

4K/UHD

S8

4x1 HD Switcher

Operations Guide



Safety Instructions

Symbols used in user manuals and equipment indicate the possible harm to users or others and the risk of property damage. In order for you to use the equipment safely and correctly, the signs and their meanings are as follows. Please make sure to correctly understand these signs before reading the user manual.



The product contains some metal components, please pay attention to environmental protection.



This product is Class A, which may cause radio interference in living environment. In this case, users may need to take practical measures against interference.



Remind the user that the uninsulated dangerous voltage in the equipment may cause electric shock.



Warning: To avoid electric shock, please don't open the cover and put the useless parts in the case. Please contact qualified service personnel.



Lists the contents that may lead to unsuccessful operation or setup and some related information that needs attention.

Warning

To ensure the reliable use of the equipment and personal safety, please observe the following items during installation, use and maintenance:

Precautions during installation

- Do not use this product in the following places: places with dust, lampblack, conductive dust, corrosive gas and combustible gas; Exposed to high temperature, condensation, wind and rain; There are occasions of vibration and impact. Electric shock, fire and misoperation can also lead to product damage and deterioration;
- During screw hole processing and wiring, do not make metal scraps and wire ends fall into the vent hole of the controller, which may cause fire, failure and misoperation;
- At the end of the product installation, it is necessary to ensure that there are no foreign objects on the ventilation surface, including dust-proof paper and other packaging items, otherwise it may lead to poor heat dissipation during operation, resulting in fire, failure and misoperation;
- Avoid wiring, plugging and unplugging cable plugs in the live state, otherwise it will easily lead to electric shock or circuit damage;
- And the installation and wiring must be firm and reliable, and poor contact may lead to misoperation;
- For applications with serious interference, shielded cables should be used for input or output cables of high-frequency signals to improve the anti-interference performance of the system.

Matters needing attention when wiring

- All external power supply must be cut off before installation, wiring and other operations can be carried out, otherwise electric shock or equipment damage may be caused;
- This product is grounded through the grounding wire of the power cord. To avoid electric shock, the grounding wire must be connected to the earth. Before connecting the input or output of this product, please be sure to properly ground this product.
- After the installation and wiring, remove the foreign matter immediately. Please cover the terminal cover plate of the product before electrifying to avoid electric shock.

Matters needing attention in maintenance

- Do not touch the terminal when it is energized, otherwise it may cause electric shock and misoperation;
- Please clean and tighten the terminals after turning off the power supply, which may cause electric shock when powered on;
- Please connect or remove the communication signal cable, cable connection or removal of expansion module or control unit after turning off the power supply, otherwise it may cause equipment damage and misoperation;
- Do not disassemble the equipment to avoid damaging the internal electrical components;
- Be sure to read this manual carefully and fully confirm the safety before changing, commissioning, starting and stopping the program.

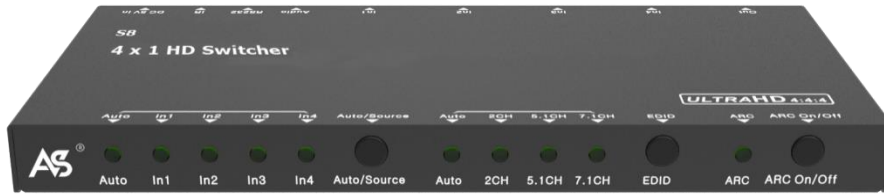
Matters needing attention when scrapping products

- Electrolytic capacitors on circuit boards may explode when burned;
- Please collect and treat them separately, and do not put them into domestic garbage.
- Please treat it as industrial waste or according to local environmental protection regulations.

Contents:

1.	Technical parameter	_____	1
2.	Physical Description	_____	2
	2.1 Panel introduction	_____	2
	2.2 Infrared remote controller	_____	3
3.	Functional performance	_____	4
4.	Schematic diagram	_____	4

1. Technical parameter



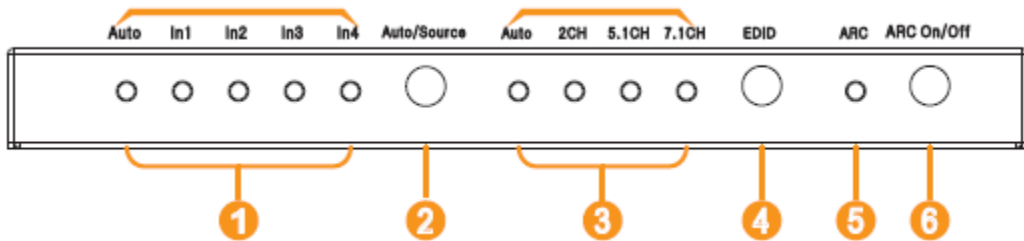
Specifications for the S8 are listed in the following table.

Specifications	
Video bandwidth	18Gbps
Input	4xHDMI(female), 1x IR(receiving), 1x RS232(receiving)
Output	1xHDMI(female), 1x L/R, 1x Optical fiber mouth
Audio format	PCM2.1/5.1/7.1CH, Dolby 5.1, DTS 5.1,Dolby-TrueHD, DTS-HD
Electrostatic protection	Mannequin: $\pm 8\text{kV}$ (air discharge), $\pm 4\text{kV}$ (contact discharge)
Size	180mm(L) \times 85mm(W) \times 11.6mm(H)
Weight	300g
Power consumption	2.5W
Shell	Metal shell
Color	Black
Operating temperature	0° C \sim 40° C / 32° F \sim 104° F
Storage temperature	-20° C \sim 60° C / -4° F \sim 140° F
Relative humidity	20~90% RH (No condensation)

2. Physical Description

2.1 Panel introduction

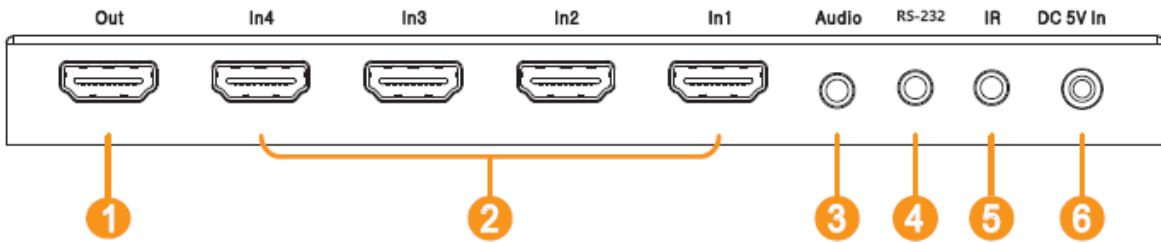
◆ Front View



Connectors, Controls & Indicators

No.	Name	Functional description
1	Auto/In1/In2/In3/In4 Indicator light	When the Automatic switching mode is turned on, the Auto indicator lights up; When the HDMI signal is input to the input port of the HDMI 1/2/3/4, the corresponding In1/In2/In3/In4 indicator lights up.
2	Or automatic manual mode switch button.	Press this key for more than 2 seconds to turn on the Automatic switching mode, and the auto indicator light in front will light up; Press this key briefly to start the manual switching mode. In the manual switching mode, select the input channel by pressing the key.
3	EDID status indicator lamp	The LED indicates that the corresponding EDID mode is used, and the automatic mode (Audio) indicates that EDID of TV is used.
4	EDID select key	Press this key to select the EDID mode
5	ARC status indicator lamp	The LED indicates that the ARC function is turned on
6	ARC On/Off	Press this key to turn on/off the ARC function

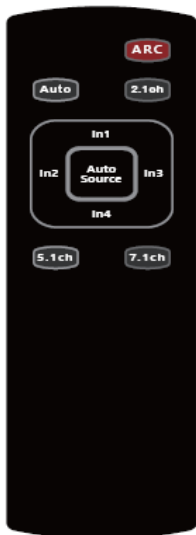
◆ Rear View



Connectors, Controls & Indicators

No.	Name	Functional description
1	Out interface	HDMI signal output port. Use HDMI cable to connect output devices, such as HDTV or projector.
2	In1/In2/In3/In4 interface	HDMI signal input port, use HDMI cable to connect input devices, such as DVD and PS4.
3	Audio interface	Audio output port, including L/R analog audio output and optical fiber audio output.
4	RS-232 interface	RS-232 instruction output port
5	IR interface	IR signal receiving port
6	DC 5V In	5V DC power supply interface

2.2 Infrared remote controller

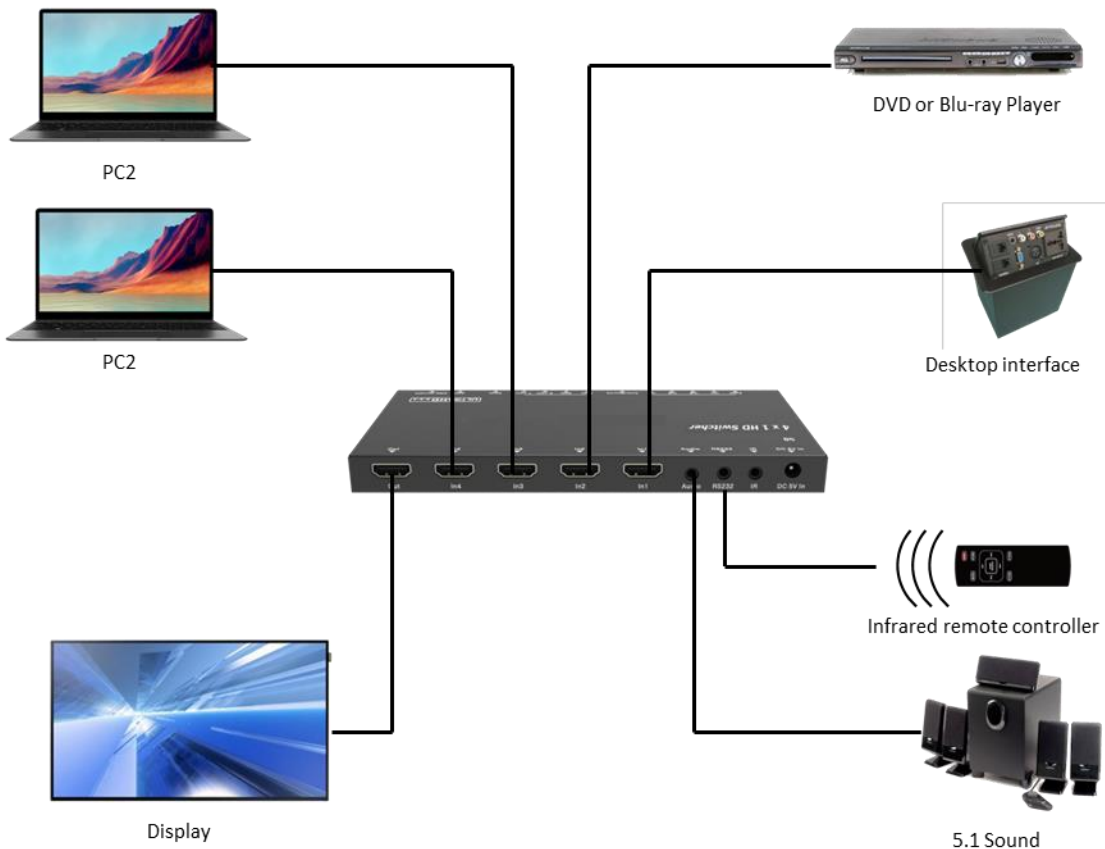


	Press this key to use or not use the ARC function. If the ARC function has been used, the LED light of the front panel ARC will be displayed.
	Press these keys to select different EDID settings, and the corresponding LED on the front panel will be displayed.
	Press this key to select automatic conversion mode or manual conversion mode.
	In the manual conversion mode, press these keys to select the input port.

3. Functional performance

- HDMI 2.0b is supported and compatible with HDCP 2.2, HDCP 1.4 protection protocol and DVI 1.0.
- The resolution of supported video formats reaches 4K×2K@60Hz and all HDMI 3D audio formats.
- Support PCM, Dolby True HD, dts-HD Master Audio up to 7.1CH
- Support digital and analog audio output
- Supported EDID include automatic selection, 2CH, 5.1CH, 7.1CH
- Support ARC (Audio Return Channel) function
- Support automatic conversion mode and manual conversion mode of input port.

4. Schematic diagram



安全指示

用户手册和设备上所使用的符号，指出可能对用户或他人造成的伤害以及财产受损的风险，为了您能够安全、正确使用设备，标识及其含义如下，请确保在阅读用户手册之前正确理解这些标识。



产品中含有一些金属元器件，请注意环保。



此为A级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对干扰采取切实可行的措施。



提醒使用者设备内出现的未绝缘的危险电压可能会导致人遭受电击



警告：为了避免电击，请不要打开机盖，也不要将无用的部分放在机箱内。请与有资格的服务人员联系。

一般信息指示



列示了可能导致操作或设置不成功的内容及一些需要注意的相关信息。

警告

为确保设备可靠使用及人员人身安全，请在安装、使用和维护时，请遵守以下事项：

安装时的注意事项：

- 请勿在下列场所使用本产品：有灰尘、油烟、导电性尘埃、腐蚀性气体、可燃性气体的场所；
- 暴露于高温、结露、风雨的场合；有振动、冲击的场合。电击、火灾、误操作也会导致产品损坏和恶化；
- 在进行螺丝孔加工和接线时，不要使金属屑和电线头掉入控制器的通风孔内，这有可能引起火灾、故障、误操作；
- 产品在安装工作结束，需要保证通风面上没有异物，包括防尘纸等包装物品，否则可能导致运行时散热不畅，引起火灾、故障、误操作；
- 避免带电状态进行接线、插拔电缆插头，否则容易导致电击，或导致电路损坏；
- 安装和接线必须牢固可靠，接触不良可能导致误操作；
- 对于在干扰严重的应用场合，高频信号的输入或输出电缆应选用屏蔽电缆，以提高系统的抗干扰性能。

布线时的注意事项：

- 必须将外部电源全部切断后，才能进行安装、接线等操作，否则可能引起触电或设备损坏；
- 本产品通过电源线的接地导线接地，为避免电击，必须将接地导线与大地相连，在对本产品的输入端或输出端进行连接之前，请务必将本产品正确接地；
- 在安装布线完毕，立即清除异物，通电前请盖好产品的端子盖板，避免引起触电。

保养时的注意事项：

- 请勿在通电时触摸端子，否则可能引起电击、误操作；
- 请在关闭电源后进行清扫和端子的旋紧工作，通电时这些操作可能引起触电；
- 请在关闭电源后进行通讯信号电缆的连接或拆除、扩展模块或控制单元的电缆连接或拆除等操作，否则可能引起设备损坏、误操作；
- 请勿拆卸设备，避免损坏内部电气元件；
- 务必熟读本手册，充分确认安全后，再进行程序的变更、试运行、启动和停止操作。

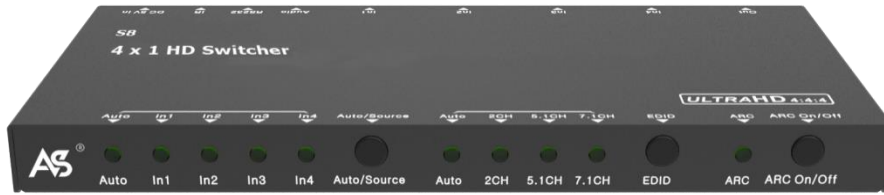
产品报废时的注意事项：

- 电路板上的电解电容器焚烧时可能发生爆炸；
- 请分类收集和处理，不能投入生活垃圾中；
- 请按工业废弃物进行处理，或者按当地的环境保护规定处理。

目录:

1. 技术参数	1
2. 物理描述	2
2.1 面板介绍	2
2.2 红外遥控器	3
3. 功能特性	4
4. 系统连接图	4

1. 技术参数



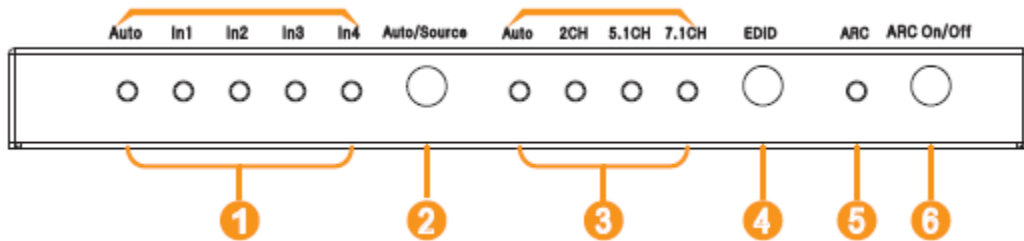
下表列出了S8的规格:

参数规格	
视频带宽	18Gbps
输入端口	4xHDMI(母), 1x IR(接收口), 1x RS232(接收口)
输出端口	1xHDMI(母), 1x L/R接口, 1x 光纤口
音频格式	PCM2.1/5.1/7.1CH, Dolby 5.1, DTS 5.1, Dolby-True HD, DTS-HD
静电保护	人体模型: ±8kV (空气放电), ±4kV (接触放电)
尺寸	180mm(长)×85mm(宽)×11.6mm(高)
重量	300克
电源功耗	2.5W
外壳	金属外壳
颜色	黑色
操作温度	0° C~40° C/32° F~104° F
存储温度	-20° C~60° C/-4° F~140° F
相关湿度	20~90% RH (无凝结)

2. 物理描述

2.1 面板介绍

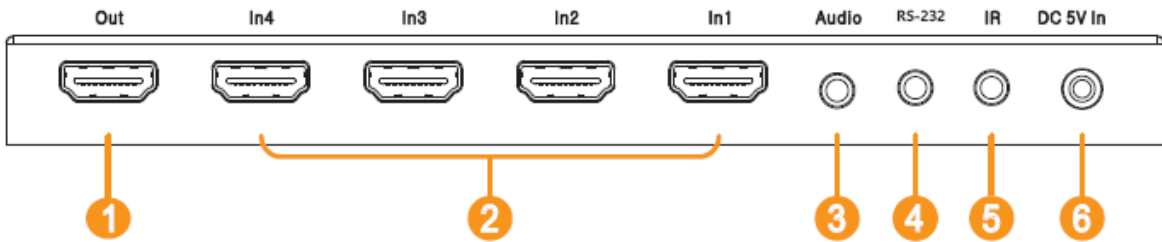
◆ 前面板端口



连接器、控制器和指示器

标号	名称	功能描述
1	Auto/In1/In2/In3/In4 指示灯	自动切换模式开启时，Auto指示灯点亮；HDMI In 1/2/3/4输入口有HDMI信号输入时，相应的In1/In2/In3/In4指示灯将点亮。
2	自动或手动模式切换按键	长按此键2秒以上，开启自动切换模式，此时前面的Auto指示灯点亮；短按此键，开启手动切换模式。在手动切换模式下，通过按下按键来选择输入通道。
3	EDID 状态指示灯	LED灯亮表示相应的EDID模式被使用，自动模式（Audio）表示使用TV的EDID。
4	EDID 选择按键	按此键选择EDID模式。
5	ARC 状态指示灯	LED灯亮表示开启ARC功能。
6	ARC On/Off	按此键开启/关闭ARC功能。

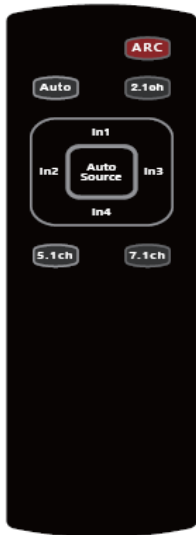
◆ 后面板端口



连接器、控制器和指示器

标号	名称	功能描述
1	Out 接口	HDMI信号输出口。使用HDMI线连接输出设备，如HDTV或者投影仪。
2	In1/In2/In3/In4 接口	HDMI信号输入口。使用HDMI线连接输入设备，如DVD，PS4。
3	Audio 接口	音频输出口，包括L/R模拟音频输出和光纤音频输出。
4	RS-232 接口	RS-232 指令输出口。
5	IR 接口	IR 信号接收口。
6	DC 5V In	5V DC 电源供电接口。

2.2 红外遥控器

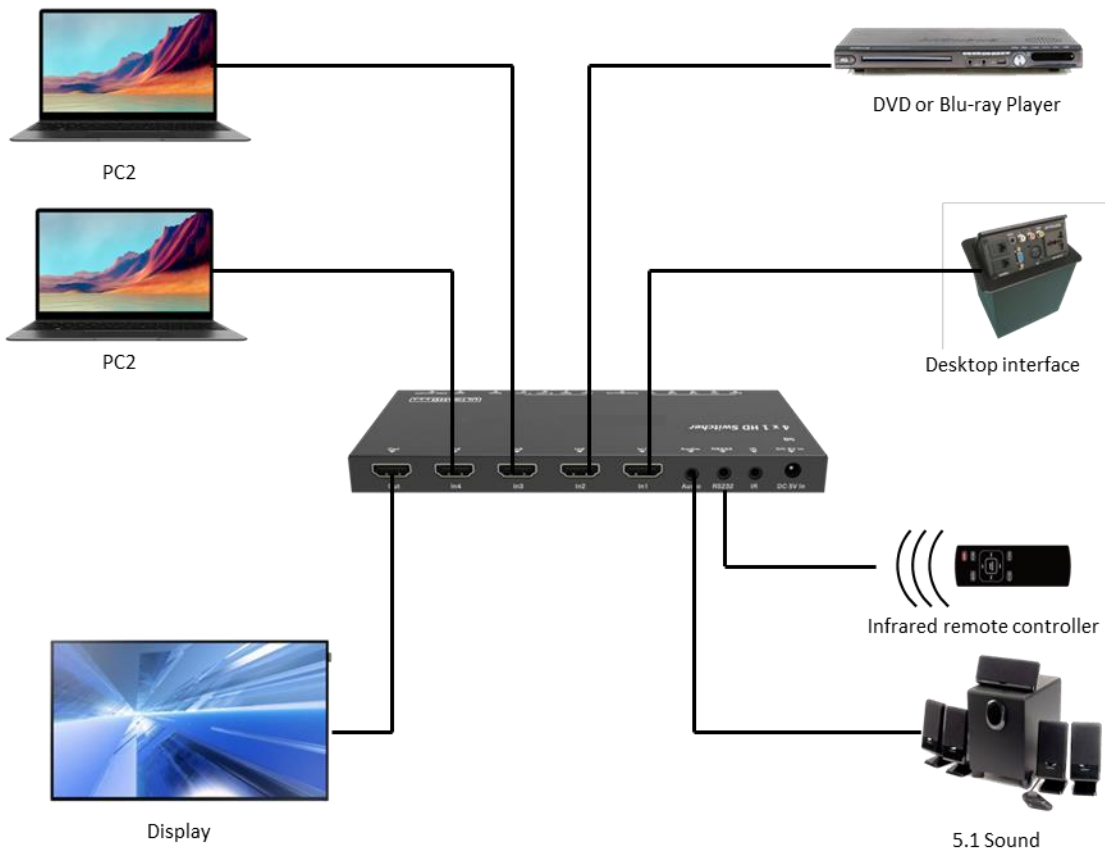


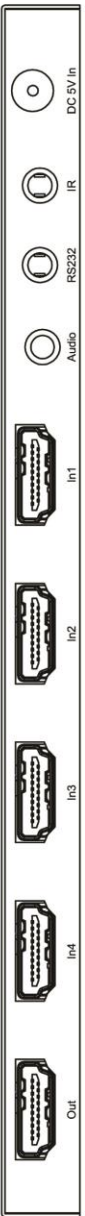
	按这个键可以使用或不使用ARC功能，如果ARC功能已使用则前面板ARC的LED灯将会显示。
	按这些键选择不同的EDID设置，前面板相应的LED将会显示。
	按这个键选择自动转换模式或手动转换模式。
	在手动转换模式下，按这些键选择输入口。

3. 功能特性

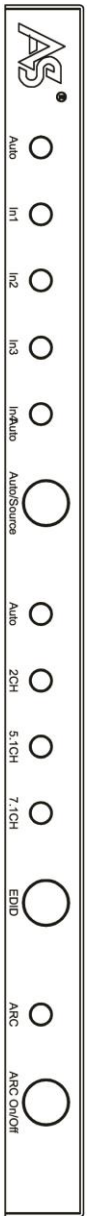
- 支持HDMI 2.0b,兼容HDCP 2.2、HDCP 1.4保护协议和DVI 1.0
- 支持视频格式的分辨率达到4K×2K@60Hz和所有的HDMI 3D音频格式
- 支持PCM, Dolby True HD, dts-HD Master Audio达到7.1CH
- 支持数字和模拟音频输出
- 支持的EDID包括自动选择、2CH、5.1CH和7.1CH
- 支持ARC (Audio Return Channel) 功能
- 支持输入口的自动转换模式和手动转换模式

4. 系统连接图





S8 4 x 1 HD Switcher





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Operations Guide – DOC. S8

Specifications subject to
change without notice.