求

1). 配对功能要求: 不得存在扫描不到蓝牙设备或配对不上(包括短时间内连续按配对键)的问题, 请验证 50 次确保无问题;

1). Pairing function requirements: there must be no problems that the Bluetooth device cannot be scanned or paired (including continuous pressing of the pairing key within a short period of time), please verify 50 times to ensure that there is no problem;

2). 回连功能要求: 不得存在回连不上的问题, 包括盒子断电回连, 遥控器断电回连, 静置 2 小时回连等, 请验证 50 次确保无问题;

2). Reconnection function requirements: there must be no problems with the connection failure, including the box power failure and the connection, the remote control power failure and the connection, stand for 2 hours to reconnect, etc., please verify 50 times to ensure that there is no problem;

3). 抗干扰功能要求: 不得存在非常影响主机 WIFI 吞吐量的问题, 请确保连接遥控器时主机端 WIFI 吞吐量正常;

3). Anti-interference function requirements: there must be no problems that greatly affect the host's WIFI throughput, please ensure that the host's WIFI throughput is normal when connecting the remote control;

4). 性能要求: 要求支持  $\geq 10m$ , 不得存在语音通话卡顿, 丢失以及遥控器按键卡顿、丢码或连键等问题;

4). Performance requirements: It is required to support  $\geq 10m$ , and there must be no voice call jams, loss, and remote control button jams, missing codes, or continuous keys;

5). 功耗要求: 遥控器可持续使用至少 6 个月以上

5). Power consumption requirements: the remote control can be used continuously for at least 6 months

6). 语音: 16Khz voice sample with 16-bit sampling, 短按语音键(彩色键)可以开始录音, 遥控器收到语音引擎下发的停止录音指令后停止录音。语音超时 30s 保护, 强制退出录音。

6). Voice: 16Khz voice sample with 16-bit sampling, short press the voice button (color button) to start recording, and the remote control will stop recording after receiving the stop recording command from the voice engine. The voice timeout is protected for 30s, and the recording is forced to exit.

7). 盒子软件可以控制 MIC 打开及关闭。

7). The box software can control the opening and closing of the MIC.

8). 支持遥控器 MIC 和其他 MIC (如手机 apk 上的录音键) 交替、切换语音输入。

8). Support the remote control MIC and other MIC (such as the recording key on the phone apk) to alternate and switch voice input.

**FCC STATEMENT :**

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.

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

**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.

**RF warning statement:**

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

- **English:** "

**This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:**

**(1) this device may not cause interference, and**

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

- **French:**"

**Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :**

**(1) l'appareil n' doit pas produire de brouillage, et**

**(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."**

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to IC 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.

IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. The device can be used in portable exposure condition without restriction.