

TAKSTAR® 得胜



ZS-2808H

高清矩阵

High-Definition Matrix

使用手册 | User Manual

ZS-2808H 高清矩阵

■ 前言

感谢您选购得胜ZS-2808H高清矩阵,为了您能够更好地了解使用本产品,建议您在使用前仔细阅读本说明书。

若存在有疑问或者您有宝贵的建议,可通过拨打得胜官方服务热线400 6828 333或微信扫描二维码关注得胜官方公众号与我们联系。



■ 产品特性

- 无缝切换技术:支持音视频信号无缝切换,无黑屏、蓝屏、碎屏及画面停顿,无过渡动画,保障显示连续性;
- 纯硬件架构设计:采用FPGA纯硬件架构,无CPU及操作系统,上电即工作,无系统崩溃风险,操作零延迟;
- 集成分配切换拼接:集信号分配、矩阵切换及多屏拼接于一体,支持自定义模式,兼容横/竖屏应用;
- EDID管理与自适应:支持EDID可擦写及自适应,自动适配显示设备分辨率与音频格式,提升兼容性;
- 多重电路保护机制:内置ESD防护,支持热插拔;具备过压、过流、过热及过载保护,保障运行稳定;
- 场景保存与断电记忆:内置8种场景预设,支持通道及场景命名;具备断电自动存储与开机恢复功能;
- 长距离传输补偿:输入输出端口分别具备自动均衡与增益调节功能;使用HDMI 1.4线缆,传输距离可达(20M输入)/(25M输出);
- 音频加嵌与解嵌:支持模拟音频与HDMI信号互转(加嵌/解嵌),可通过Audio端口外接功放设备;
- 多元化控制接口:支持前面板按键、红外遥控、RS-232、LAN、WEB网页等多种控制方式;
- 高规格视音频处理:支持最大分辨率4Kx2K@30Hz及1080P@60Hz;支持HDCP、蓝光及3D透传;内置3D去隔行及图像修复算法。

■ 适用范围

会议厅、报告厅等智能化控制场所

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■ 产品配置

视频矩阵	1台
电源适配器.....	1个
机柜挂耳	2个
RS-232串口线	1条
IR遥控器	1个
保护接地线.....	1条
说明书.....	1份

■ 技术参数

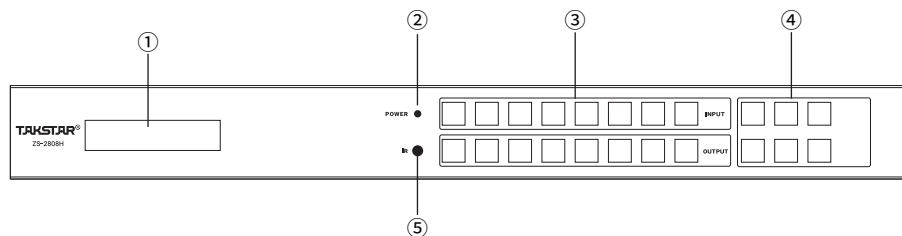
视频格式	4K×2K@30Hz、1080P@60Hz
HDMI 兼容	HDMI 1.4
HDCP 兼容	每路信号支持 HDCP 解码
输入接口	HDMI Type A × 8、3.5mm 音频 × 8
输出接口	HDMI Type A × 8、3.5mm 音频 × 8
控制接口	RS-232 IN × 1、RS-232 OUT × 1、LAN (RJ45) × 1
控制方式	支持前面板按键、红外遥控、RS-232、LAN、WEB 网页
显示模式	自定义拼接模式、复制模式、交叉显示模式
供电规格	DC12V/3A
尺寸 (MM)	430*147*45mm
净重 (KG)	2.1KG

注：以上数据由得胜实验室测试得到，并拥有最终解释权！

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■ 功能示意

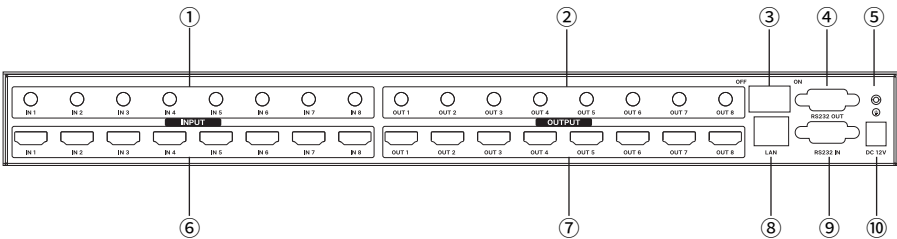
前面板



- ① 显示屏:显示设备当前操作指令。
- ② 电源指示灯:设备通电时,指示灯亮绿色。
- ③ 数字按键区:输入通道切换按键1-8, 输出通道切换按键1-8。
- ④ 功能按键区:
 - 1) ALL按键:全选按键
 - 2) EDID按键:EDID学习按键
 - 3) UP按键:向上选择按键
 - 4) Enter:确认键
 - 5) MENU:菜单键
 - 6) DOWN:向下选择按键
- ⑤ IR接收窗口:红外信号接收窗, 仅接收本设备的红外遥控信号。

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背面板



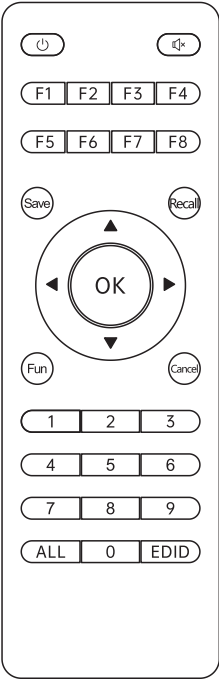
- ① AUDIO (IN1-IN8):3.5mm音频输入接口
- ② AUDIO (OUT1-OUT8):3.5mm音频输出接口
- ③ 电源开关:开机/关机按键
- ④ RS232 OUT:RS232控制接口(串接其他RS232接口的设备)
- ⑤ 地线:地线接地标识
- ⑥ HDMI(IN1-IN8):HDMI信号输入接口IN1-IN8
- ⑦ HDMI(OUT1-OUT8):HDMI信号输出接口OUT1-OUT8
- ⑧ LAN口:网络控制接口
- ⑨ RS232IN:RS232控制接口(连接电脑控制矩阵)
- ⑩ DC12V接口:电源接口

■ 使用说明

一、操作说明

- 1. 面板切换逻辑:选择对应输入数字键,再按输出数字键,最后按ENTER按键即可完成画面切换。
- 2. ALL全屏投放:选完输入数字键后按ALL,再按ENTER即可同步到所有输出屏。
- 3. EDID配置:按下EDID键,按键面板自动提示可以学习到的输入源,可以选择某一路或者全部输入读取。内部EDID有多种格式不要拔插HDMI线材,自动读取EDID。
- 4. MENU菜单键:如操作错误,按矩阵面板菜单键、设备液晶屏可返回到主界面。
- 5. WEB网页登录:在浏览器输入“192.168.1.200”进入登录界面,账号密码:admin/admin。注意电脑需要在同一网段下,192.168.1.X(X不能为200)。

二、IR遥控器操作说明



序号	名称	说明
1		开/关机按键
2		静音键(开/关蜂鸣器声音)
3	F1-F8 键	保留功能按键
4	SAVE 键	保存场景键
5	RECALL 键	调用场景键
6	上下键	在菜单功能上下翻页操作
7	左右键	保留功能按键
8	OK 键	确定操作
9	FUN 键	主菜单功能键
10	CANCEL 键	返回键
11	0-9 键	数字键区(0/9 保留按键)
12	ALL 键	切换时执行全部切换按键
13	EDID 键	EDID 学习键

遥控器操作示例：

- ① 一对二操作步骤:1→2→OK
- ② 一对所有操作步骤:1→ALL→OK
- ③ 一对一操作步骤:FUN→SWITCH 0 To 0→OK
- ④ 保存场景操作步骤:Save→上下键(1-8模式)→OK
- ⑤ 调用场景操作步骤:Recall→上下键(1-8模式)→OK
- ⑥ EDID学习操作步骤:
 - 1) 某一路EDID→ 数字键(1-8) → 上下键选择模式 →OK
 - 2) 全部EDID→ALL→上下键选择模式→OK

三、通讯格式

- 1. 通讯方式:RS-232
- 2. 波特率:115200
- 3. 数据位格式:1位起始位,8位数据位,无校验位,1位停止位
- 4. 默认IP地址:192.168.1.200

类型	控制指令	功能描述
操作指令	[x1]ALL.	将[x1]路的输入切换到所有路输出
	[xO]ALL.	将所有路输出关闭
	[xO]X[x1].	第[x1]路输出关闭
	ALL[1].	设置为所有通道—— 对应, 如: 1->1,2 ->2,3 ->.....
	[x1]X[x2].	将[x1]路输入切换到第[×2]路输出
	[x1]X[x2] &[x3]&[x4]	将[x1]路输入切换到第[x2]路输出, [x3],[x4]路输出
	Save[Y].	保存当前状态到第[Y]存储单元, [Y]为 1-16 数字键
	Recall[Y].	调用第[Y]存储单元的输入输出切换状态, [Y]为 1-16 数字键
	BeepON.	开启蜂鸣器
	BeepOFF.	关闭蜂鸣器

备注:

- 1. [x1],[x2],[x3],[x4],[x5][x6],[x7],[x8]为输入/输出路数,如超出范围,则当做命令输入错误处理,指令中的“[“和”]”不是发送字符。
- 2. 每条指令的结尾符不能漏,每条指令的最后面都有一个“.”,标点符号均为在英文输入法的标点。
- 3. 字母不分大小写、部分指令代码举例说明
 - ① 将[x1]路的输入切换到所有路输出:[x1]All.例:要把第3路输入切换到所有输出通道,输入'3All!。
 - ② 将所有路输出关闭:[x0]All.例:只需输入'OAll. ' 即可。
 - ③ 第[x1]路输出关闭:[x0]X[x1].例:需要关闭输出一,则只需输入'0x1.。如果需要同时关闭输出一和输出二则只需输入'0x1.0×2.' 即可。

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- ④ 设置为所有通道——对应:All[1].例:比如一台8*8的HDMI 矩阵,运行后,状态为::
1->1,2->2,3->3, 8->8,输入'All1.。
- ⑤ 视频切换指令:[x1]X[x2].例:要将第2路输入切换到第4路输出,则只需输入"2X4.",如果要将第2路输入切换到3,4路输出,则只需输入“2X3&4.”即可。
- ⑥ 保存当前状态指令:Save[Y].例:要将当前状态保存到第5存储单元,输入"Save5."即可。
- ⑦ 调用已存储单元指令:Recall[Y].例:要将第6存储单元的状态调用出来配置成矩阵的输入输出状态,输入"Recall6."即可。
- ⑧ 蜂鸣器的开启和关闭例:BeepON.,将蜂鸣器打开,切换时能听到蜂鸣声音;Beep OFF.,将蜂鸣器关闭,切换时不会听到蜂鸣声音。

■ 安全警示

为避免电击、高温、着火、辐射、爆炸、机械危险以及使用不当等可能造成的人身伤害或财产损失,使用本产品前,请仔细阅读并遵守以下事项:

- 1. 使用产品时请确认所连设备与本产品是否匹配以及合理调整音量大小,不要在超过产品功率及大音量下长时间使用,以免造成产品异常;
- 2. 使用中若发现有异常(如冒烟、异味等),请立即关闭电源开关并拔掉电源插头,然后将产品送售后服务网点检修;
- 3. 消费者若使用电源适配器供电,则应购买配套使用获得CCC认证并满足标准要求的电源适配器;
- 4. 本产品及附件都应放置在室内干燥通风处,请勿长期存放在潮湿、灰尘多的环境,使用中避免靠近火源、雨淋、进水、过度碰撞、抛掷、振动本机及覆盖通风孔,以免损坏其功能;
- 5. 若产品需要固定于墙壁或天花板时,请确保固定到位,防止因固定强度不足导致产品发生跌落危险;
- 6. 使用该产品时需遵守相关安全规定,法律法规明确禁止使用场合请勿使用本产品,以免导致意外事故;
- 7. 请不要自行拆机改装或维修,以防止出现人身伤害,如有问题或服务需求请联系当地售后服务网点跟进处理。

环保说明

产品中有毒有害物质或元素的名称及含量标识表

部件名称	有毒有害物质或元素									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸 二正丁酯 (DBP)	邻苯二甲酸 二异丁酯 (DIBP)	邻苯二甲酸 丁基苯酯 (BBP)	邻苯二甲酸 二(2-乙基)己酯 (DEHP)
塑料部件	○	○	○	○	○	○	○	○	○	○
金属部件	×	○	○	○	○	○	○	○	○	○
电路板组件	×	○	○	○	○	○	○	○	○	○
线缆	×	○	○	○	○	○	○	○	○	○
注1: ○ :表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。 × :表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。 注2: 以上未列出的部件,表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。										
此标志为产品的环保使用期限标志, 且此环保使用期限只适用于产品正常工作的温度和湿度等条件。										

关于图标含义解释

 此符号表示, 根据WEEE指令(2012/19/EU)和国家法律, 由于这种类型的废弃物会有潜在的有害物质, 可能对环境 and 人类健康产生负面影响, 所以本产品不应与您的家庭垃圾一起处置, 应将本产品交由授权的电气和电子设备 (WEEE) 回收站回收。同时, 您在正确处理本产品的同时将有助于自然资源的有效利用。如需了解更多有关您可以在何处放置废物回收设备的信息, 请联系您当地的城市办事处、废物管理局或家庭废物处理服务部门。

关于本说明书

本说明书中内容符合截止印刷之日的技术规格。由于得胜公司会不断改进产品, 本说明书可能不符合您的特定产品的技术规格。要获取最新版说明书, 请访问得胜官网, 然后下载说明书文件。技术规格、设备或另售的附件在各个地区可能有所不同, 如有问题请与当地得胜销售网点确认。如需更多支持和深层产品信息, 请浏览得胜官方网站: <https://www.takstar.com>

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ZS-2808H High-Definition Matrix

■ Preface

Dear Customer,

Thanks for purchasing our product. Read this manual thoroughly for proper use.

If you have any questions or suggestions, please contact our local sales service.

■ Features

- **Seamless Switching Technology:** Supports gapless audio/video signal switching with no black/blue screen, screen glitches, frame freeze or transition animations, ensuring continuous display output.
- **Pure Hardware Architecture:** FPGA-based design with no CPU or operating system; instant operation on power-up, zero system crash risk and zero-latency control.
- **Integrated Distribution, Switching & Splicing:** All-in-one signal distribution, matrix switching and multi-screen splicing; supports custom modes, compatible with landscape and portrait displays.
- **EDID Management & Auto-Adaptation:** Rewritable EDID with auto-adaptive function; automatically matches display resolution and audio format for enhanced compatibility.
- **Multiple Circuit Protection:** Built-in ESD protection with hot-swap support; over-voltage, over-current, over-temperature and overload protection for stable operation.
- **Scene Save & Power-off Memory:** 8 built-in scene presets with channel/scene naming support; auto-save on power loss and auto-restore on boot-up.
- **Long-Distance Transmission Compensation:** Auto equalization (input) and gain adjustment (output); transmission distance up to 20m (input)/25m (output) with HDMI 1.4 cables.
- **Audio Embedding & De-embedding:** Bidirectional conversion between analog audio and HDMI signals; supports external amplifiers via the Audio port.
- **Multiple Control Interfaces:** Supports front panel buttons, IR remote, RS-232, LAN and WEB-based control methods.
- **High-Spec AV Processing:** Max resolution up to 4K×2K@30Hz and 1080P@60Hz; supports HDCP, Blu-ray and 3D pass-through; built-in 3D de-interlacing and image restoration algorithms.

ZS-2808H High-Definition Matrix

■ Applications

Suitable for conference rooms, lecture halls, and other intelligent control venues.

■ Package Contents

- 1 × Video Matrix
- 1 × Power Adapter
- 2 × Rack Mount Ears
- 1 × RS-232 Serial Cable
- 1 × IR Remote
- 1 × Protective Ground Wire
- 1 × User Manual

■ Specifications

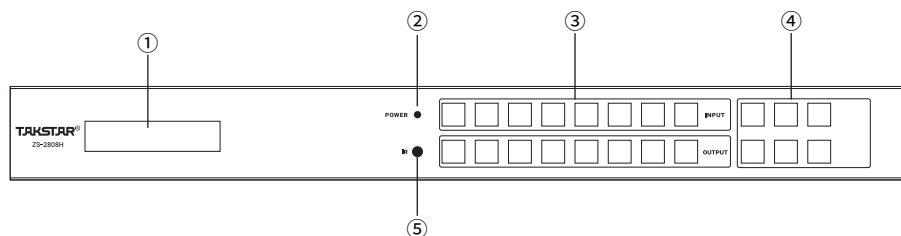
Video Format	4K×2K@30Hz, 1080P@60Hz
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP decoding per channel
Input Interfaces	HDMI Type A × 8, 3.5mm Audio × 8
Output Interfaces	HDMI Type A × 8, 3.5mm Audio × 8
Control Interfaces	RS-232 IN × 1, RS-232 OUT × 1, LAN (RJ45) × 1
Control Methods	Front panel buttons, IR remote, RS-232, LAN, WEB control
Display Modes	Custom splicing, Copy, Cross display
Power Supply	DC 12V/3A
Dimensions	430 × 147 × 45mm
Net Weight	2.1kg

Note: The above data are measured by Takstar laboratory which has the final interpretation right!

ZS-2808H High-Definition Matrix

■ Function Descriptions

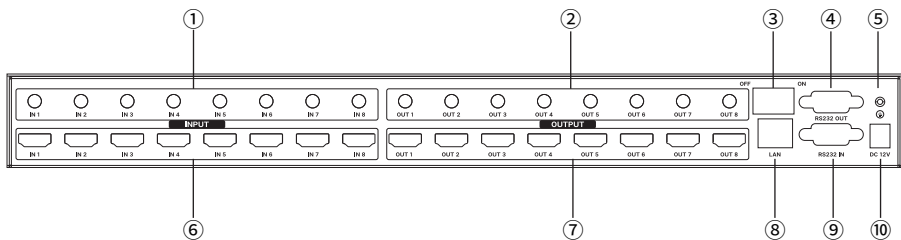
Front Panel



- ① Display Screen: Shows the device's current operation commands.
- ② Power Indicator: Lights green when the device is powered on.
- ③ Numeric Keypad: Buttons 1–8 for input channel switching; buttons 1–8 for output channel switching.
- ④ Function Buttons:
 - 1) ALL: Select all
 - 2) EDID: EDID learning
 - 3) UP: Scroll up
 - 4) Enter: Confirm
 - 5) MENU: Menu
 - 6) DOWN: Scroll down
- ⑤ IR Receiver Window: Receives IR signals from the device's dedicated remote control only.

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Rear Panel



- ① AUDIO (IN1–IN8): 3.5mm audio input ports
- ② AUDIO (OUT1–OUT8): 3.5mm audio output ports
- ③ Power Switch: Power on/off button
- ④ RS232 OUT: RS232 control port (for daisy-chaining other RS232 devices)
- ⑤ Ground Terminal: Ground connection mark
- ⑥ HDMI (IN1–IN8): HDMI signal input ports IN1–IN8
- ⑦ HDMI (OUT1–OUT8): HDMI signal output ports OUT1–OUT8
- ⑧ LAN Port: Network control port
- ⑨ RS232 IN: RS232 control port (for PC connection to control the matrix)
- ⑩ DC12V Port: Power input port

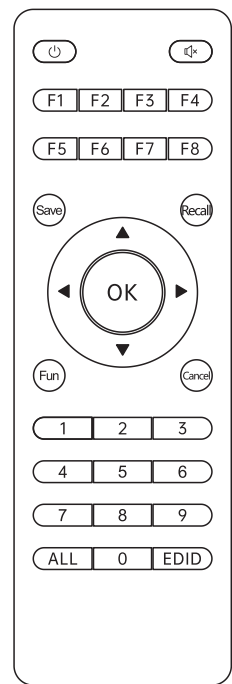
■ Operating Instructions

I. Operation Guide

1. Panel Switching: Select the input number key, then the output number key, and press ENTER to complete video source switching.
2. ALL Full-Screen Broadcast: Select the input number key, press ALL then ENTER to sync content to all output displays.
3. EDID Configuration: Press the EDID key. The panel shows available input sources for EDID learning. Select a single channel or all channels to read EDID. Do not unplug HDMI cables during automatic EDID reading; multiple EDID formats are built in.
4. MENU Key: In case of misoperation, press the MENU key on the matrix panel to return the device LCD to the main interface.
5. WEB Login: Enter 192.168.1.200 in a browser to open the login page. Username/Password: admin/admin. Ensure the PC is on the same network segment: 192.168.1.X (X cannot be 200).

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II. IR Remote Control Operation

		
No.	Name	Description
1		Power on/off button
2		Mute button (Buzzer On/Off)
3	F1-F8	Reserved function keys
4	SAVE	Saves scene key
5	RECALL	Recalls scene key
6	Up/Down	Scroll up/down through menu pages
7	Left/Right	Reserved function keys
8	OK	Confirms operation
9	FUN	Main menu key
10	CANCEL	Back/return key
11	0-9	Numeric keypad (keys 0 and 9 are reserved)
12	ALL	Switch all outputs at once
13	EDID	Activates EDID learning function

Remote Control Operation Examples:

- ① One-to-two switching: 1 → 2 → OK
- ② One-to-all switching: 1 → ALL → OK
- ③ One-to-one switching: FUN → SWITCH 0 To 0 → OK
- ④ Save scene: SAVE → UP/DOWN (Mode 1-8) → OK
- ⑤ Recall scene: RECALL → UP/DOWN (Mode 1-8) → OK
- ⑥ EDID Learning:
 - 1) EDID for one input: Number key (1-8) → UP/DOWN to select mode → OK
 - 2) EDID for all inputs: ALL → UP/DOWN to select mode → OK

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III. Communication Format

- 1. Communication interface: RS-232
- 2. Baud rate: 115200
- 3. Data format: 1 start bit, 8 data bits, no parity, 1 stop bit
- 4. Default IP address: 192.168.1.200

Type	Control Command	Function Description
Operation Commands	[x1]ALL.	Switch input channel [x1] to all output channels
	[x0]ALL.	Turn off all output channels
	[x0]X[x1].	Turn off output channel [x1]
	ALL[1].	Set one-to-one channel mapping: 1->1, 2->2, 3->...
	[x1]X[x2].	Switch input channel [x1] to output channel [x2]
	[x1]X[x2]&[x3]&[x4].	Switch input channel [x1] to output channels [x2], [x3], [x4]
	Save[Y].	Save current switching status to memory slot [Y]; [Y] = 1~16
	Recall[Y].	Recall switching status stored in memory slot [Y]; [Y] = 1~16
	BeepON.	Enable buzzer
	BeepOFF.	Disable buzzer

Notes:

- 1. [x1],[x2],[x3],[x4],[x5],[x6],[x7],[x8] represent input/output channel numbers. Commands with out of range values will be regarded as invalid commands. The symbols [and] in the command definition shall not be transmitted.
- 2. Every command must include the terminator at the end. At the end of each instruction, there is a " ". All punctuation marks must be entered under English input mode.
- 3. Commands are case insensitive. Examples of command codes are shown below:
 - ① Switch input channel [x1] to all output channels: [x1]All. Example: To switch Input Channel 3 to all output channels, send 3All.
 - ② Turn off all output channels: [x0]All. Example: Simply send 0All.

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- ③ Turn off output channel [x1]: [x0]X[x1]. Example: Send 0X1. to disable Output Channel 1. Send 0X1.0X2. to disable Output Channel 1 and Output Channel 2 simultaneously.
- ④ Set one to one mapping for all channels: All[1]. Example: For an 8×8 HDMI matrix, send All1. to activate mapping: 1->1,2->2,3->3, ... 8->8.
- ⑤ Video switching command: [x1]X[x2]. Example: Send 2X4. to route Input Channel 2 to Output Channel 4. Send 2X3&4. to route Input Channel 2 to Output Channel 3 and 4.
- ⑥ Command to save current status: Save[Y]. Example: Send Save5. to store current status to memory slot 5.
- ⑦ Command to recall saved preset: Recall[Y]. Example: Send Recall6. to load the preset from memory slot 6 as the matrix I/O configuration.
- ⑧ Buzzer control examples: BeepON. — Enable buzzer. A beep will sound upon each switching operation. BeepOFF. — Disable buzzer. No beep sound during switching.

■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.
2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.
3. Power adapter used, if any, should be approved by CCC certification or similar standards and comply with the power supply requirements.
4. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.
5. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
6. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
7. Do not disassemble or repair the product unauthorized to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

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■ Label Meanings



This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (WEEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with WEEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

■ About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: <https://www.takstar.com/>

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注意事项:

- 1. 本单为保修凭证, 请用户妥善保管, 如有遗失, 恕不保修或退换。
- 2. 保修期限制: 购买之日起十二个月内。
- 3. 除了不可抗力事件损坏外, 由本公司负责, 免费维修。
- 4. 如属保管不善或使用不当造成的损坏, 维修点将酌情收费。
- 5. 擅自拆卸维修者, 不予保修。
- 6. 以上保修条款仅限于中国市场适用 (不含港澳台地区)。

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