



ADDERView® CCS-MV4224

User Guide





ADDERView® CCS-MV4224

用户指南



连接解决
方案专家



KVM交换
解决方案

Contents



Introduction

Welcome	2
Technical specifications	3
Supplied items	4
Optional extras.....	5

Installation

Connections	6
Computer connections.....	7
Console connections.....	8
Remote control connection	9
Power connection	9

Configuration

Initial display setup	10
General configuration	10
Using with multi head computers.....	10
Using the OSD	11
Channel names.....	11
Changing channel indicator colors	11
Video Settings	12
Channel Settings	13
USB Settings	14
Audio Settings	15
Advanced Operations	16
System Information.....	17
Copy & Paste.....	18
Installing the Copy & Paste driver	18
Enabling the COM Device mode.....	18
Enabling the USB Device mode.....	19
CCS-MV upgrade process.....	20

Operation

Displaying windows.....	21
Switching between channels	22
Managing windows	22
Entering and exiting system mode	22
Taking control of a window	22
Custom Preset Layouts.....	23
Resizing and moving windows	23
Using Copy & Paste	24
Using the COM Device mode.....	24
Using the USB Device Mode	24

Further information

Getting assistance	25
Appendix A - Hotkey commands	26
Appendix B – Open Source Licenses	27

Index

INSTALLATION

CONFIGURATION

OPERATION

FURTHER
INFORMATION

INDEX

介

欢迎.....	2
技术规范.....	3
已提供的项目.....	4
可选附加组件.....	5

安装

连接.....	6
计算机连接.....	7
控制台连接.....	8
远程控制连接.....	9
电源连接.....	9

配置

初始显示设置.....	10
一般配置.....	10
与多头计算机一起使用.....	10
使用OSD.....	11
通道名称.....	11
更改通道指示器颜色.....	11
视频设置.....	12
频道设置.....	13
USB设置.....	14
音频设置.....	15
高级操作.....	16
系统信息.....	17
复制并粘贴.....	18
安装复制和粘贴驱动程序.....	18
启用COM设备模式.....	18
启用USB设备模式.....	19
CCS-MV升级过程.....	20

操作

显示窗口.....	21
在频道间切换.....	22
管理窗口.....	22
进入和退出系统模式.....	22
控制窗口.....	22
自定义预置版式.....	23
调整窗口大小和移动窗口.....	23
使用复制和粘贴.....	24
使用COM设备模式.....	24
使用USB设备模式.....	24

进一步资料

获得援助.....	25
附录A-热键命令.....	26
附录B-开源许可证.....	27

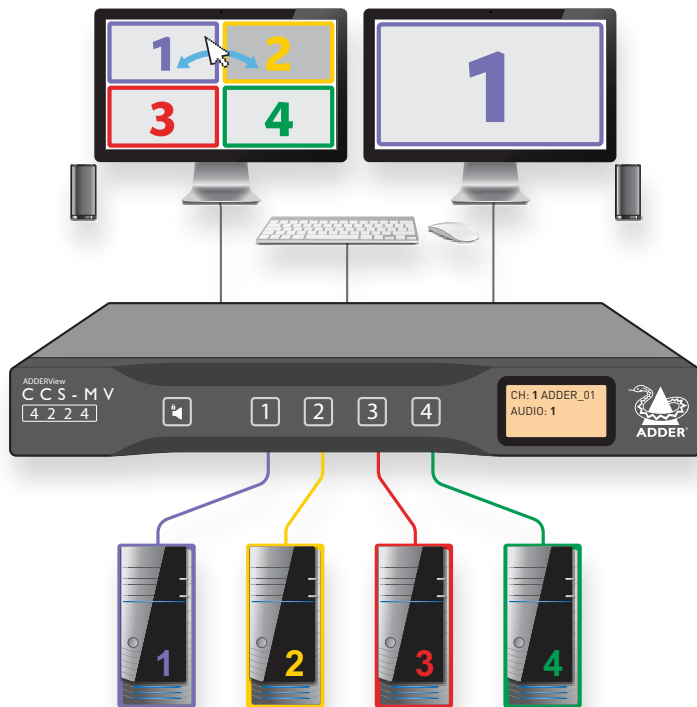
索引

Introduction



WELCOME

Thank you for choosing the ADDERView™ CCS-MV4224 multi-viewer switch for working simultaneously with up to four computers. You can choose to view the output of any computer on either connected video display or view all four outputs on one display. Focus automatically changes between computers as the mouse pointer is moved into each related window.



Switching between computers can also be controlled from the smart front panel or by using keyboard shortcuts or remote control API.

Features

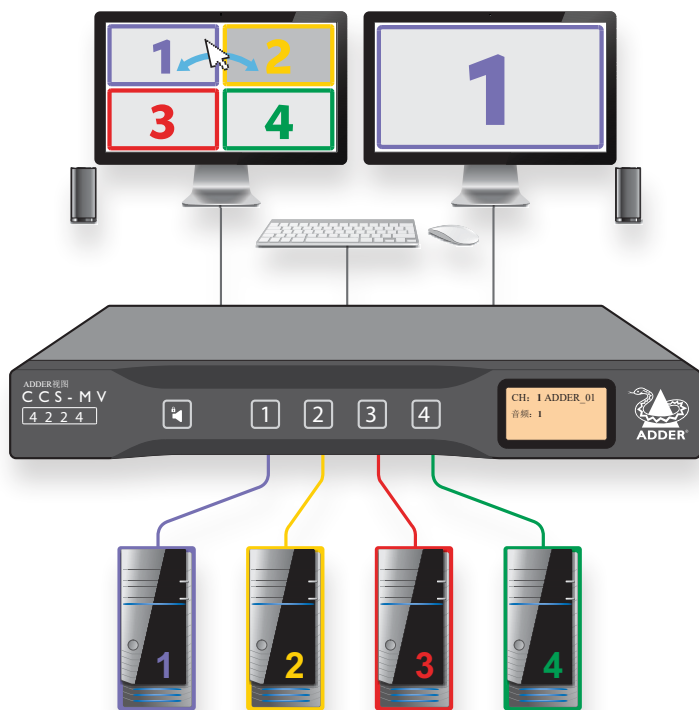
- Automatic switching between ports without the need to press any buttons. Simply move the mouse between windows.
- Up to UHD 4K video output resolution is generated so the HD input signal quality is preserved - even in tile window layout.
- Dual video outputs where the second output either duplicates the first or extends the desktop.
- Connects to either single, dual or quad head computers.
- Direct mode for latency-sensitive video sources - When enabled for a channel, and that channel is put into full screen mode, the CCS-MV4224 will bypass all image processing and feed the video directly to the monitor to allow for increased image quality and reduced latency (see “Direct Mode” on page 13).
- Analog audio with Hold feature.
- Digital audio with mixer function that combines output from multiple channel inputs.
- SuperSpeed USB 3.0 ports for isochronous and mass media devices.
- Clear channel identification to reduce the chances of operator error by displaying a user defined name for each channel on the status display. The color of the channel indicators may also be configured.

Safety

Please refer to the safety booklet provided in the box before use of this product.

欢迎

感谢您选择可同时与多达四台计算机协同工作的ADDERView™CCS-MV4224多视图切换器。您可以选择在连接的视频显示器上查看任意计算机的输出，或者在一个显示器上查看所有四个输出。当鼠标指针移动到每个相关窗口中时，焦点会自动在计算机之间切换。



在计算机之间切换也可以通过智能前面板或使用键盘快捷键或远程控制API来控制。

功能

- 无需按任何按钮即可在端口之间自动切换。只需将鼠标在窗口之间移动即可。
- 生成高达UHD 4K视频输出分辨率，因此即使在瓦片窗口布局中也保留了HD输入信号质量。
- 双视频输出，其中第二个输出复制第一个或扩展桌面。
- 可连接到单头、双头或四头计算机。
- 针对延迟敏感视频源的直接模式-启用通道的直接模式后，如果该通道进入全屏模式，CCS-MV4224将绕过所有图像处理并将视频直接馈送至监视器，从而提高图像质量和降低延迟（参见第13页“直接模式”）。
- 模拟音频，具有保持功能。
- 数字音频，具有混合器功能，可将多个通道输入的输出合并。
- SuperSpeed USB 3.0端口用于等时和大容量媒体设备。
- 清晰的信道标识，通过在状态显示器上显示每个信道的用户定义名称来降低操作员错误的可能性。信道指示器的颜色也可以配置。

安全

使用本产品前请参考包装盒内提供的安全手册。

TECHNICAL SPECIFICATIONS

Approvals / Compliance

CE, UKCA, FCC class A, TUV US & Canada

Video resolutions

Inputs: Up to 3840 x 2160 @ 30 Hz.

Outputs: Up to 2560 x 1600 @ 60 Hz or 3840 x 2160 @ 30 Hz.

Software compatibility

Windows, Linux, Mac host computer OS's USB HID, including touchscreens compliant with Microsoft® Digitizer.

Computer connections

4x Dual ports for DisplayPort™ or HDMI®

4x USB 2.0 Full Speed type B

4x USB 3.0 SuperSpeed type B

4x Audio (3.5mm)

Console connections

2x Digital port for HDMI

2x USB 2.0 Full Speed type A

4x USB 3.0 SuperSpeed type A

Audio (3.5mm)

RJ12 serial port

Front panel

Audio hold button and status LED

4x Channel selection button and status LED

E-paper for status display (212 x 104)

Physical design

Robust metal construction

13.54"/344mm(w), 1.73"/44mm(h), 6.34"/161mm(d) 1.6kg/3.53lbs

Power supply

100 - 240V AC, 47/63Hz

12VDC 30W output from power supply unit

Environmental

Operating temp: 32°F to 104°F (0°C to 40°C)

Storage temp: -4°F to 140°F (-20°C to 60°C)

Humidity: 0-80% RH, non-condensing

MTBF: 84K hours at 40°C using Telcordia SR-332 Issue 3

技术规格

批准 / 合规

CE、UKCA、面心立方A类、TUV美国和加拿大

视频分辨率

输入：最高3840 x 2160 @ 30 Hz。

输出：最高可达2560 x 1600 @ 60 Hz或3840 x 2160 @ 30 Hz。

软件兼容性

Windows、Linux、Mac主机计算机操作系统的USB HID，包括符合Microsoft® Digitizer的触摸屏。

计算机连接

4x双端口，用于DisplayPort™或HDMI®

4x USB 2.0全速type B

4x USB 3.0 SuperSpeed B型

4倍音频（3.5mm）

控制台连接

2个用于HDMI的数字端口

2个USB 2.0全速type A接口

4x USB 3.0 SuperSpeed型A

音频（3.5mm）

RJ12串口

前面板

音频保持按钮和状态指示灯

4X信道选择按钮和状态LED

状态显示用电子纸（212 x 104）

实体设计

坚固的金属结构

13.54 "/344mm（宽）、1.73" /44mm（高）、6.34 "/161mm

（深）1.6kg/3.53lbs

电源
100 - 240V AC, 47/63Hz

电源单元的输出为12VDC 30W

环境的

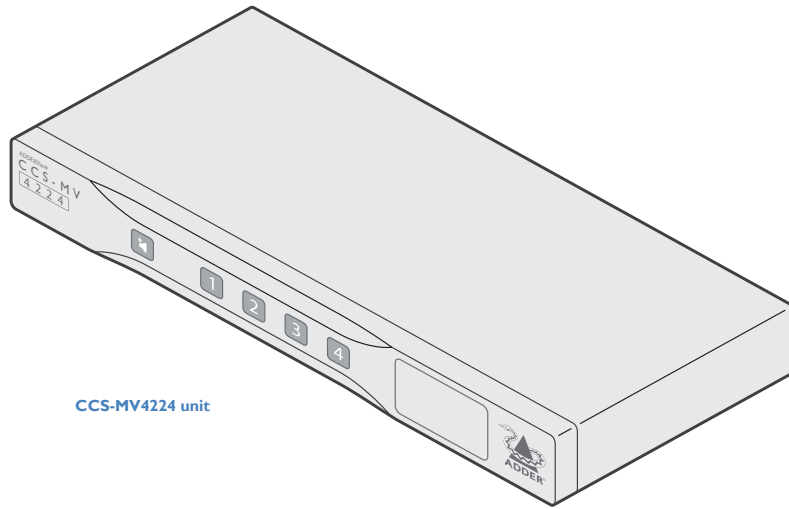
工作温度：32°F至104°F（0°C至40°C）

储存温度：-4°F至140°F（-20°C至60°C）

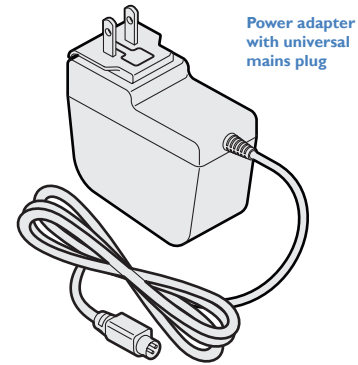
湿度：0-80% RH，无冷凝

MTBF：使用Telcordia SR-332第3版时的40°C小时数为84K

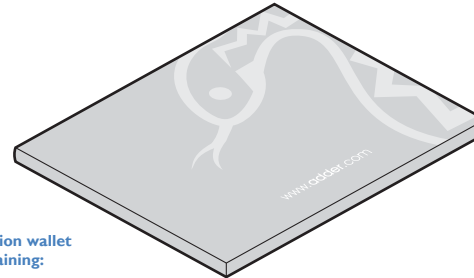
SUPPLIED ITEMS



CCS-MV4224 unit



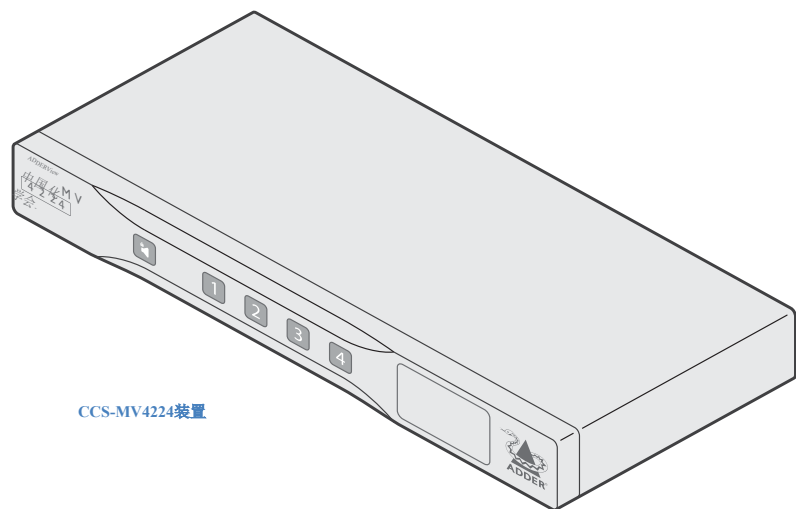
Power adapter
with universal
mains plug



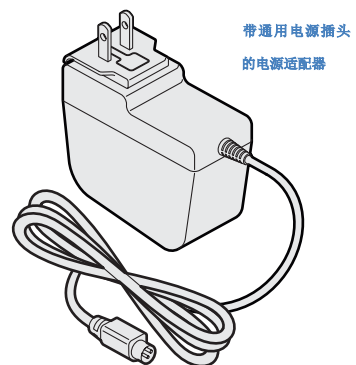
Information wallet
containing:

Four self-adhesive rubber feet
Quick start guide
Safety document

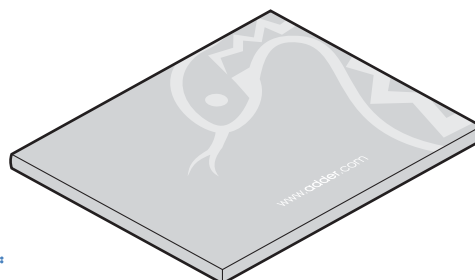
已提供的物品



CCS-MV4224装置



带通用电源插头
的电源适配器

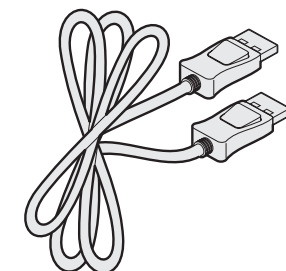
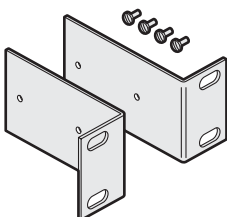


信息钱包包含:

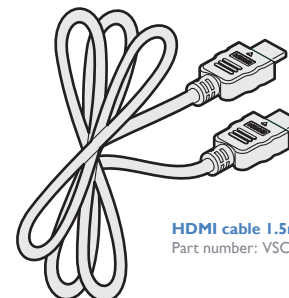
四个自粘橡胶脚
快速入门指南安
全文件

OPTIONAL EXTRAS

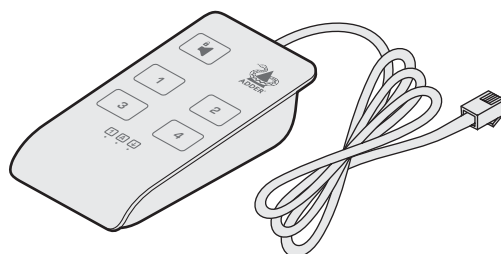
19" rack-mount kit
Part number: RMK13



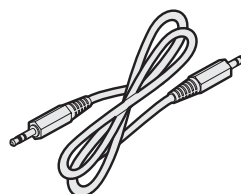
DisplayPort to DisplayPort video cable
Part number: VSCD18



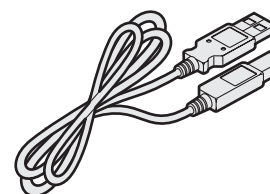
HDMI cable 1.5m
Part number: VSCD15



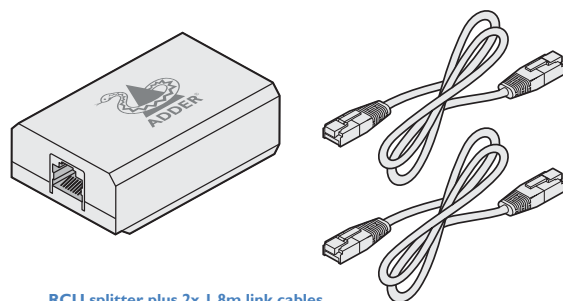
Remote control unit (RCU)
Part number: AS-4RCU



**Audio cable 2m
(3.5mm stereo jacks)**
Part number: VSC22

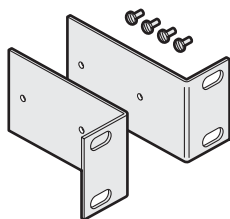


USB cable 2m (type A to B)
Part number: VSC24

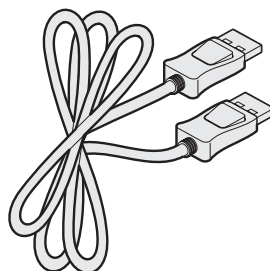


RCU splitter plus 2x 1.8m link cables
Part number: AS-RCUSPLR

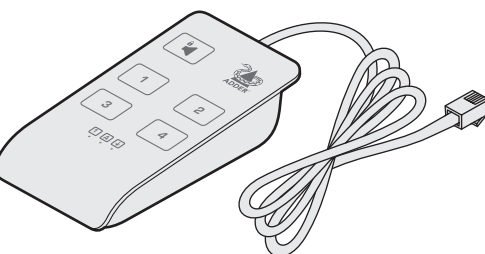
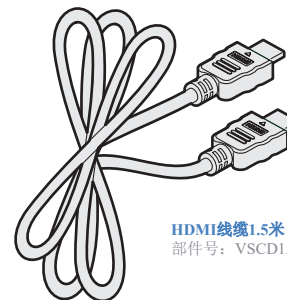
19"机架安装套件
部件号: RMK13



DisplayPort至DisplayPort视频线缆
部件号: VSCD18



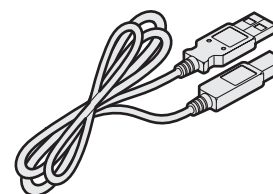
HDMI线缆1.5米
部件号: VSCD15



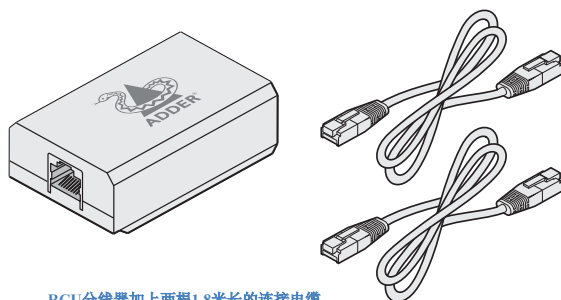
远程控制单元 (RCU)
部件号: AS-4RCU



音频线缆2m
(3.5mm立体声插孔)
部件号: VSC22



USB线缆2米 (A型到B型)
部件号: VSC24

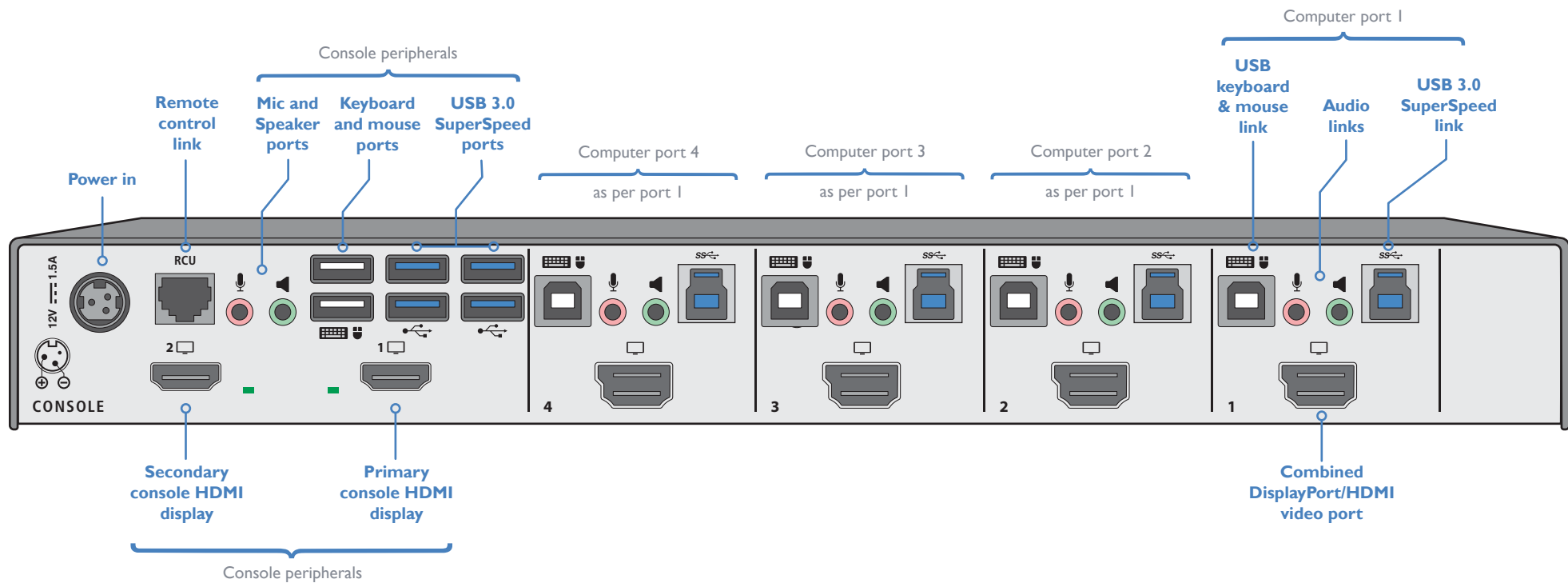


RCU分线器加上两根1.8米长的连接电缆
部件号: AS-RCUSPLR

Installation

CONNECTIONS

All connections are made at the rear panel.
Use only approved shielded cables, particularly
for the video connections. Ensure that all
connections are made before applying power.

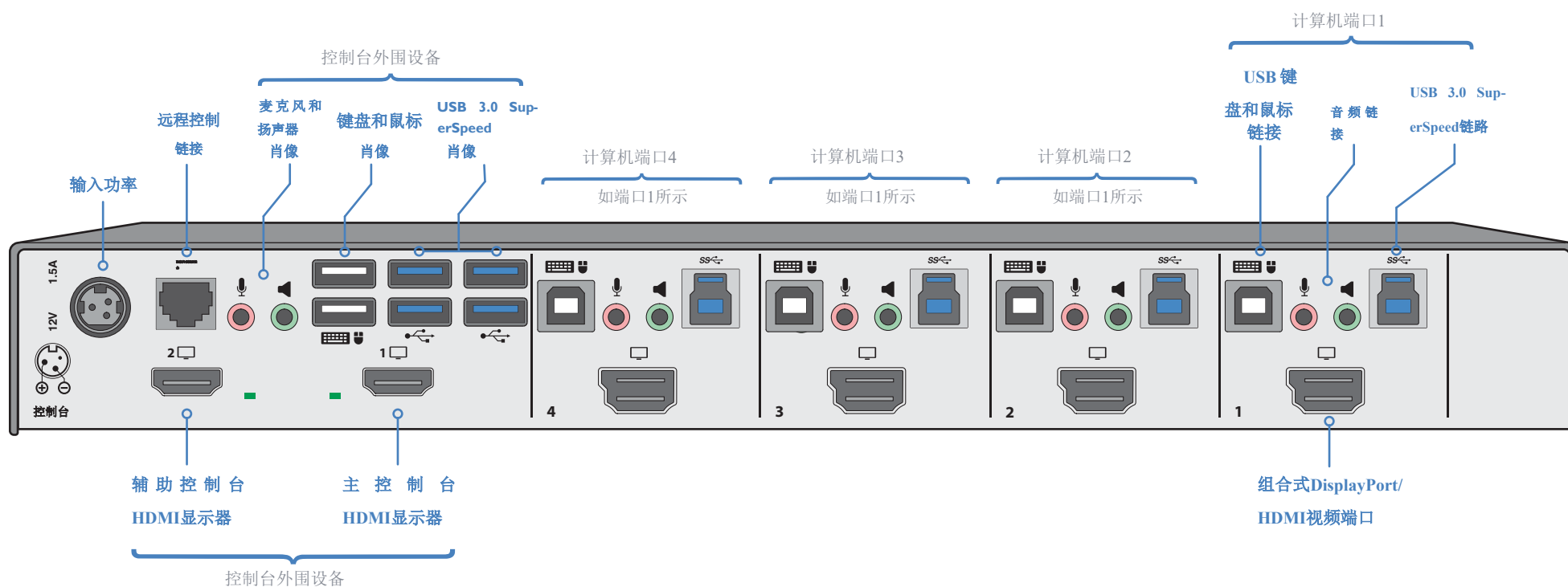


连接

所有连接均在后面板上完成。

使用经过屏蔽的专用电缆，特别是视频连

接。确保在通电前完成所有连接。

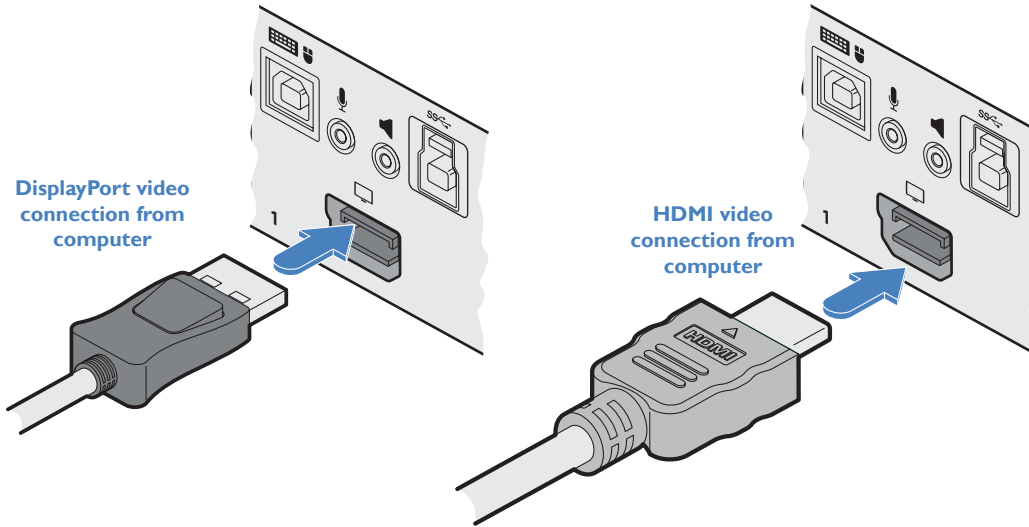


Computer connections

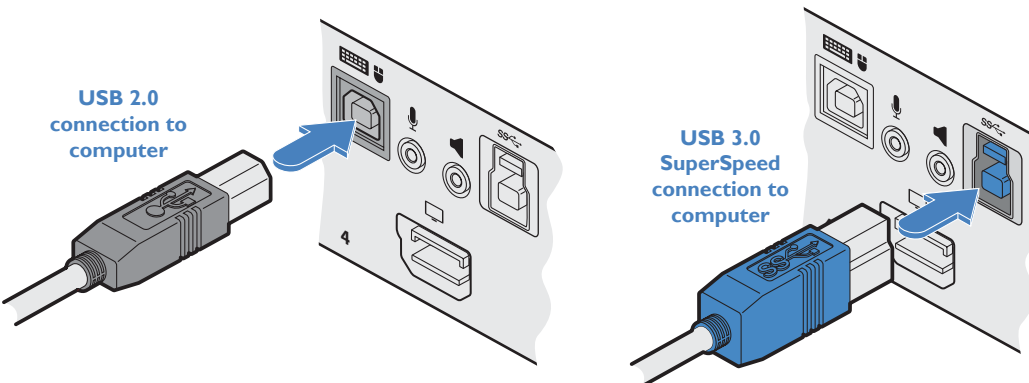
The multi-viewer switch has four computer ports, each of which consists of: dual DisplayPort/HDMI video links, two USB links and two audio connections. The unit supports video input resolutions up to 3840 x 2160 @ 30Hz.

To make connections (to each computer port)

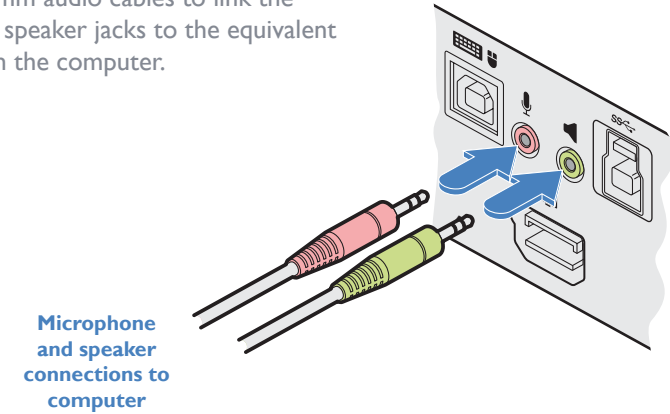
- 1 Attach either a DisplayPort or HDMI cable between the combined video input port and the primary video output connector on the computer.



- 2 Each computer port has two USB sockets a Full Speed (v2.0) one which serves the console keyboard and mouse and also a SuperSpeed (v3.0) blue socket which feeds to the four blue SuperSpeed type A console sockets - useful when using high speed and/or isochronous devices. Insert suitable link cables between these ports USB and vacant USB ports of the same type on the computer.



- 3 Use 3.5mm audio cables to link the mic and speaker jacks to the equivalent ports on the computer.

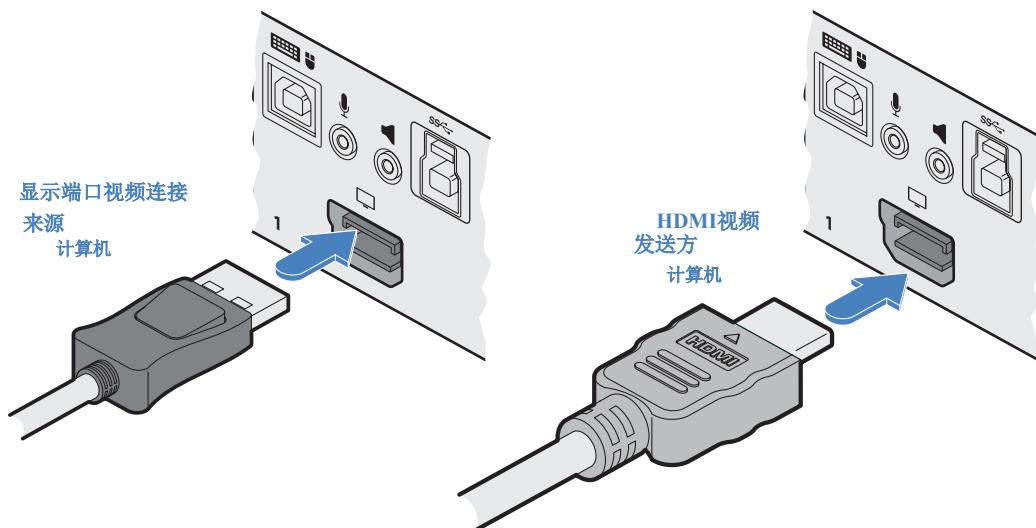


计算机连接

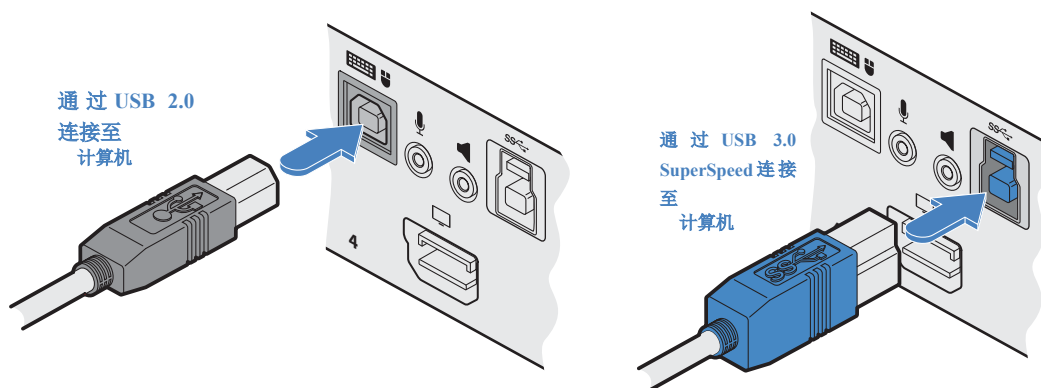
多视图切换器具有四个计算机端口，每个端口均包含：双DisplayPort/HDMI视频链路、两个USB链路和两个音频连接。该设备支持最高3840 x 2160 @ 30Hz的视频输入分辨率。

建立连接（到每个计算机端口）

- 1 在组合视频输入端口和计算机上的主视频输出连接器之间连接DisplayPort或HDMI线缆。

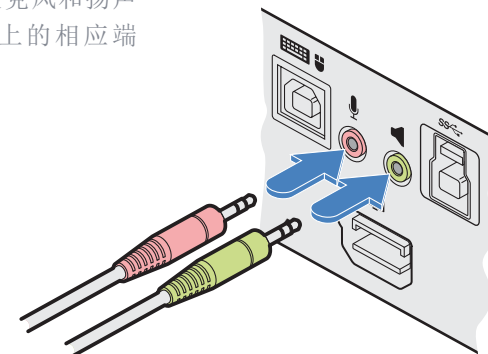


- 2 每个电脑端口都配备两个USB接口：一个是全速（v2.0）接口，负责连接游戏键盘和鼠标；另一个是超高速（v3.0）蓝色接口，可连接四个蓝色超高速Type-A接口——特别适合连接高速或等时设备。使用时，请在电脑的空闲USB接口与这些端口之间插入适配的连接线。



- 3 使用3.5mm音频线将麦克风和扬声器插孔连接到计算机上的相应端口。

麦克风和
演讲者与...的连接
计算机



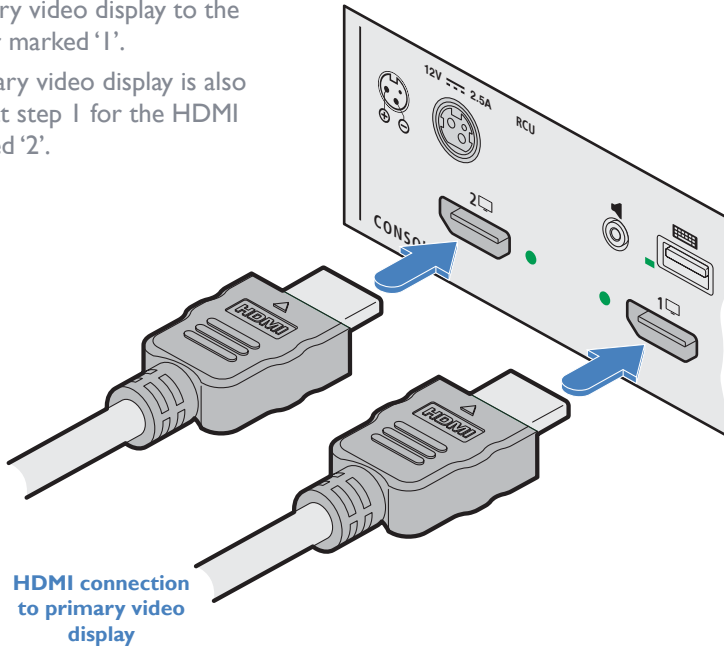
Console connections

The video display(s), keyboard, mouse and speakers are attached to the various connectors on the rear panel that constitute the console port. The unit supports video display resolutions up to 3840 x 2160.

To make console connections

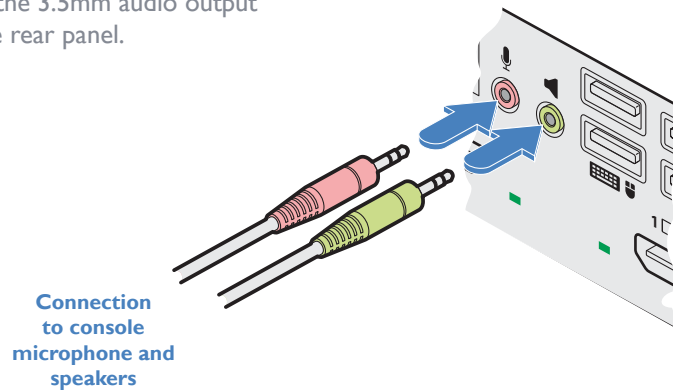
- 1 Attach the primary video display to the HDMI connector marked '1'.
- 2 Where a secondary video display is also to be used, repeat step 1 for the HDMI connector marked '2'.

HDMI connection to secondary video display



HDMI connection to primary video display

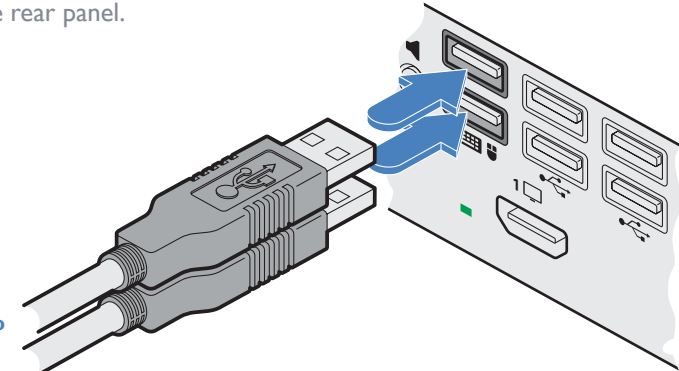
- 3 Connect the console microphone and speakers into the 3.5mm audio output sockets on the rear panel.



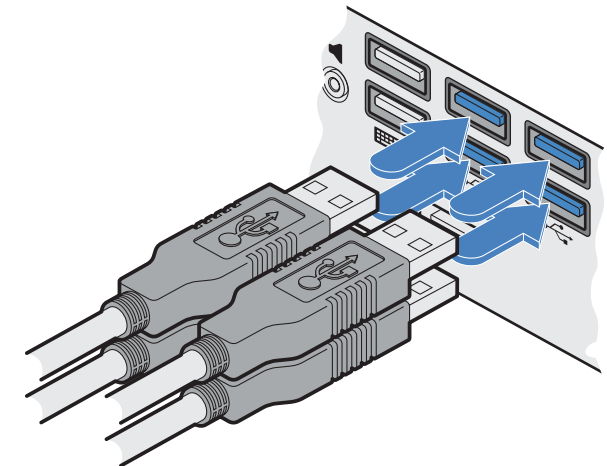
Connection to console microphone and speakers

- 4 There are six USB ports within the Console section: Two Full Speed (v2.0) type A sockets for the keyboard and mouse as well as four SuperSpeed (v3.0) type A blue sockets - useful when using high speed and/or isochronous devices. Connect the required devices to the USB sockets on the rear panel.

USB connections to console keyboard and mouse



USB connections to other devices (including SuperSpeed 3.0 and/or isochronous devices)



控制台连接

视频显示器(s)、键盘、鼠标和扬声器连接到各个构成控制台端口的后面板上的连接器。该设备支持视频显示分辨率高达3840 x 2160。

建立控制台连接

- 1 将主视频显示器连接到标记为“1”的HDMI接口。
- 2 如果还要使用辅助视频显示器，则对标记为“2”的HDMI连接器重复步骤1。

高密度多芯片互连
关系
转至次要
视频显示器

HDMI连接至主视
频
陈列

- 3 将控制台麦克风和扬声器连接到后面板上的3.5mm音频输出插座。

与控制台连接
麦克风和扬声器

- 4 控制台部分内有六个USB端口：两个全速（v2.0）A型接口用于键盘和鼠标，以及四个超高速（v3.0）A型蓝色接口——在使用高速或等时设备时非常有用。将所需设备连接到后面板上的USB接口。

控制台键盘和鼠标的
USB连接

与其他设备的USB连接
（包括SuperSpeed 3.0和/
或等时设备）

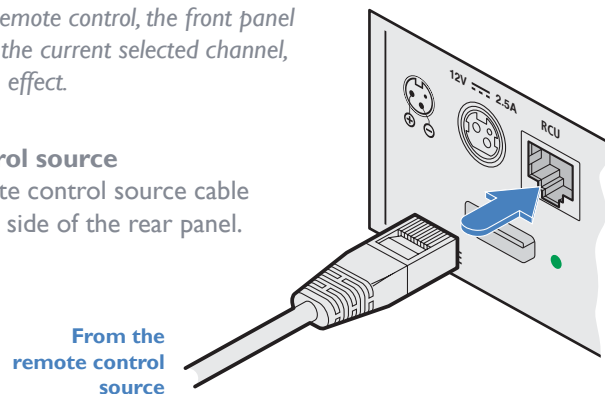
Remote control connection

The RCU port allows the switch unit to be connected to, and controlled by an external source. Refer to the API Manual (MAN-0000023) for further details.

Note: When the switch is under remote control, the front panel indicators will continue to reflect the current selected channel, however, the buttons will have no effect.

To connect a remote control source

- 1 Insert the plug from a remote control source cable into the RCU socket on left side of the rear panel.

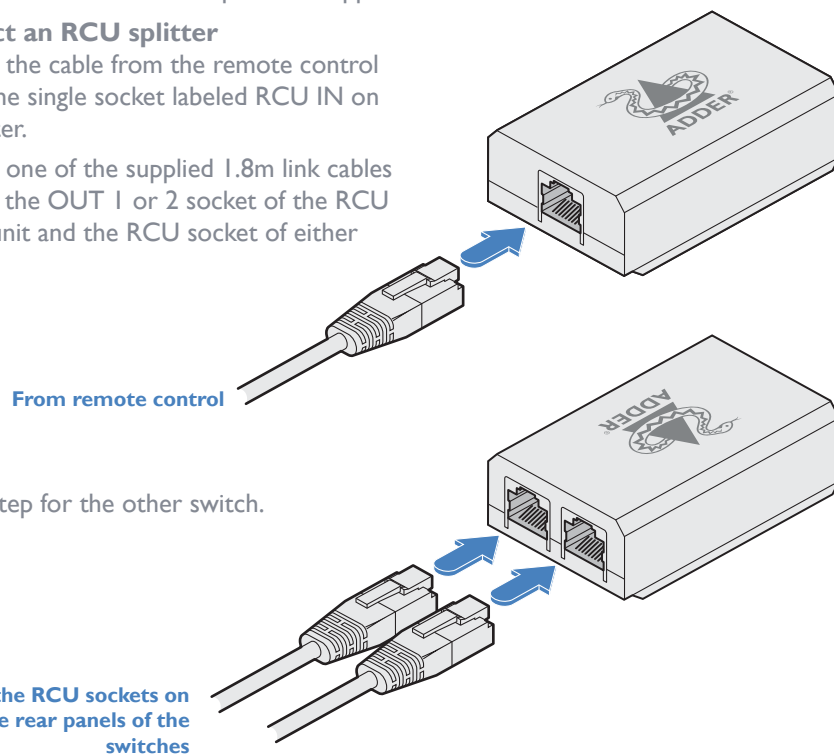


Remote control splitter connection

The optional RCU splitter unit allows you to control two switches in unison using just one remote control. The RCU splitter is supplied with two 1.8m link cables.

To connect an RCU splitter

- 1 Connect the cable from the remote control unit to the single socket labeled RCU IN on the splitter.
- 2 Connect one of the supplied 1.8m link cables between the OUT 1 or 2 socket of the RCU splitter unit and the RCU socket of either switch.



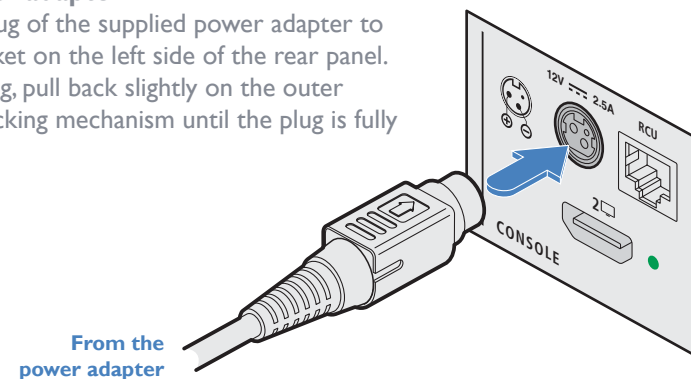
Power connection

IMPORTANT: Ensure that the video displays connected to the multi-viewer switch are powered on before applying power to the multi-viewer switch itself.

The supplied power adapter uses a locking-type plug to help prevent accidental disconnection from the multi-viewer switch; please follow the instructions below when disconnecting the power adapter.

To connect the power adapter

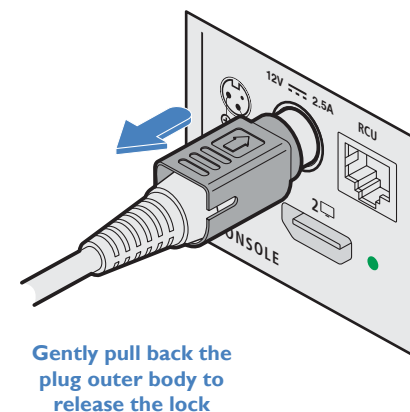
- 1 Attach the output plug of the supplied power adapter to the power input socket on the left side of the rear panel. As you insert the plug, pull back slightly on the outer body to assist the locking mechanism until the plug is fully inserted.



- 2 Attach the appropriate country-specific plug to the power adapter body and insert it into a nearby mains outlet.

To disconnect the power adapter

- 1 Isolate the power adapter from the mains supply.
- 2 Grasp the outer body of the power adapter plug where it connects with the node.
- 3 Gently pull the body of the outer plug away from the node. As the body of the plug slides back, it will release from the socket and you can fully withdraw the whole plug.



IMPORTANT: Please read and adhere to the electrical safety information given within the supplied safety guide. In particular, do not use an unearthed power socket or extension cable.

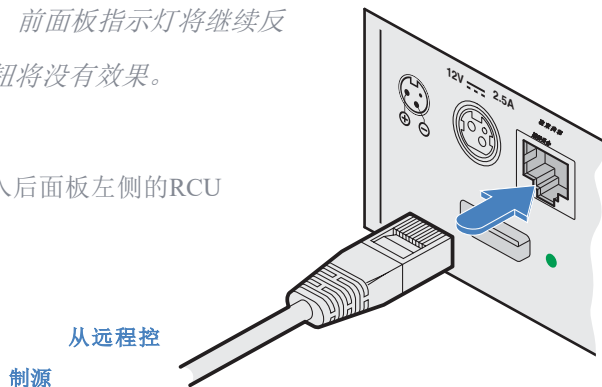
远程控制连接

RCU端口允许交换机单元连接到外部源并由外部源控制。有关详细信息，请参阅API手册（MAN-0000023）。

注：当开关处于远程控制时，前面板指示灯将继续反映当前所选通道，但是，按钮将没有效果。

连接远程控制源

- 1 将插头从遥控器电源线插入后面板左侧的RCU插口。



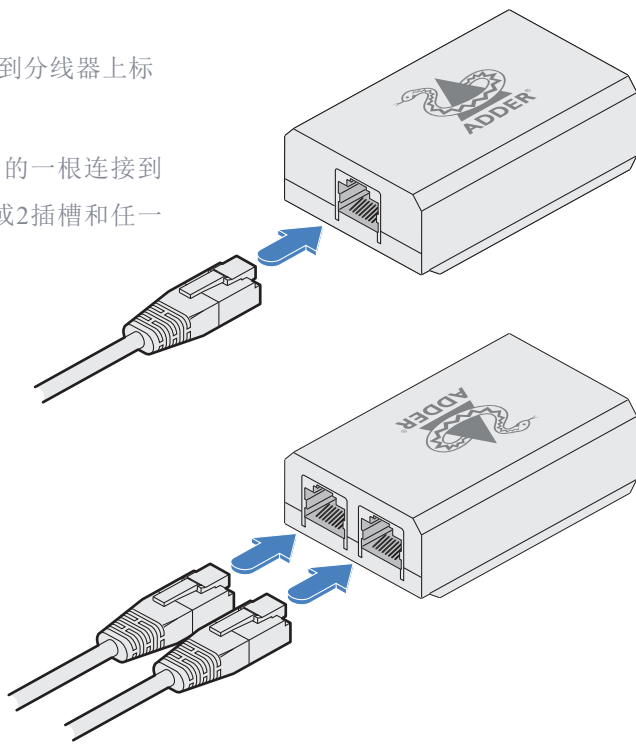
遥控器与分线器连接

可选的RCU分线器单元允许您使用一个遥控器同步控制两个开关。RCU分线器配两条1.8米长的连接线。

连接RCU分路器

- 1 将遥控器单元的电缆连接到分线器上标有“RCU IN”的单插座。
- 2 将提供的1.8米链路电缆中的一根连接到RCU分线器单元的OUT 1或2插槽和任一交换机的RCU插槽之间。

通过遥控器



打开时的RCU插槽
的后面板
转轨器

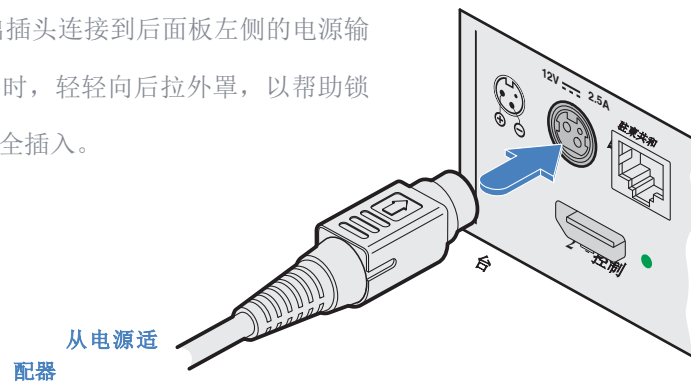
电源连接

重要提示：在为多画面切换器本身供电之前，请确保与多画面切换器相连的视频显示器已通电。

电源适配器使用锁定型插头，以帮助防止意外与多用户交换机断开连接；请在以下情况下遵循以下说明断开电源适配器。

连接电源适配器

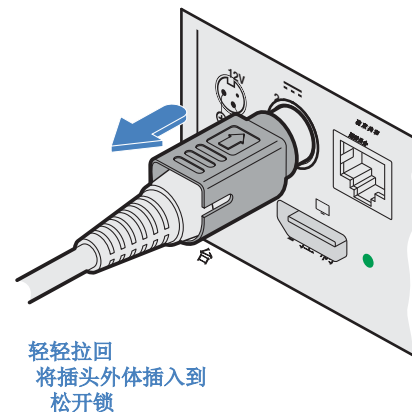
- 1 将电源适配器的输出插头连接到后面板左侧的电源输入插座上。插入插头时，轻轻向后拉外罩，以帮助锁定机构，直到插头完全插入。



- 2 将相应的国家专用插头连接到电源适配器主体，并将其插入附近的电源插座。

断开电源适配器

- 1 将电源适配器从主电源中分离。
- 2 抓住电源适配器插头的外侧，即插头与节点连接处。
- 3 轻轻将外插头的主体从节点上拉出。当插头主体滑回时，它就会从插座中释放出来，您可以完全抽出整个插头。



重要提示：请阅读并遵守所提供的安全指南中给出的电气安全信息。特别注意：请勿使用未接地的电源插座或延长线。

INITIAL DISPLAY SETUP

The multi-viewer switch defaults to an output resolution of 3840 x 2160. If you are using a display which only supports smaller resolutions, you will need to configure the output resolution to match.

This is performed using the hotkey combination: `L Ctrl | L Ctrl | F11 | d | #`

where # represents the desired resolution:

- 1 = 2048 x 2048
- 2 = 2560 x 1440
- 3 = 2560 x 1600
- 4 = 1920 x 1080
- 5 = 1920 x 1200
- 6 = 3840 x 1080
- 7 = 3440 x 1440
- 8 = 3840 x 2160

The above hotkey function is particularly useful if the output display is unable to display the default resolution and you cannot view the OSD menu.

GENERAL CONFIGURATION

The configuration of your multi-viewer switch is achieved through the OSD:

- *Video Settings*, including output resolution, scaling, borders, preset selection, etc.
- *Channel Settings*, including front panel display channel names and security levels, front panel button colors etc.
- *USB Settings*, including mouse configuration and hotkey choice.
- *Audio Settings*, including audio mixing and volume levels.
- *Advanced Operation*, including factory reset.

To access the OSD menu, type: `L Ctrl | R Ctrl | o`

The menu will appear in the bottom left part of the primary screen and you use your mouse to click the required options, with all changes being actioned upon exiting the OSD. See page 11.

Using with multi head computers

You can specify any combination of channels to be considered a single PC. A video connection is required to each input channel, together with a single USB and audio connection. *Note: Dual-head Macs are not supported.*

This functionality needs to be configured in the Video Settings page of the OSD. See “Multi Head (multi-select) Channel” on page 12.

Windows operation

In addition, a Windows 10 driver is required, which may be downloaded from www.adder.com.

On each multiple monitor computer, run the downloaded file. After accepting the licence agreement you will be prompted to choose a destination folder. Either accept the suggested location or change it, as necessary. No configuration is required.

Linux operation

A video, USB and audio connection is required to each channel, primary and secondary. No drivers are required.

初始显示设置

多视图切换器默认输出分辨率为3840 x 2160。如果使用仅支持较小分辨率的显示器，则需要配置输出分辨率以匹配。

这是使用热键组合执行的：*L Ctrl | L Ctrl | F11 | d | #*，其中，#表示所需的分辨率：

- 1 = 2048 x 2048
- 2 = 2560 x 1440
- 3 = 2560 x 1600
- 4 = 1920 x 1080
- 5 = 1920 x 1200
- 6 = 3840 x 1080
- 7 = 3440 x 1440
- 8 = 3840 x 2160

如果输出显示器无法显示默认分辨率且您无法查看OSD菜单，上述热键功能特别有用。

一般配置

通过OSD可配置多监视器切换器：

- *视频设置*，包括输出分辨率、缩放、边框、预设选择等。
- *频道设置*，包括前面板显示的频道名称和安全级别，前面板按钮颜色等。
- *USB设置*，包括鼠标配置和热键选择。
- *音频设置*，包括音频混合和音量级别。
- *高级操作*，包括出厂重置。

要访问OSD菜单，请键入：*L Ctrl | R Ctrl | o*

菜单将显示在主屏幕的左下方，使用鼠标单击所需选项，所有更改将在退出

OSD时生效。请参阅第11 11页。

与多头计算机一起使用

您可以指定要视为单个PC的任意通道组合。每个输入通道都需要视频连接，

以及一个USB和音频连接。*注意：不支持双头的Mac电脑。*

此功能需要在OSD的视频设置页面中进行配置。请参见第12页“多头（多选）通道”。

Windows操作

此外，还需要Windows 10驱动程序，可以从www.adder.com下载。

在每台多显示器计算机上，运行下载的文件。接受许可协议后，系统将提示您选择目标文件夹。根据需要，可以接受建议的位置或更改它。无需进行任何配置。

Linux操作

每个通道，主通道和次通道都需要视频、USB和音频连接。不需要驱动程序。

USING THE OSD

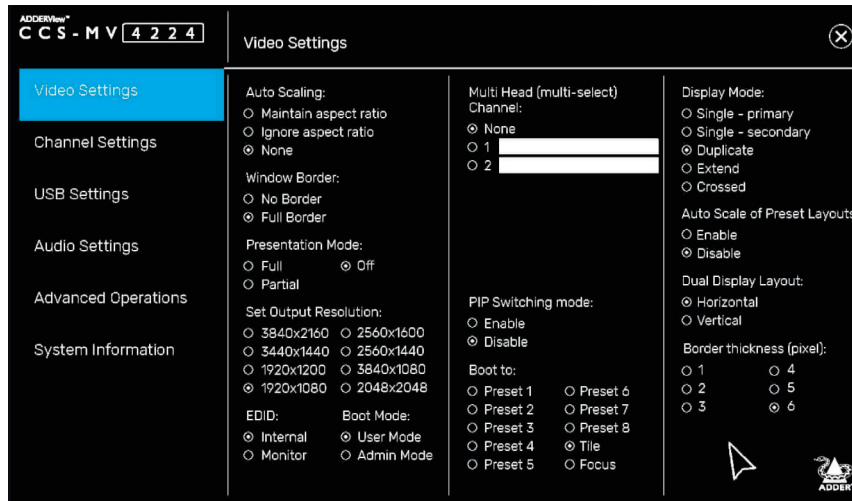
The OSD deals with settings that may need to be occasionally changed after the initial commissioning process, such as video, channel and USB settings. The various options within the OSD are divided into five distinct pages.

To enter the OSD

1 On the console keyboard, enter the following in succession:

- **Left Ctrl then Right Ctrl then o** (upper or lower case is accepted)

The menu will appear in the bottom left part of the primary screen.



2 Use your mouse to click the required option(s). There is no Apply button, all changes are actioned as soon as you click an option.

To exit the OSD

1 Click the **X** in the top right corner or press the Esc key.

OSD pages

The OSD options are separated into five distinct pages:

- [Video Settings](#)
- [Channel Settings](#)
- [USB Settings](#)
- [Audio Settings](#)
- [Advanced Operations](#)
- [System Information](#)

Channel names

The front panel display screen clearly shows the currently selected channel number (and audio channel) source(s). In addition, you can optionally choose to show a channel name:



Channel number and name plus audio source

Shown when remote control is connected

Note: If the selected channel is connected to a dual head PC (see page 12), then a '+' symbol will be displayed next to the channel number, eg CH: 1 + ADDER_01

To enter/edit a channel name

- 1 Access the OSD and select the Channel Settings page (see page 13).
- 2 Use the Channel Name option to enter the required name.

Changing channel indicator colors

On the front panel there is a numbered button for each channel. To assist with visual feedback for the operator you can change the highlight color for each button that will be shown as each channel is selected. The same color choice will also be used on the optional remote control, when used as well as for each window border.

To enter/edit a channel color

- 1 Access the OSD and select the Channel Settings page (see page 13).
- 2 Use the Channel Color option to select the required color.

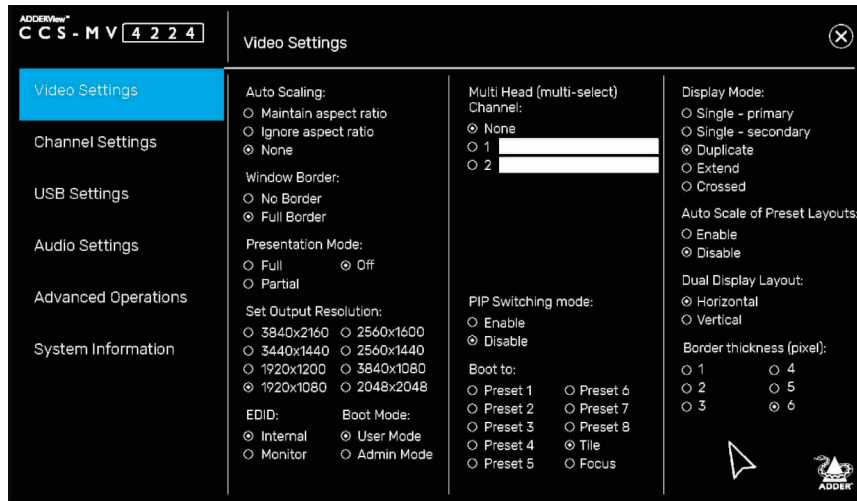
使用OSD

OSD处理在初始调试过程后可能需要偶尔更改的设置，例如视频、频道和USB设置。OSD中的各种选项分为五个不同的页面。

进入OSD

1 在控制台键盘上，依次输入以下内容：

- **Ctrl左键**，然后**Ctrl右键**，然后**o**（接受大写或小写）菜单将显示在主屏幕的左下方。



2 使用鼠标单击所需的选项(s)。没有“应用”按钮，所有更改在单击一个选项时立即生效。

退出OSD

1 单击右上角的**X**或按Esc键。

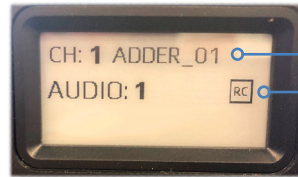
OSD页

OSD选项分为五个不同的页面：

- [视频设置](#)
- [频道设置](#)
- [USB设置](#)
- [音频设置](#)
- [高级操作](#)
- [系统信息](#)

通道名称

前面板显示屏清楚地显示当前所选频道号（和音频通道）源(s)。此外，您还可以选择显示频道名称：



频道号和名称以及音频源，当连接遥控器时显示

注：如果所选通道连接到双头PC（参见第12页），则通道编号旁边将显示“+”符号，例如CH: 1+ ADDER_01

输入/编辑频道名称

- 1 访问OSD并选择“频道设置”页面（参见第13页）。
- 2 使用“频道名称”选项输入所需的名称。

更改通道指示器颜色

前面板上每个通道都有一个带编号的按钮。为了帮助操作员获得视觉反馈，当选择某个通道时，可以更改每个按钮的高亮颜色。在使用可选遥控器时，将采用相同的颜色选择，也可用于每个窗口边框。

输入/编辑频道颜色

- 1 访问OSD并选择“频道设置”页面（参见第13页）。
- 2 使用“通道颜色”选项选择所需的颜色。

OSD - Video Settings

To get here

- On the console keyboard, enter the following in succession:
Left Ctrl then Right Ctrl then o (upper or lower case accepted)

Auto Scaling

Maintain aspect ratio - The channel video aspect ratio will be maintained when the user resizes the window. This will result in a black bar being displayed where the window aspect ratio differs.

Ignore aspect ratio - This mode is best when you wish to manipulate display windows to fill blank space on the display canvas.

None - The channel video size and aspect ratio will remain the same regardless of the window size.

Window Border

Defines whether a border is displayed for each channel window, or not. If displayed then the color of the border is determined by the Channel Color (see Channel Settings).

Presentation Mode

This mode relates to the behavior when switching using the front panel buttons:

Full - When switching to a new channel from the front panel, it will be displayed in full screen.

Partial - Tile and full-screen mode will be used alternately when switching to a new channel will be used when switching to a new channel.

Off - When switching to a new channel, the currently selected method of presentation will be retained.

Set Output Resolution

Choose the required output screen resolution. If two displays are connected, then the same resolution will be used for both.

IMPORTANT: Ensure that the display(s) support the desired output resolution. If not, the display will go blank. To resolve, change the output resolution using a hotkey: "L Ctrl | R Ctrl | D | # ", where # is 1 to 8.

EDID

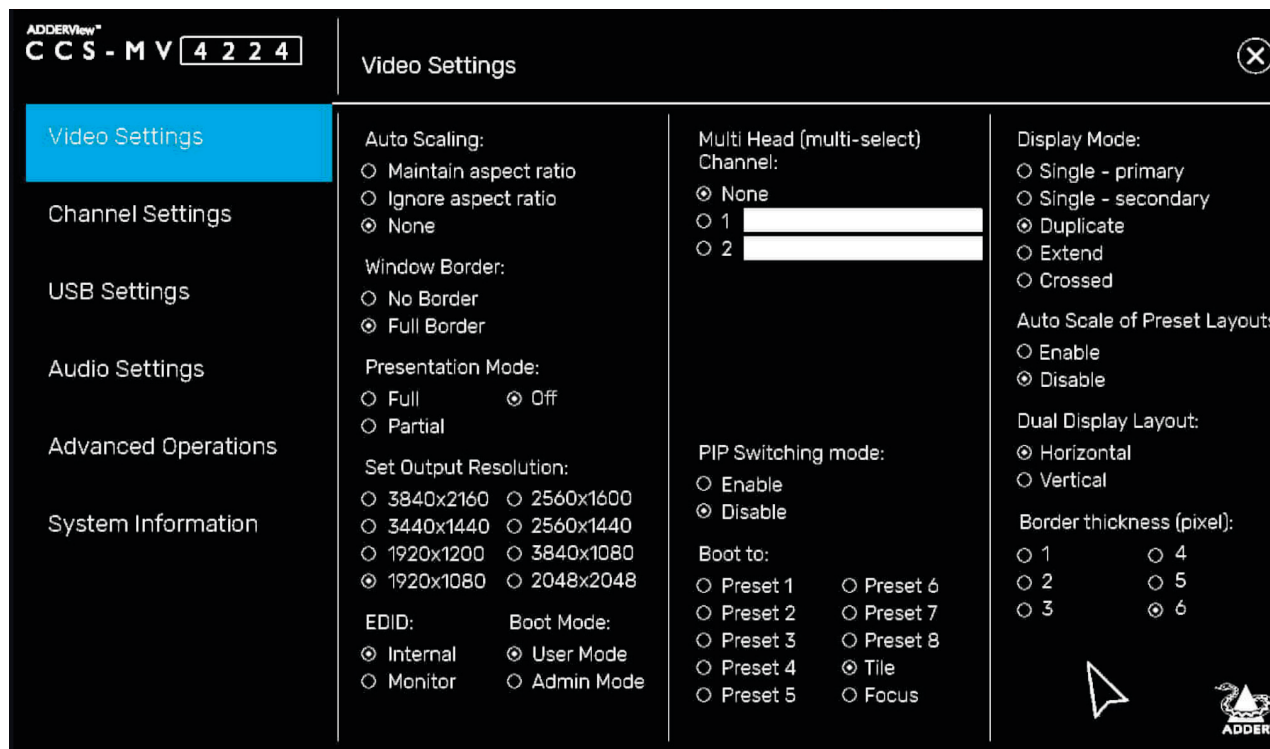
Allows you the choice of either using the internal EDID stored in the multi-viewer switch to present to the connected computers; or to use the EDID of the monitor(s) connected to the console port of the multi-viewer switch.

Boot Mode

In **User mode** you are interacting with the host computer, whereas in **System mode** you are interacting directly with the multi-viewer switch, for tasks such as moving or resizing windows.

Multi Head (multi-select) Channel

Allows you to specify any combination of channels to be considered a single PC. The default 'None' setting means that the input channels are treated as single head. Valid entries could include, e.g. 1+2+3, 1+4, etc.



PIP Switching Mode

Picture in Picture mode. When enabled, the multi-viewer will switch to a small window inset within a larger window. When disabled, the mouse instead passes behind the inset window.

Boot to

Determines which preset layout should be loaded at each power on boot.

Display Mode

Single - primary - Video is only output to video port #1. This option should be used if only connecting a single display.

Single - secondary - Video is only output on video port #2. This option would be used if, say sharing a second display between 2 multi-viewers.

Duplicate - The secondary display is a duplicate of the primary.

Extend - The display extends across both the primary and secondary displays. You can move windows between displays and define presets that utilize the extended desktop.

Crossed - Similar to Extend, except that the primary and secondary displays are reversed. To uncross, select Extend mode.

Auto Scale of Preset Layouts

When enabled, the preset layouts will fill the screen; if necessary, ignoring the aspect ratio. When disabled, the layout will respect the Auto Scaling setting.

Dual Display Layout

Defines how your video displays are arranged:

Horizontal - The displays positioned side by side.

Vertical - The displays are arranged top and bottom.

Border thickness (pixel)

Determines the thickness of the border highlight for all channel windows.

OSD-视频设置

到此地的路线

- 在控制台键盘上，依次输入以下内容：**左Ctrl** 然后 **右Ctrl** 然后 **0**（接受大写或小写）

自动缩放

保持宽高比—当用户调整窗口大小时，频道视频的宽高比将保持不变。这将导致在窗口宽高比不同的位置显示黑条。

忽略纵横比—当您希望操作显示窗口以填充显示画布上的空白区域时，此模式效果最佳。

无—无论窗口大小如何，频道视频大小和宽高比都将保持不变。

窗口边框

定义是否为每个通道窗口显示边框。如果显示，则边框的颜色由通道颜色决定（请参见通道设置）。

展示模式

此模式与使用前面板按钮进行切换时的行为有关：

全屏—从前面板切换到新频道时，将全屏显示。

部分—在切换到新频道时，将交替使用平铺和全屏模式。

关—切换到新频道时，将保留当前选择的显示方式。

设置输出分辨率

选择所需的输出屏幕分辨率。如果连接了两个显示器，则将为两者使用相同的分辨率。

重要提示：请确保显示器支持所需的输出分辨率。如果显示器不支持，则会显示空白。要解决此问题，请使用热键“**L Ctrl | R Ctrl | D | #**”更改输出分辨率，其中#的值为1至8。

扩展显示器识别数据

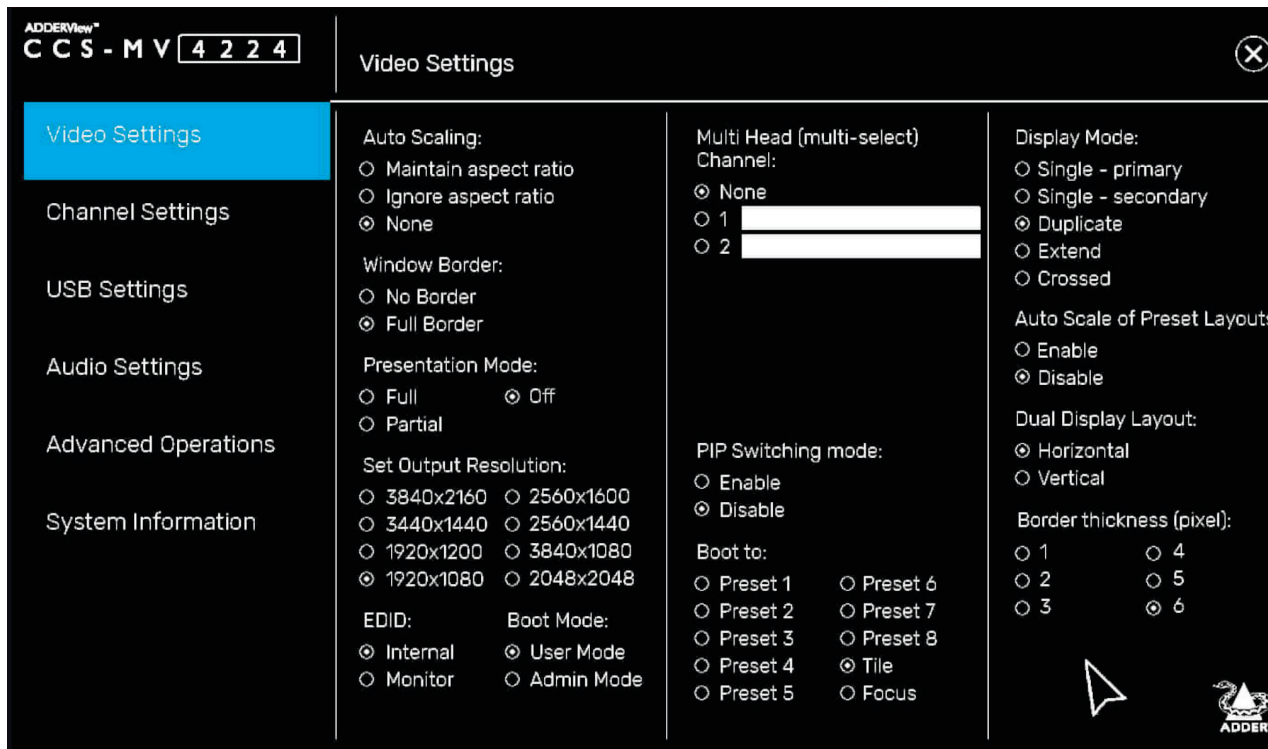
允许您选择使用存储在多监视器交换机中的内部EDID向连接的计算机显示，或者使用连接到多监视器交换机控制台端口的监视器的EDID。

启动模式

在**用户模式**下，您与主机进行交互，而在**系统模式**下，您直接与多查看器交换机进行交互，例如移动窗口或调整窗口大小。

多头（多选择）通道

允许您指定要视为单个PC的通道的任意组合。默认的“None”设置意味着将输入通道视为单个磁头。有效的条目可以包括，例如：1+2+3、1+4等。



PIP交换模式

画中画模式。启用此模式时，多视图程序将切换到一个嵌入在较大窗口中的小窗口。禁用此模式时，鼠标将经过嵌入窗口的后面。

启动到

确定在每次开机时应加载的预置布局。

显示模式

单一-主视频—只有视频端口#1会输出视频。如果只连接一个显示器，应使用此选项。

单一-次—视频仅通过视频端口#2输出。例如，如果要在两个多画面器之间共享第二个显示器，则将使用此选项。**复制**—次显示器是主显示器的副本。

扩展—显示器可扩展到主显示器和辅助显示器上。您可以在两个显示器之间移动窗口，并可定义使用扩展桌面的预设。

交叉—类似于Extend，不同之处在于主显示器和辅助显示器的位置相反。要解除交叉，请选择Extend模式。

预置版面的自动缩放

启用时，预置版式将填充屏幕；如果需要，将忽略宽高比。禁用时，版式将遵循自动缩放设置。

双显示器布局

定义视频显示的排列方式：
横向——并排布置的显示器。

垂直——显示器上下排列。

边框厚度（像素）

确定所有通道窗口的边框高亮显示的厚度。

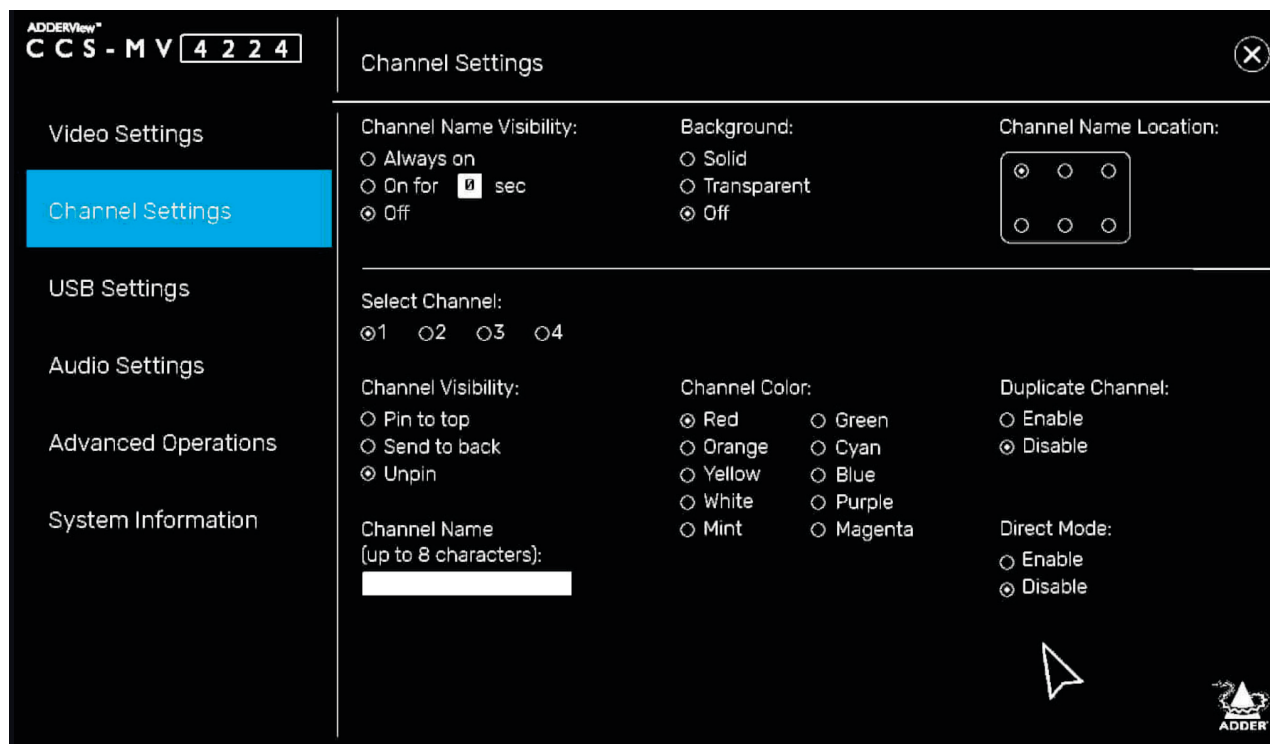
OSD - Channel Settings

To get here

1 On the console keyboard, enter the following in succession:

Left Ctrl then Right Ctrl then o (upper or lower case accepted)

2 Click the **Channel Settings** menu item.



Channel Name Visibility/Background/Location

Option to display the channel name within the channel window. Duration of persistence, background transparency and location can be configured.

Channel Visibility

By default, a window is unpinned, which means it may be located on top or behind other windows, as they are moved across the display. Alternatively, the window may be pinned to the top or sent to the back.

Channel Name

Allows you to add a name for each channel. To do so: Select a channel number in the upper section, enter the name in the Channel Name field (up to 8 characters) and press Return.

Channel Color

On the front panel there is a numbered button for each channel. To assist with visual feedback for the operator you can change the highlight color for each button and window border color that will be shown as each channel is selected.

Duplicate channel

A channel can be selected to be duplicated which will add a second instance of the channel into the canvas. This can either be used in presets or to add consistency when in “focus” mode so that the smaller windows do not move when in this view mode.

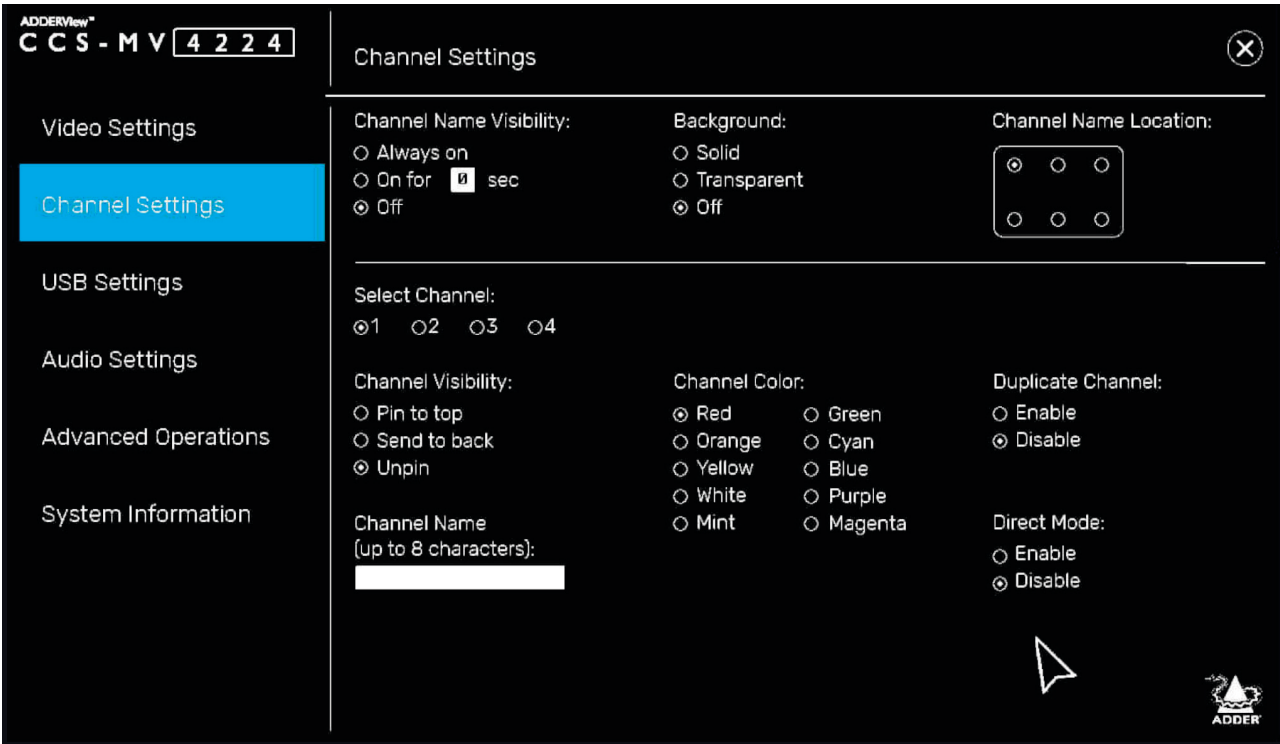
Direct Mode

When enabled for a channel, and that channel is put into full screen mode, the switch will bypass all image processing and feed the video directly to the monitor to allow for increased image quality and reduced latency.

OSD -通道设置

到此地的路线

- 1 在控制台键盘上，依次输入以下内容：左Ctrl 然后 右Ctrl 然后 o （接受大写或小写）
- 2 单击 “通道设置” 菜单项。



通道名称可见性/背景/位置

选项，显示通道窗口内的通道名称。可以配置持续时间、背景透明度和位置。

信道可见性

默认情况下，窗口是未固定的，这意味着当其他窗口在屏幕上移动时，它可能会位于其他窗口的顶部或后面。或者，窗口可以固定在顶部或发送到后面。

通道名称

允许您为每个通道添加一个名称。为此：在上半部分中选择一个通道编号，在通道名称字段中输入名称（最多8个字符），然后按回车键。

通道颜色

前面板上有一个用于每个通道的编号按钮。为了帮助操作员获得视觉反馈，您可以更改每个按钮的高亮颜色和窗口边框颜色，当选择每个通道时将会显示这些颜色。

重复频道

可以选择要复制的通道，这将在画布中添加该通道的第二个实例。此功能可用于预设，也可用于在“聚焦”模式下添加一致性，以便在该视图模式下较小的窗口不会移动。

直接模式

为通道启用该功能后，如果该通道处于全屏模式，则开关将绕过所有图像处理，并将视频直接馈入监视器，从而提高图像质量和降低延迟。



OSD - USB Settings

To get here

- 1 On the console keyboard, enter the following in succession:
Left Ctrl then **Right Ctrl** then **o** (upper or lower case accepted)
- 2 Click the **USB Settings** menu item.



Mouse Parking

Refers to hiding the mouse when the user moves to the other monitor.

CTRL Key

Allows you to choose which Ctrl button on the keyboard that will be used as a hotkey.

Device Emulator Interfaces

Specifies the user interface peripheral capabilities that are communicated to the host PC.

Note: Consumer Report is a type of keyboard. Some versions of Linux do not support Absolute Mouse mode.

Note: Mac keyboards aren't supported, although the user may connect to a Mac host PC.

Keyboard Hotkeys

Determines whether keyboard hotkeys can be used.

Keyboard Shortcuts

Reserved for future use.

Mouse Mode

Defines the behavior of the multi-viewer system. Absolute mode is recommended for most users. Relative mode will disable mouse-based switching; leaving the front panel or hotkeys as the available switching methods.

Note: Ensure that whichever Mouse Mode is selected, the corresponding Device Emulator setting is also enabled.

External API

Determines whether external API routines can be used.

Mouse Switching

Determines which of the extra buttons of specially-equipped mouse devices can be used to switch channels.



OSD - USB设置

到此地的路线

- 1 在控制台键盘上，依次输入以下内容：左Ctrl 然后 右Ctrl 然后 0 （接受大写或小写）
- 2 单击USB设置菜单项。



小鼠停放

指当用户移动到另一台显示器时隐藏鼠标。

控制键

允许您选择键盘上的哪个Ctrl按钮将用作热键。

设备模拟器接口

指定与主机PC通信的用户界面外围功能。

注意：Consumer Report 是一种键盘。某些版本的Linux 不支持绝对鼠标模式。

注意：不支持Mac 键盘，尽管用户可以连接到Mac 主机PC。

键盘快捷键

确定是否可以使用键盘热键。

快捷键

保留以备将来使用。

小鼠模式

定义多查看器系统的运行方式。建议大多数用户采用绝对模式，相对模式将禁用鼠标切换功能，保留前面板或热键作为可用的切换方法。

注：确保无论选择哪种鼠标模式，都启用相应的设备模拟器设置。

外部API

确定是否可以使用外部API例程。

小鼠切换

确定特殊配置的鼠标设备的附加按钮中哪些按钮可用于切换频道。



安装

配置

业务

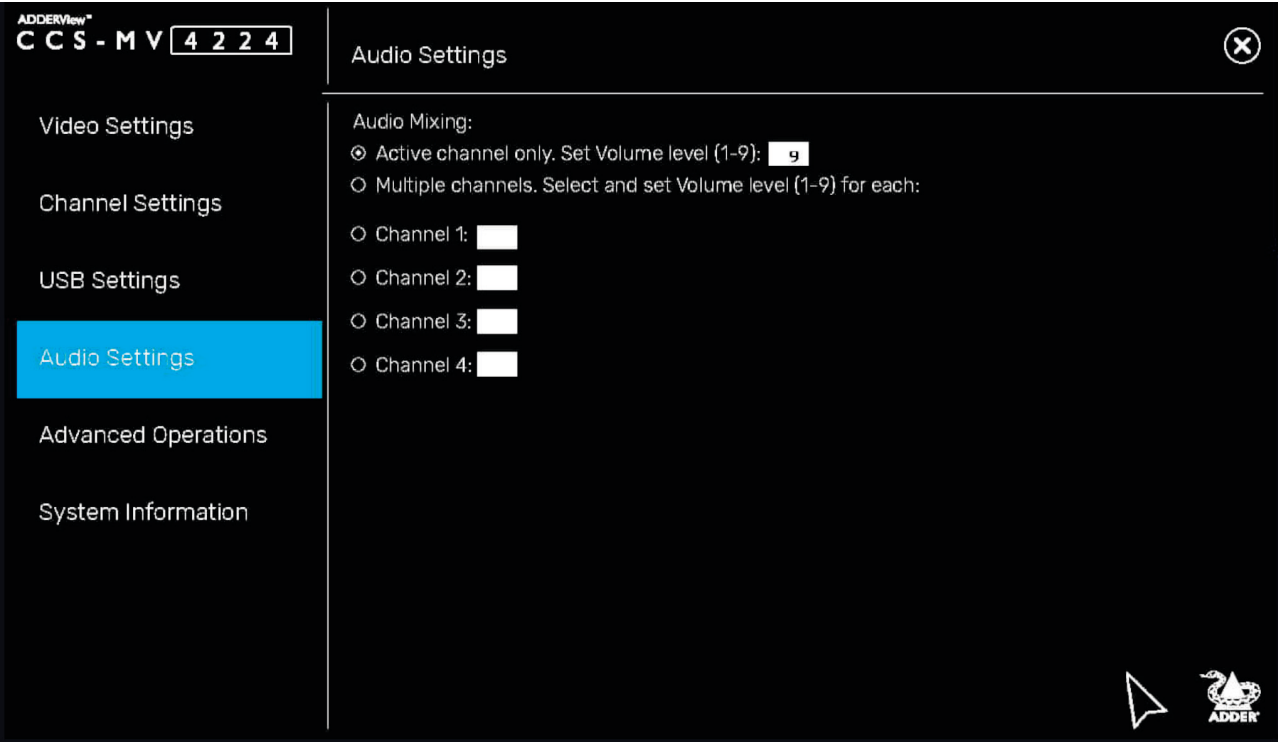
其他

索引

OSD - Audio Settings

To get here

- 1 On the console keyboard, enter the following in succession:
Left Ctrl then Right Ctrl then o (upper or lower case accepted)
- 2 Click the **Audio Settings** menu item.



Audio Mixing

It refers to output only and only applies to digital audio from the HDMI port.

Note: Analog audio is always to single channel; either selected or on-hold.

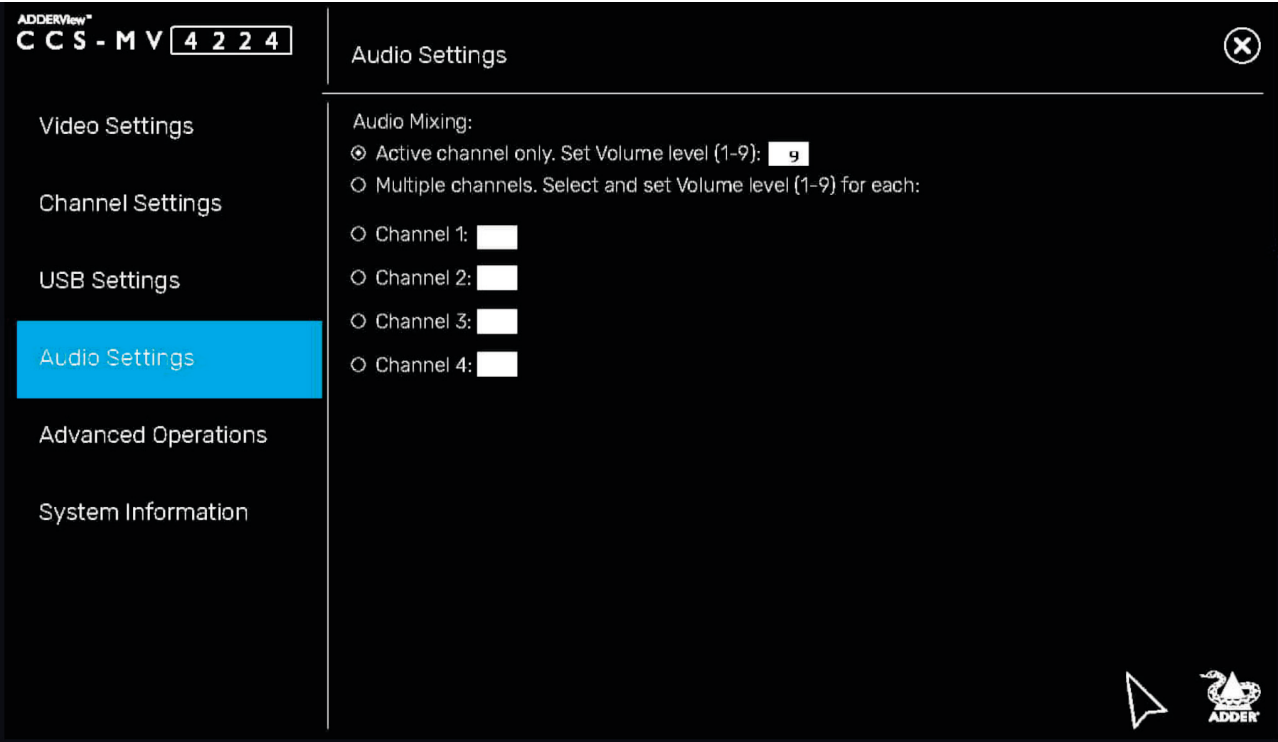
The front panel audio Hold button only applies to analog audio.



OSD -音频设置

到此地的路线

- 1 在控制台键盘上，依次输入以下内容：左Ctrl 然后 右Ctrl 然后 o （接受大写或小写）
- 2 单击音频设置菜单项。



混音

它只指输出，而且只适用于来自HDMI端口的数字音频。

注：模拟音频始终为单通道，无论选择与否或处于保持状态。
前面板音频保持按钮仅适用于模拟音频。



安装

配置

业务

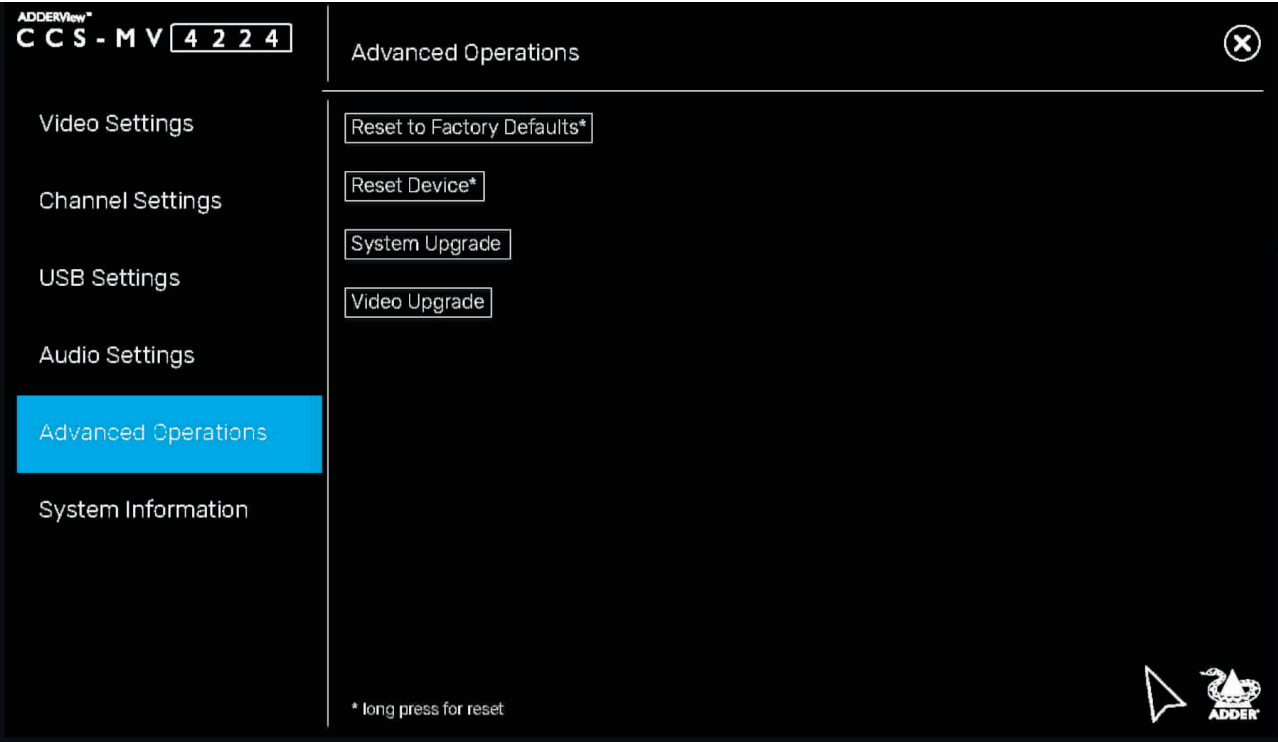
其他资料

索引

OSD - Advanced Operations

To get here

- 1 On the console keyboard, enter the following in succession:
Left Ctrl then Right Ctrl then o (upper or lower case accepted)
- 2 Click the **Advanced Operations** menu item.



Reset to Factory Defaults

Removes all user entered configuration details. This operation cannot be undone.

Note: To avoid accidental resets, press and hold (for over 4 seconds), then release.

Reset Device

Effectively reboots the multi-viewer.

Note: To avoid accidental resets, press and hold (for over 4 seconds), then release.

System Upgrade / Video Upgrade

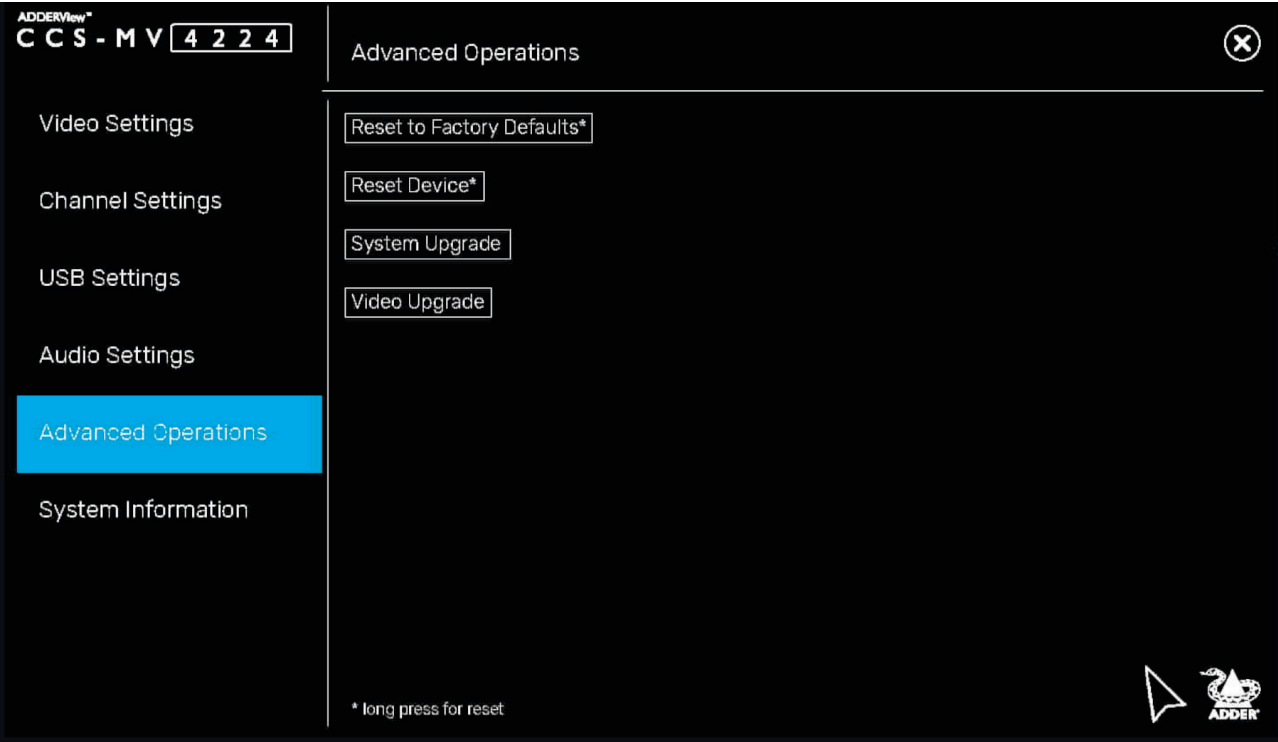
Hold for over 2 seconds and release to initiate either System or Video FPGA firmware upgrades. The label will blink whilst the upgrade is in progress. See page 20 for a description of the upgrade procedure.



OSD -高级操作

到此地的路线

- 1 在控制台键盘上，依次输入以下内容：左Ctrl 然后 右Ctrl 然后 o （接受大写或小写）
- 2 单击 “高级操作” 菜单项。



重置为出厂默认值

删除所有用户输入的配置详细信息。此操作无法撤消。

注意：为避免意外重置，请按住（超过4秒），然后松开。

重置设备

有效重新启动多用户。

注意：为避免意外重置，请按住（超过4秒），然后松开。

系统升级/视频升级

长按超过2秒并松手，即可启动系统或视频FPGA固件升级。升级进行时，标签会闪烁。有关升级过程的说明，请参阅第20页。



安装

配置

业务

其他资料

索引

OSD - System Information

To get here

- 1 On the console keyboard, enter the following in succession:
Left Ctrl then Right Ctrl then o (upper or lower case accepted)
- 2 Click the **System Information** menu item.

ADDERView[®]

C C S - M V 4 2 2 4

Video Settings

Channel Settings

USB Settings

Audio Settings

Advanced Operations

System Information

System Information

System Type: Commercial

System Controller: 13070424

FPGA: 374.5.6 <C>

Video Controller: N.A

Front Panel: 20300822

ADDER

This page is intended to aid technical support. It displays the version number for the System and Video Controllers, plus Front Panel firmware. It also displays the Video FPGA version and System Type: (Secured or Commercial).



INSTALLATION

CONFIGURATION

OPERATION

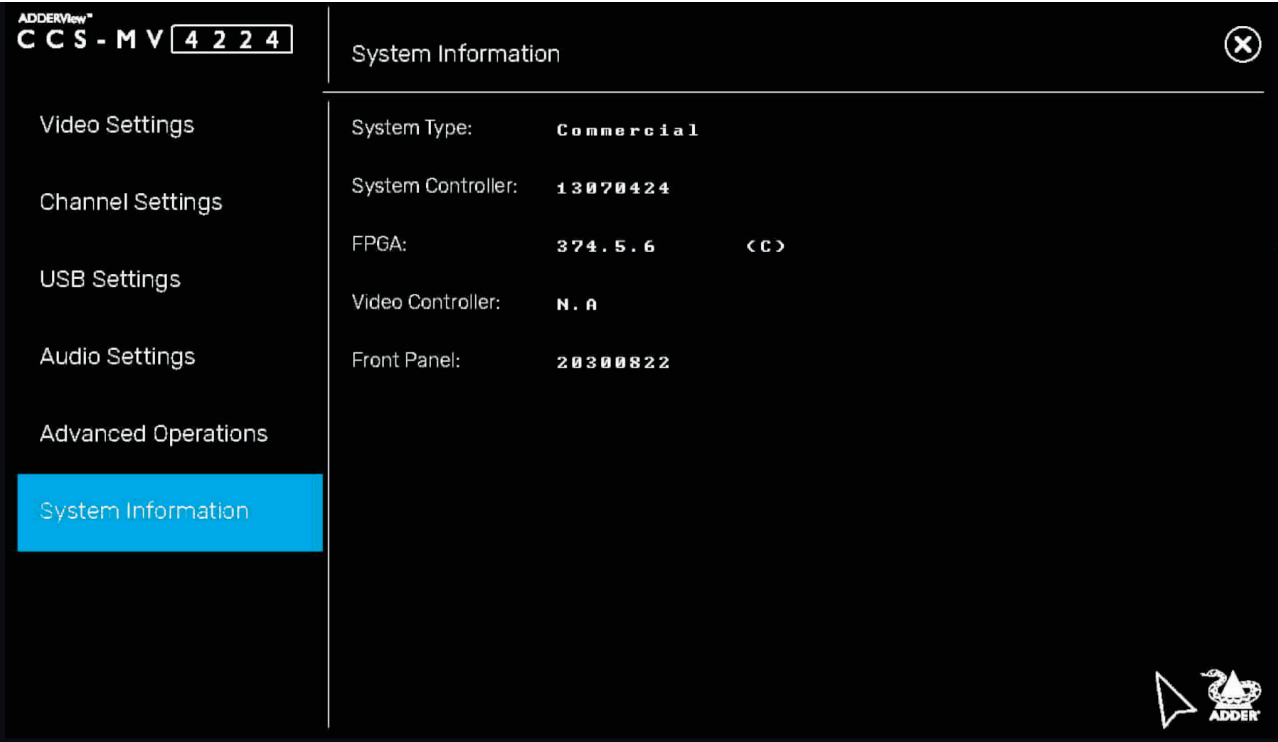
FURTHER INFORMATION

INDEX

OSD -系统信息

到此地的路线

- 1 在控制台键盘上，依次输入以下内容：左Ctrl 然后 右Ctrl 然后 o（接受大写或小写）
- 2 单击 “系统信息” 菜单项。



此页面旨在帮助技术支持。它显示系统和视频控制器的版本号，以及前面板固件。它还显示视频FPGA版本和系统类型：（安全或商业）。



安装

配置

业务

其他资料

索引

COPY & PASTE

The optional Copy & Paste function enables seamless, high-speed copying of files and text from one Windows 10 computer to another. For details about using this feature, please see page 24.

There are two ways to use the Copy & Paste function:

Mode 1: *Using the internal COM Device* - used for transferring only text, up to 1,000 characters and requires no external storage device.

Mode 2: *Using an external USB Device* - can transfer files as well as text.

To use either of these options, you first need to download and install a small driver file onto all computers that are required to use the Copy & Paste function. You then need to enable the required mode: *COM Device* (see right) or *USB Device* (see page 19).

Installing the Copy & Paste driver

This stage needs to be carried out regardless of the chosen mode.

To install the driver

- 1 Connect the computers and user peripherals to the various ports of the multi-viewer switch, as discussed earlier in this chapter.

Note: Ensure all devices and computers are connected prior to powering the multi-viewer switch on. Some devices, such as user displays, are not recognized if connected after the switch is already powered on.

- 2 Download the Copy & Paste driver file from the Adder website:
www.adder.com
- 3 Install the driver file separately onto each computer that will use the Copy & Paste function. Once the software has been installed successfully, a software shortcut will appear on the desktop and a setup icon will appear on the taskbar of each computer.
- 4 You now need to enable the required Copy & Paste option:
 - COM device uses the multi-viewer COMputer on-board memory (see right).
 - USB device uses an external USB memory device (flash drive) for copying larger amounts of data - see page 19.

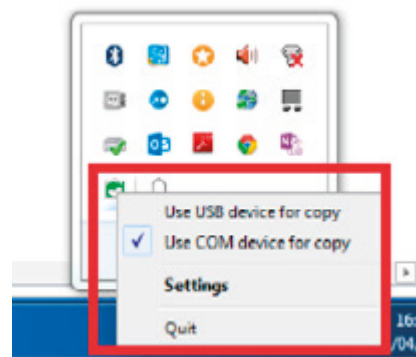
Enabling the COM Device mode

(If you wish to enable the USB Device mode, see the next page.)

This mode allows you to copy & paste up to 1,000 plain text characters using the switch's memory for storage. It is designed to support the quick transfer of short text information between sources, such as telephone numbers, emails, web links, etc.

To enable the COM Device mode

- 1 Carry out these steps on **every** computer that will use the Copy & Paste function:
 - a Press: **Left Ctrl** then **Right Ctrl** then **q**
 - b From the taskbar on the desktop, locate the setup icon, and right-click on it to open the menu below:



- c Click Settings and in the window that opens, click Show advanced settings.
 - d From the additional tabs that open, choose the COM Device tab.
 - e In the window that opens, tick the Use COM Device checkbox and click OK.

复制和粘贴

“复制并粘贴”是可选功能，它使从一台Windows 10计算机到另一台Windows 10计算机的文件和文本的复制变得非常方便、快速。有关使用此功能的详细信息，请参阅第24页。

使用“复制和粘贴”功能有两种方式：

模式1：使用内部COM设备，仅用于传输文本，最多1000个字符，不需要外部存储设备。

模式2：使用外部USB设备 - 可以传输文件以及文本。

要使用这两个选项中的任一选项，首先需要下载并安装一个小型驱动程序文件到所有需要使用复制和粘贴功能的计算机上。然后需要启用所需模式：COM设备（请参阅右侧）或USB设备（请参阅第19页）。

安装复制和粘贴驱动程序

无论选择何种模式，都需要执行此阶段。

安装驱动程序

1 将计算机和用户外围设备连接到多视图器交换机的各个端口，如本章前面所讨论的。

注意：在为多视图器开关通电之前，确保所有设备和计算机都已连接。如果在开关已经通电之后连接某些设备，例如用户显示器，则无法识别这些设备。

2 从Adder网站下载复制和粘贴驱动程序文件：

www.adder.com

3 将驱动程序文件单独安装到每个将使用“复制和粘贴”功能的计算机上。成功安装软件后，软件快捷方式将出现在桌面上，并且每个计算机的任务栏上将出现安装程序图标。

4 现在需要启用所需的“复制和粘贴”选项：

- COM设备使用多查看器COMputer板载存储器（参见右侧）。
- USB设备使用外部USB存储器（闪存驱动器）来拷贝大量数据——请参阅第19页。

启用COM设备模式

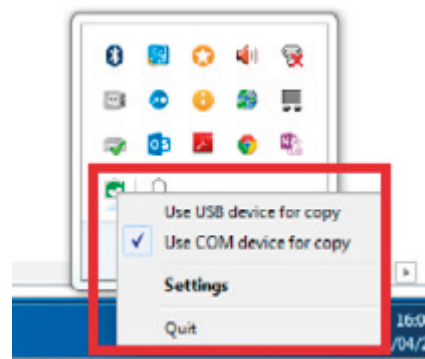
（如果希望启用USB设备模式，请参见下一页。）

此模式允许您使用交换机的存储器来复制和粘贴多达1000个纯文本字符。它旨在支持在源之间快速传输短文本信息，如电话号码、电子邮件、网页链接等。

启用COM设备模式

1 在将使用“复制和粘贴”功能的每台计算机上执行以下步骤：按住左Ctrl，然后按住 q

b在桌面上的任务栏中，找到安装程序图标，右键单击它以打开下面的菜单：



c单击“设置”，在打开的窗口中单击“显示高级设置”。

d从打开的其他选项卡中，选择COM设备选项卡。

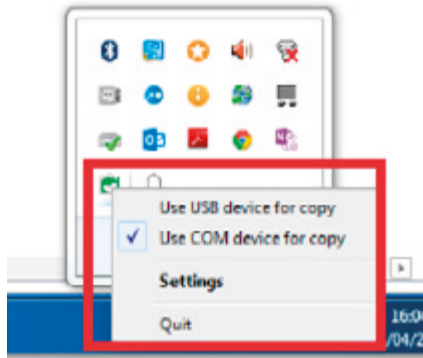
e在打开的窗口中，选中“使用COM设备”复选框，然后单击“确定”。

Enabling the USB Device mode

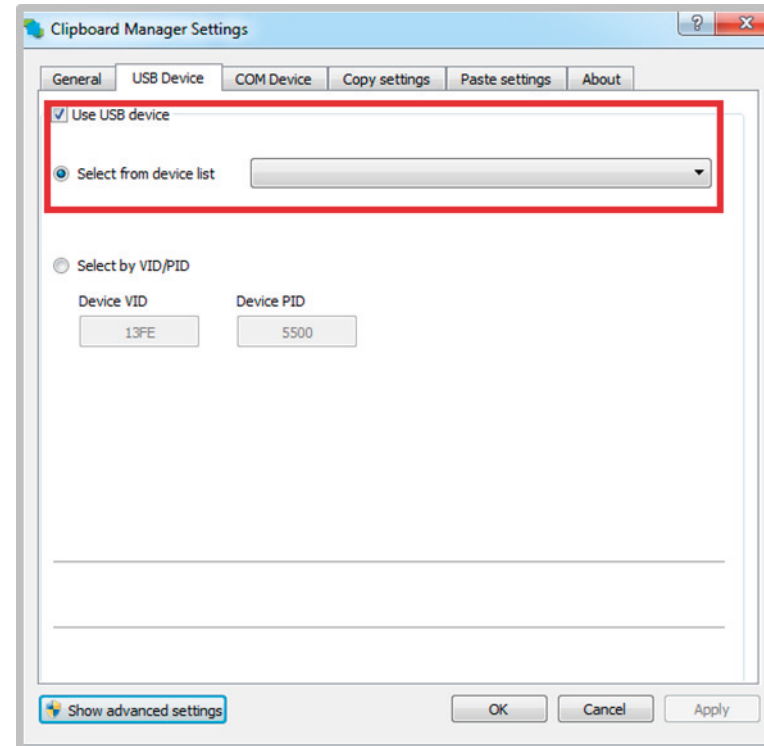
This mode allows you to copy & paste text and files using an external USB storage device as the temporary memory. Each host computer must have a USB link between it and the switch.

To enable the USB Device mode

- 1 Connect an external FAT32-formatted USB storage device to one of the USB 3.0 Console ports on the rear panel of the switch. This USB storage device should appear on the computer's drivers list.
- 2 On **every** computer that will use the Copy & Paste function:



- a On the taskbar, locate the setup icon and right-click on it to open the menu below:



- b Click the Settings option and then click Show advanced settings.
- c Click the USB Device tab.
- d Select the Use USB Device checkbox.
- e From the Select from device list, select the USB storage device.
- f Click OK.

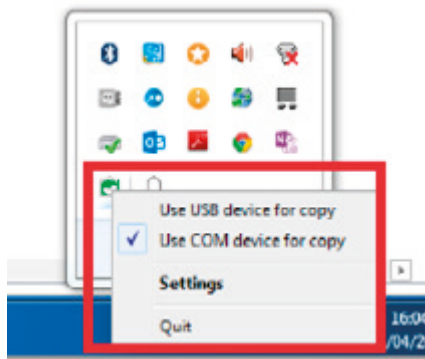
启用USB设备模式

此模式允许您使用外部USB存储设备作为临时存储器来复制和粘贴文本和文件。

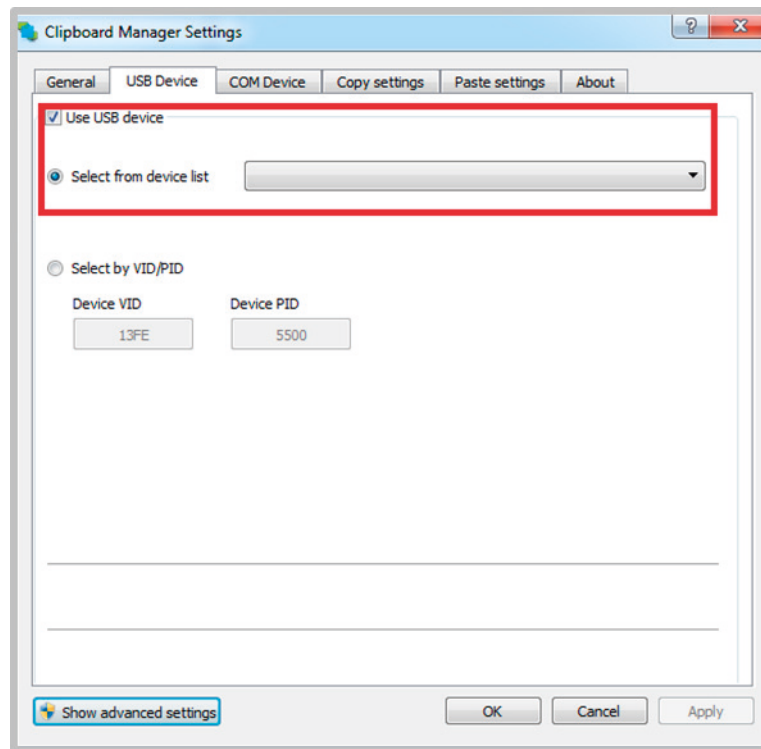
每台主机必须在它和交换机之间具有USB连接。

启用USB设备模式

- 1 将外部FAT32格式的USB存储设备连接到交换机后面板上的一个USB 3.0控制台端口。此USB存储设备应显示在计算机的驱动程序列表中。
- 2 在将使用复制和粘贴功能的每个计算机上：



a在任务栏上，找到安装程序图标并右键单击它以打开下面的菜单：



b单击“设置”选项，然后单击“显示高级设置”。

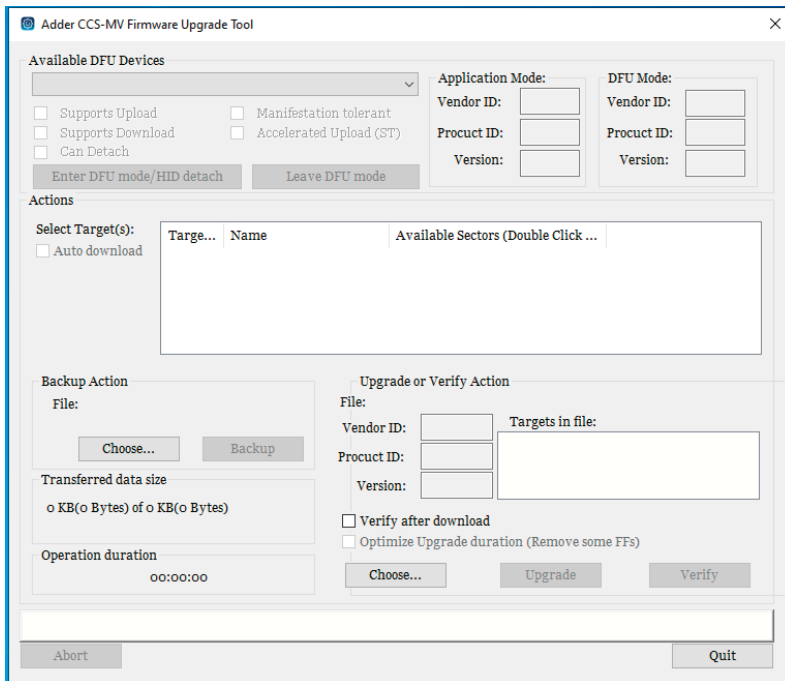
c单击“USB设备”选项卡。

d选中“使用USB设备”复选框。

e从“选择设备”列表中，选择USB存储设备。f单击“确定”。

CCS-MV UPGRADE PROCESS

- 1 Download and install Adder CCS-MV Firmware Upgrade tool from Adder.com on a PC not connected to the multi-viewer switch.
- 2 Power up the multi-viewer and open the OSD (Left Ctrl | Right Ctrl | O).
 - a For System Firmware upgrade select “Advanced operations” -> “System Upgrade”.
 - b For Video Firmware upgrade select “Advanced operations” -> “Video Upgrade”.
- 3 An “Upgrade” message will be displayed on the unit’s front panel. The selected option is shown as blinking on the OSD.
 Note: Only one firmware may be upgraded at a time. Repeat the process if both upgrades are required.
- 4 Connect a USB A to A cable from the PC to the unit’s upper K/M port.



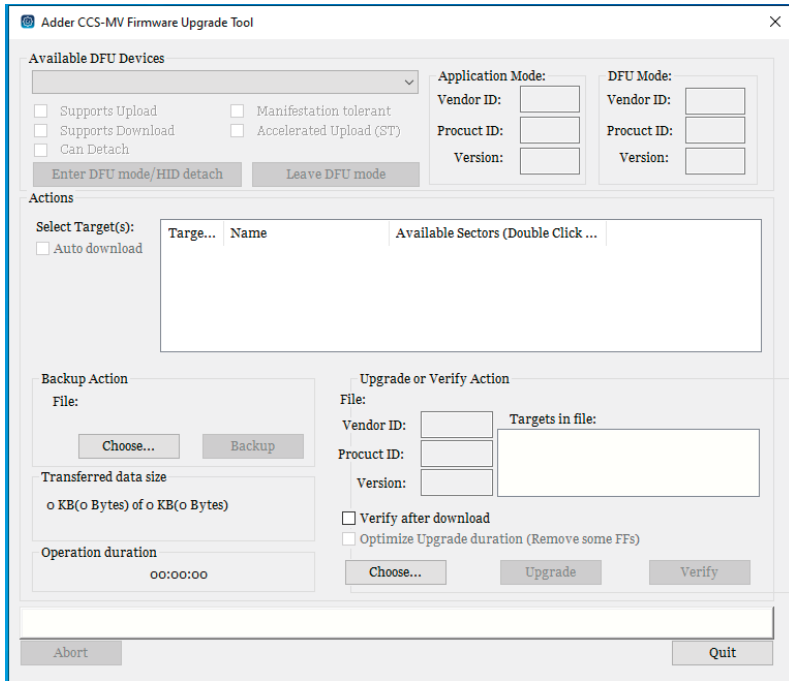
- 5 Open the Upgrade Tool and configure as follows:
 - a Select “STM Device in DFU mode” under “Available DFU Devices”.
 - b Within the “Upgrade or Verify Action” section press “Choose...” to select the firmware file.
 - c Select “Upgrade” to initiate the process. The progress bar will then indicate progress.
- 6 Wait for the upgrade process to be completed, whereupon a “Verify complete” message will appear on the progress bar.
- 7 Disconnect the USB A to A cable and power cycle the unit.
- 8 For each firmware file to be upgraded, repeat steps 2 to 7.

Troubleshooting

Issue	Remedy
“STM Device in DFU mode” does not appear.	1 Check the driver installation under C:\Program Files (x86)\Adder Technology\Firmware Upgrade Tool\Driver\x86 2 Install the driver: STtube30.sys manually. 3 “STM Device in DFU Mode” should now reported under serial bus controllers in Device Manager.
System upgrade incomplete.	1 Disconnect the USB A to A cable. 2 Power cycle the unit, whilst at the same time depress the channel 1 and channel 4 buttons simultaneously on the front panel. 3 The unit will enter upgrade mode, whereby an “Upgrade” message is displayed on the front panel. 4 Repeat the upgrade process from step #4.
Video FPGA upgrade incomplete.	1 Disconnect the USB A to A cable. 2 Enter the hotkey Left Ctrl Right Ctrl Ins 2. 3 The unit will enter upgrade mode, whereby an “Upgrade” message is displayed on the front panel. 4 Repeat the upgrade process from step #4.
FW doesn’t initiate properly. Error code 0xC000007B or “mfc140.dll missing” message.	Download and install Microsoft Visual C++ Redistributable 2015-2019 (x86), which can be found at: https://docs.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170

CCS-MV升级过程

- 1 在未连接到多视图切换器的电脑上，从Adder.com下载并安装Adder CCS-MV固件升级工具。
- 2 为多视图器通电并打开OSD（左Ctrl|右Ctrl|O）。
 - a系统固件升级请选择“高级操作”->“系统升级”。b视频固件升级请选择“高级操作”->“视频升级”。
- 3 “升级”消息将显示在设备前面板上。所选选项在OSD上显示为闪烁。
注意：一次只能升级一个固件。如果需要同时升级两个固件，请重复此过程。
- 4 将USB A to A 电缆从电脑连接到设备的上部K/M端口。

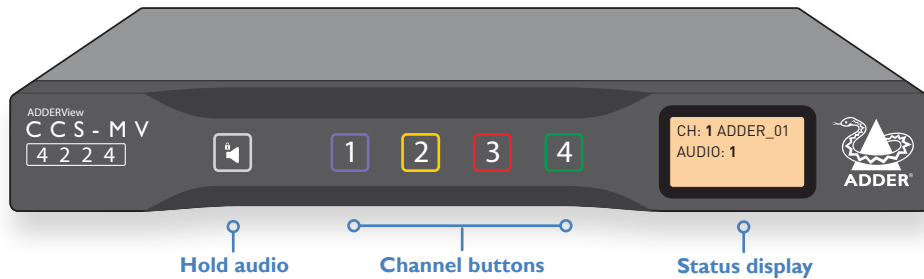


- 5 打开升级工具并按如下所示进行配置：
 - a在“可用DFU设备”下选择“处于DFU模式的STM设备”。
 - b在“升级或验证操作”部分中，按“选择...”以选择固件文件。
 - c选择“升级”以启动该过程。进度条将显示进度。
- 6 等待升级过程完成，然后出现“验证完成”消息将显示在进度条上。
- 7 断开USB A到A线缆，然后重新通电设备。
- 8 对于要升级的每个固件文件，重复步骤2至7。

故障排除

问题	补救措施
未出现“STM器械处于DFU模式”提示。	1 检查C:\Program Files (x86)\Adder Technology\Firmware Upgrade Tool\Drive\X86下的驱动安装 2 安装驱动程序：STube30.sys手动。 3 “STM设备处于DFU模式”现在应在设备管理器的串行总线控制器下报告。
系统升级未完成。	1 断开USB A到A线缆。 2 给设备通电，同时按住前面板上的通道1和通道4按钮。 3 该装置将进入升级模式，此时前面板上显示“升级”消息。 4 重复步骤#4中的升级过程。
视频FPGA升级未完成。	1 断开USB A到A线缆。 2 输入热键左Ctrl右Ctrl Ins 2。 3 该装置将进入升级模式，此时前面板上将显示“升级”消息。 4 重复步骤#4中的升级过程。
FW无法正确启动。错误代码0xC000007B或“mfc140.dll missing”消息。	下载并安装 Microsoft Visual C++ Redistributable 2015-2019 (x86)，可从以下地址找到：https://docs.microsoft.com/en-us/cpp/windows/latest-supported-vc-redist?view=msvc-170

The multi-viewer switch allows the user to view the video outputs of up to four host computers simultaneously, either on a single display or dual displays. Keyboard and mouse control is assigned to a single host computer at a time and is switchable using a number of methods (see page 22).



Audio Hold

The Audio Hold button prevents switching the audio port when changing the other console peripherals (keyboard, mouse, video) to another computer channel. This function is useful when you need to listen to the audio from one computer while working on another.

Using the front panel computer channel buttons, first connect the console peripherals to the computer from where the audio feed is required. Press the Audio Hold button on the front panel. Then press the channel button for the computer that is required for the other peripherals. The audio association will be signalled by the right indicator on each channel's front panel push button.

To release the audio from hold status, press the Audio Hold button again.

Status display

The status display shows the current channel number; the channel from which audio is being derived and also the remote control unit status.



DISPLAYING WINDOWS

You can choose how to view the windows of the various host computers.

Full screen

Shows a single window on the whole screen.

- On the keyboard, press and release: **L Ctrl | L Ctrl | f**

Note: This means press and release the following keys:

Left Ctrl then Left Ctrl then f

For dual displays, it applies to the screen with cursor focus.



Tile (quadrant) layout

Shows four windows on the display in a quadrant.

- On the keyboard, press and release: **L Ctrl | L Ctrl | q**



Focus layout

One window is shown at a larger size with the other windows scaled down and located on the right-hand side of the screen.

- Press: **L Ctrl | L Ctrl | s**

Select System mode and then rotate the mouse thumbwheel to move the focus between the windows. If thumbwheel switching is disabled (see USB Settings page 14), then either select focus channel from front panel or window within System mode.



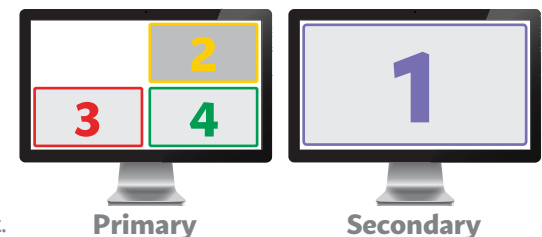
Custom layouts

If custom layouts have been saved (see page 23), you can select one as follows:

- Press: **L Ctrl | L Ctrl | F#** (where F# is the required function key: F1 to F8)

Dual displays

When dual displays are used in Extend Display Mode (page 12), the secondary display will remain blank until you drag a window on it or select a preset layout that uses it. The Focus layout is recommended for dual displays, as per the diagram to the right.



多监视器切换器允许用户同时查看最多四台主机的视频输出，可以是在一个显示器上或在两个显示器上。键盘和鼠标控制一次指定给一台主机，并且可以通过多种方法进行切换（请参阅第22页）。



音频保持

音频保持按钮可防止在将其他控制台外围设备（键盘、鼠标、视频）切换到另一个计算机通道时切换音频端口。当您需要在另一台计算机上工作时收听来自一台计算机的音频，此功能很有用。

使用前面板计算机通道按钮，首先将控制台外围设备连接到需要音频馈送的计算机。按下前面板上的音频保持按钮。然后按下其他外围设备所需计算机的通道按钮。音频关联将通过每个通道前面板按钮右侧的指示灯显示。

要从保持状态释放音频，请再次按下“音频保持”按钮。

状态显示

状态显示会显示当前频道号、正在获取音频的频道以及遥控器状态。



显示器窗口

您可以选择如何查看各个主机的窗口。

全屏

在整个屏幕上显示单个窗口。

- 在键盘上，按住并释放：*L Ctrl | L Ctrl | f*

注意：这意味着按住并释放以下按键：**左Ctrl** 然后 **左Ctrl** 然后 **f**
对于双显示器，它适用于带有光标焦点的屏幕。

瓷砖（象限）布局

在显示屏上以象限形式显示四个窗口。

- 在键盘上，按住并释放：*L Ctrl | L Ctrl | q*

焦点布局

一个窗口以更大的尺寸显示，而其他窗口缩小并位于屏幕

的右侧。•按下*L Ctrl | L Ctrl | s*

选择系统模式，然后旋转鼠标拇指轮以在窗口之间移动焦点。如果禁用拇指轮切换（参见USB设置第14页），则可以在系统模式下从前面板或窗口中选择焦点通道。

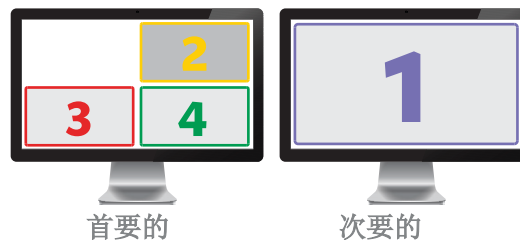
自定义版式

如果已保存自定义布局（请参阅第23页），则可以按如下方式选择一个：

- Press: *L Ctrl | L Ctrl | F#*（其中F#是所需的功能键：F1至F8）

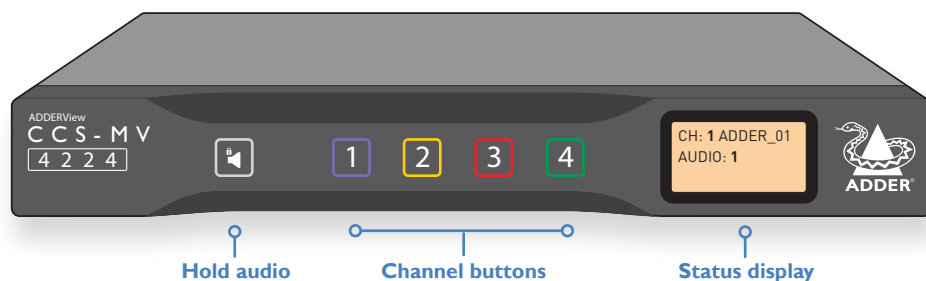
双显示器

在扩展显示模式下使用双显示器时（第12页），辅助显示器将保持空白，直到您上面拖动一个窗口或选择使用它的预置布局。如右侧的示意图所示，建议双显示器使用焦点布局。

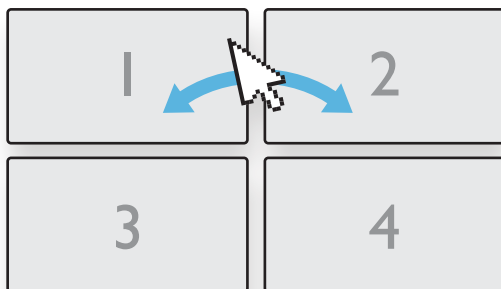


SWITCHING BETWEEN CHANNELS

- Press the required channel button on the front panel:



- In any of the multi-view layouts, simply move the mouse cursor across the boundaries of the display windows*.



*The mouse method relies on absolute mouse mode, which can be enabled and disabled by the user to match their own preferences and to ensure compatibility with their computers.

To use absolute mouse mode, press: `L Ctrl | L Ctrl | F11 | c`

To use relative mouse mode, press: `L Ctrl | L Ctrl | F11 | b`

In Relative mouse mode, channel switching is restricted to either the front panel buttons or the scrolling the mouse thumbwheel.

MANAGING WINDOWS

In everyday use, the multi-viewer switch has two main modes of operation:

- User mode** - this is the normal mode of operation, where the switch is essentially transparent. This means that your commands pass straight through to interact with the host PC(s), as if you were directly connected to them.
- System mode** - in this mode, your link with the PC(s) is temporarily suspended and instead you interact directly with the switch. This allows you to perform certain tasks, such as resizing windows and arranging preset layouts.

It is quick and easy to change between the two modes, as follows.

Entering and exiting system mode

To enter system mode

- On the keyboard, press and release the following: **Left Ctrl** then **Left Ctrl** then **o**
Note: In the pages that follow, such sequences are shown in the form: `L Ctrl | L Ctrl | o`
or

- On the mouse, either click the scroll wheel, or for a five-button mouse, select either of the side buttons. *Note: The mouse must be set to use Absolute Mode (see page 14).*

Within system mode you will see a large blue cursor; in this mode keyboard strokes and mouse movements are not transmitted to the computers, but instead are interpreted within the multi-viewer switch.

To return to user mode

- Press `L Ctrl | L Ctrl | u` to return to user mode.
or
- On the mouse, either click the scroll wheel, or for a five-button mouse, select either of the side buttons.

Taking control of a window

- In a multi-window layout, enter System Mode, as described above.
- Move the large blue cursor to the window that you wish to take control.
- Now, either:
 - Take control of the chosen window at the current size: Click the scroll wheel.or
 - Maximise and take control of the chosen window: Slowly double click the left mouse button.

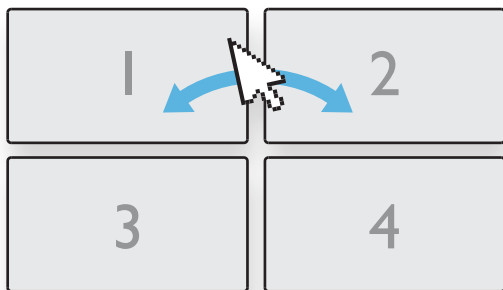
In either case, you will revert to user mode with control of the selected computer.

频道切换

- 按下前面板上的所需通道按钮：



- 在任何多视图布局中，只需将鼠标光标移动到显示窗口*的边界上即可。



*鼠标方法依赖于绝对鼠标模式，用户可以启用和禁用它，以匹配自己的偏好，并确保与计算机的兼容性。

要使用鼠标绝对模式，请按：`L Ctrl | L Ctrl | F11 | c`

要使用相对鼠标模式，请按：`L Ctrl | L Ctrl | F11 | b`

在相对鼠标模式下，通道切换仅限于前面板按钮或滚动鼠标拇指轮。

管理窗口

在日常使用中，多视图切换器有两种主要操作模式：

- 用户模式**——这是正常的工作模式，在此模式下交换机基本上是透明的。这意味着您的命令将直接传递以与主机(s)交互，就像您直接连接到它们一样。
- 系统模式**：在此模式下，您与电脑的连接暂时中止，转而直接与交换机交互。

这允许您执行某些任务，例如调整窗口大小和排列预置布局。

在两种模式之间切换非常快捷方便，如下所示。

进入和退出系统模式

进入系统模式

- 在键盘上，按住并释放以下按键：**左Ctrl**，然后**o**

注意：在以下页面中，此类序列以如下形式显示：`L Ctrl | L Ctrl | o`或

- 在鼠标上，单击滚动轮，或者对于五键鼠标，选择任意一个侧键。注意：必须将鼠标设置为使用绝对模式（请参阅第14页）。

在系统模式下，您将看到一个大的蓝色光标；在此模式下，键盘击键和鼠标移动不会传输到计算机，而是在多查看器开关中解释。

返回用户模式

- 按`L Ctrl | L Ctrl | u`可返回到用户模式。

或

- 在鼠标上，单击滚动轮，或者对于五键鼠标，选择任意一个侧边按钮。

控制窗口

- 1 在多窗口布局中，输入系统模式，如上所述。
- 2 将蓝色大光标移动到要控制的窗口。
- 3 现在，要么：

- 以当前大小控制所选窗口：单击滚动轮。或
- 最大化并控制所选窗口：缓慢双击鼠标左键。

无论哪种情况，您都将恢复到用户模式，并控制所选计算机。

Custom Preset Layouts

In system mode, the mouse cursor is also responsible for re-sizing and moving windows around within the display canvas. It is advisable to begin with one of the predefined layouts and adjust it to suit your requirements. These layouts can be selected before or after entering system mode:

- For **tile layout**, use the hotkey combination: `L Ctrl | L Ctrl | q`
- For **focus layout**, use the hotkey combination: `L Ctrl | L Ctrl | s`
- For a **custom layout**, use the hotkey combination: `L Ctrl | L Ctrl | F#`
(where *F#* is the required function key: *F1* to *F8*)

Manipulate the windows to the desired sizes and locations, then apply the new layout to a function key: `L Ctrl | L Ctrl | F1 | Ins | F#`
(where *F#* is the required function key: *F1* to *F8*).

Once you have exited system mode, you will be able to switch between the predefined tile and focus layouts as well as recall your own custom presets.

Resizing and moving windows

There are a number of options available when resizing windows, including the options to retain the aspect ratio or select only a partial element of the computer's display.

To use autoscaling

The autoscaling feature allows selected windows to fill the screen, either respecting or overriding the aspect ratio, depending on the selected option. Autoscaling can be enabled either through the OSD menu or by using the following hotkey combinations:

- To enable autoscaling with aspect ratio maintained: `L Ctrl | L Ctrl | F1 | w | w`
- To enable autoscaling without aspect ratio being maintained: `L Ctrl | L Ctrl | F1 | w | y`
- To disable autoscaling: `L Ctrl | L Ctrl | F1 | w | n`

With your preferred scaling option selected, windows can now be manipulated using the blue mouse cursor.

To move a window

Locate the blue mouse cursor anywhere within the window. Press and hold the left mouse button and drag the window to your desired location. Release the left mouse button.

To resize a window

Place the blue mouse cursor anywhere within the required window. Press and hold the right mouse button and drag to resize the window up or down accordingly. Release the right mouse key when the window is at the desired size.

Depending on the current autoscaling setting, the video will (or won't) adjust in size and/or aspect ratio.

自定义预置版式

在系统模式下，鼠标光标还负责调整窗口大小并在显示画布中移动窗口。建议从一个预定义的布局开始，并根据需要进行调整。可以在进入系统模式之前或之后选择这些布局：

- 要进行**瓦片布局**，请使用以下热键组合：`L Ctrl | L Ctrl | q`
- 要执行**“聚焦布局”**，请使用`L Ctrl | L Ctrl | s`这个热键组合。
- 对于**自定义布局**，使用热键组合：`L Ctrl | L Ctrl | F#`（其中F#是所需功能键：F1到F8）

将窗口调整到所需大小和位置，然后应用新布局

功能键：`L Ctrl | L Ctrl | F11 | Ins | F#`

（其中F#是所需的函数键：F1到F8）。

一旦退出系统模式，您将能够在预定义的平铺和焦点布局之间切换，并调用自己的自定义预设。

调整窗口大小和移动窗口

在调整窗口大小时，有多个选项可供选择，其中包括保留纵横比的选项或仅选择计算机显示器的某个部分元素。

使用自动扩展

自动缩放功能允许选定窗口填满屏幕，根据所选选项，可以保持或覆盖纵横比。

可以通过OSD菜单或使用以下快捷键组合来启用自动缩放：

- 要启用保持纵横比的自动缩放功能：`按住L Ctrl键|按住L Ctrl键| F11 | w | w`
- 要使自动缩放不保持纵横比，请执行以下操作：`L Ctrl | L Ctrl | F11 | w | y`
- 要禁用自动扩展：`按住Ctrl键|按住Ctrl键| F11 | w | n`

选择您喜欢的缩放选项后，现在可以使用蓝色鼠标光标来操作窗口。

移动窗口

将蓝色鼠标光标定位在窗口内的任意位置。按住鼠标左键并拖动窗口到所需位置。松开鼠标左键。

调整窗口大小

将蓝色鼠标光标放在所需窗口内的任意位置。按住鼠标右键并拖动，相应地调整窗口的大小。在窗口达到所需大小时松开鼠标右键。

根据当前的自动缩放设置，视频将（或不会）调整大小和/或宽高比。

USING COPY & PASTE

The optional Copy & Paste function allows you to copy text and files from one host PC to another.

There are two ways to use the Copy & Paste function:

Mode 1: *Using the internal COM Device* - used for transferring only text, up to 1,000 characters and requires no external storage device.

Mode 2: *Using an external USB Device* - can transfer files as well as text.

Initial configuration

To use the Copy & Paste function, you will first need to download and install a small driver file onto all computers that are required to use the function. You will also need to choose which mode you wish to use. Please see **page 18** for details.

Using the COM Device mode

Allows you to Copy & Paste up to 1,000 plain text characters using the switch's memory for storage. It is designed to support the quick transfer of short text information between sources, such as telephone numbers, emails, web links, etc.

To use the COM Device mode

- 1 On the source computer, highlight the text (up to 1,000 characters) and perform a standard copy function using the mouse or keyboard. The copied text is stored within the switch's local memory.
- 2 Switch to the target computer and perform a standard paste function to the desired location. The text is copied as plain text, with no formatting parameters.

Note: A small pop-up window on the taskbar provides status updates once text is copied or available for paste on a specific computer. The last copied data will remain stored in memory, until any other copy function is performed. This allows you to paste the same text on several computers.

Using the USB Device Mode

The USB Device mode uses an external USB storage device to store copied data and allows you to copy & paste both text and files from one computer to another (up to 999Mb). It is designed to support large text and file copying between sources.

To use the USB Device mode

- 1 On the source computer, highlight the desired text or choose a file and perform a standard copy function using the mouse or keyboard. The copied data is stored on the external USB storage device.
- 2 Switch to the target computer and perform a standard paste function via the mouse or keyboard to the desired location.

The last copied data will be retained within the USB storage device (until such time as it is replaced by another copy action) so that you can paste pasting the same data on several computers.

Note: When moving to a specific computer, the "USB External Storage Auto-run" pop-up message will appear. It is possible to disable this in the configuration options.

使用复制和粘贴

可选的“复制和粘贴”功能允许您将文本和文件从一个主机复制到另一个主机。

使用“复制和粘贴”功能有两种方式：

模式1：使用内部COM设备，仅用于传输文本，最多1000个字符，不需要外部存储设备。

模式2：使用外部USB设备 - 可以传输文件以及文本。

初始配置

要使用复制和粘贴功能，首先需要下载并安装一个小型驱动程序文件到所有需要使用该功能的计算机上。您还需要选择要使用的模式。有关详细信息，请参阅第18页。

使用COM设备模式

允许您使用交换机的内存来复制和粘贴多达1,000个纯文本字符。它旨在支持在源之间快速传输短文本信息，如电话号码、电子邮件、网页链接等。

使用COM设备模式

- 1 在源计算机上，突出显示文本（最多1,000个字符），然后使用鼠标或键盘执行标准复制功能。复制的文本存储在交换机的本地内存中。
- 2 切换到目标计算机，执行标准的粘贴功能到所需位置。文本以纯文本形式复制，不带任何格式参数。
注意：在任务栏上的小弹出窗口会在特定计算机上复制或可粘贴文本后提供状态更新。最后复制的数据将一直保存在内存中，直到执行其他复制功能为止。这样，您就可以在多台计算机上粘贴相同的文本。

使用USB设备模式

USB设备模式使用外部USB存储设备来存储复制的数据，并允许您从一台计算机到另一台计算机进行文本和文件的复制和粘贴（最多999Mb）。该模式的设计目的是支持源之间的大文本和文件复制。

使用USB设备模式

- 1 在源计算机上，高亮显示所需文本或选择一个文件，并使用鼠标或键盘执行标准的复制功能。复制的数据存储在外部USB存储设备上。
- 2 切换到目标计算机，通过鼠标或键盘执行标准的粘贴功能到所需位置。

最后复制的数据将保留在USB存储设备中（直到被另一个复制操作替换为止），以便您可以在多台计算机上粘贴相同的数据。
注意：当移动到特定计算机时，将出现“USB外部存储器自动运行”弹出消息。可以在配置选项中禁用此功能。

Further information



This chapter contains a variety of information, including the following:

- Getting assistance - see right
- [Appendix A](#) - Hotkey commands
- [Appendix B](#) - Open Source Licenses

GETTING ASSISTANCE

If you are still experiencing problems after checking the information contained within this guide, then please refer to the Support section of our website:

www.adder.com

INSTALLATION

CONFIGURATION

OPERATION

FURTHER
INFORMATION

INDEX

进一步资料

本章包含多种信息，包括以下内容：

- 获得援助-见右
- 附录A -快捷键命令
- 附录B—开源许可证

获取帮助

如果检查本指南中的信息后，您仍然遇到问题，请访问我们的网站，查看“支持”部分：

www.adder.com



安装

配置

业务

更多信息

索引

APPENDIX A - Hotkey commands

This section provides a summary of hotkey commands used on the multi-viewer switch.

Note: The hotkeys assume the use of a US keyboard.

To invoke the OSD

Press and release **Left Ctrl** then **Right Ctrl** then **o**

To invoke the System Controller upgrade mode

Press and release: **Left Ctrl** then **Right Ctrl** then **INS I**

WARNING: Reboot required to exit if accidentally invoked.

To invoke the video FPGA upgrade mode

Press and release: **Left Ctrl** then **Right Ctrl** then **INS 2**

WARNING: Reboot required to exit if accidentally invoked.

Other commands

Press and release: **Left Ctrl** then **Left Ctrl** then:

System mode	o
User mode	u
Maximize window to full-screen	f
Tile window layout (quad view)	q
Focus window layout	s
Increase window scaling	+ (see note below)
Reduce window scaling	– (see note below)
Set output display resolution	F11 d# (where # is 1 to 8)
• 1 = 2048 x 2048	
• 2 = 2560 x 1440	
• 3 = 2560 x 1600	
• 4 = 1920 x 1080	
• 5 = 1920 x 1200	
• 6 = 3840 x 1080	
• 7 = 3440 x 1440	
• 8 = 3840 x 2160	

Unpin all windows	F11 f r
PiP mode enable	F11 INS p
Load presets 1..8	F1..F8
Save preset 1..8	F11 INS F1..F8
Relative mouse mode	F11 b
Absolute mouse mode	F11 c
Presentation mode off	F11 n
Presentation mode on	F11 p
Reset to factory defaults (Warning: no confirmation asked)	F11 r
Enable autoscaling with aspect ratio maintained	F11 w w
Enable autoscaling without aspect ratio maintained	F11 w y
Disable autoscaling	F11 w n
Increase mouse speed*	F11 + (see note below)
Reduce mouse speed*	F11 – (see note below)

**These settings only affect the mouse speed of absolute mouse mode, not relative.*

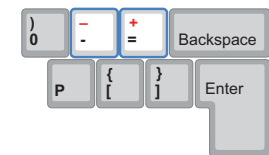
Move and resize window **F11 End <Channel> <Operation> <Percent>**

Refer to the API Manual (MAN-000022) for further details, including how to move and resize windows based on fixed screen percentages.

Show/Hide channel from the canvas **LCtrl LCtrl F11 Ins 0** then 1..4 for the port number

Using + and – hotkeys

The + and – keys located on the keypad section (on the right side) of your keyboard are NOT supported for use as hotkeys. For hotkey functions such as window scaling and mouse speed adjustment, use only the + and – keys that are located in the main keyboard section, just to the left of the backspace key. Note also that on non-QWERTY (US/UK) keyboards, these two keys may not be labeled as + and – however, their functions as + and – hokeys remain valid.



附录A - Hotkey命令

本节提供了多查看器切换上使用的热键命令的摘要。*注意：热键假设使用的是美国键盘。*

调用OSD

按并释放**左Ctrl**，然后**右Ctrl**，然后 **o**

调用系统控制器升级模式

按并释放：**左Ctrl**，然后**右Ctrl**，然后 **INS 1**

警告：如果意外调用，则需要重新启动才能退出。

调用视频FPGA升级模式

按并释放：**左Ctrl**，然后**右Ctrl**，然后 **INS 2**

警告：如果意外调用，则需要重新启动才能退出。

其他命令

按并释放：**左Ctrl**键，然后**左Ctrl**键：

系统模式用户

模式

将窗口最大化为全屏磁贴窗

口布局（四边形视图）聚焦

窗口布局增大窗口缩放减小

窗口缩放设置输出显示分辨

率

- 1 = 2048 x 2048
- 2 = 2560 x 1440
- 3 = 2560 x 1600
- 4 = 1920 x 1080
- 5 = 1920 x 1200
- 6 = 3840 x 1080
- 7 = 3440 x 1440
- 8 = 3840 x 2160

o

uf

q

s

+（见下方注释）

-（请参见下方注释）F11

d#（其中#为1至8）

取消固定所有窗口

画中画模式启用

加载预设1..8

保存预设1..8

相对鼠标模式

绝对小鼠模式

演示模式已关闭

演示模式已开启

重置为出厂默认值（警告：不询问确认）F11 r

启用保持纵横比的自动扩展

启用自动扩展，但不保持纵横比

禁用自动扩展

提高鼠标速度*

降低鼠标速度*

**这些设置只影响绝对鼠标模式下的鼠标速度，而不影响相对模式。*

移动窗口并调整其大小

有关更多详细信息，请参阅API手册（MAN-000022），其中包括如何根据固定

屏幕百分比移动和调整窗口大小。

在画布中显示/隐藏通道LCtrl LCtrl F11 Ins 0然后输入1..4作为端口号

F11 fr

F11 INS p

FI..F8

F11 INS FI..F8

F11 b

F11 c

F11 n

F11 p

F11 ww

F11 wy

F11 wn

F11+（见下方注释）

F11-（见下方注释）

F11结束<Channel> <Operation> <Percent>

使用+和-热键

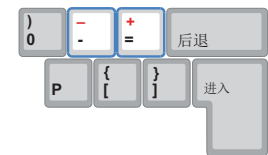
键盘右侧的+和-键不可用作热键。若需使用窗口缩放、

鼠标速度调节等热键功能，请仅使用位于主键盘区域

（退格键左侧）的+和-键。请注意，在非QWERTY键盘

（美式/英式）上，这两个按键可能未标注为+和-，但

其作为热键的功能仍然有效。



APPENDIX B – OPEN SOURCE LICENSES

This product includes binaries that are derived from the open source community.

STMicroelectronics SLA0048 - Rev 4 (March 2018)

Under STMicroelectronics' intellectual property rights and subject to applicable licensing terms for any third-party software incorporated in this software package and applicable Open Source Terms (as defined here below), the redistribution, reproduction and use in source and binary forms of the software package or any part thereof, with or without modification, are permitted provided that the following conditions are met:

- 1 Redistribution of source code (modified or not) must retain any copyright notice, this list of conditions and the following disclaimer.
- 2 Redistributions in binary form, except as embedded into microcontroller or microprocessor device manufactured by or for STMicroelectronics or a software update for such device, must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- 3 Neither the name of STMicroelectronics nor the names of other contributors to this software package may be used to endorse or promote products derived from this software package or part thereof without specific written permission.
- 4 This software package or any part thereof, including modifications and/or derivative works of this software package, must be used and execute solely and exclusively on or in combination with a microcontroller or a microprocessor devices manufactured by or for STMicroelectronics.
- 5 No use, reproduction or redistribution of this software package partially or totally may be done in any manner that would subject this software package to any Open Source Terms (as defined below).
- 6 Some portion of the software package may contain software subject to Open Source Terms (as defined below) applicable for each such portion ("Open Source Software"), as further specified in the software package. Such Open Source Software is supplied under the applicable Open Source Terms and is not subject to the terms and conditions of license hereunder.
"Open Source Terms" shall mean any open source license which requires as part of distribution of software that the source code of such software is distributed therewith or otherwise made available, or open source license that substantially complies with the Open Source definition specified at www.opensource.org and any other comparable open source license such as for example GNU General Public License (GPL), Eclipse Public License (EPL), Apache Software License, BSD license and MIT license.
- 7 This software package may also include third party software as expressly specified in the software package subject to specific license terms from such third parties. Such third party software is supplied under such specific license terms and is not subject to the terms and conditions of license hereunder. By installing copying, downloading, accessing or otherwise using this software package, the recipient agrees to be bound

by such license terms with regard to such third party software.

- 8 STMicroelectronics has no obligation to provide any maintenance, support or updates for the software package.
- 9 The software package is and will remain the exclusive property of STMicroelectronics and its licensors. The recipient will not take any action that jeopardizes STMicroelectronics and its licensors' proprietary rights or acquire any rights in the software package, except the limited rights specified hereunder.
- 10 The recipient shall comply with all applicable laws and regulations affecting the use of the software package or any part thereof including any applicable export control law or regulation.
- 11 Redistribution and use of this software package partially or any part thereof other than as permitted under this license is void and will automatically terminate your rights under this license.

THIS SOFTWARE PACKAGE IS PROVIDED BY STMICROELECTRONICS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS, IMPLIED OR STATUTORY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS ARE DISCLAIMED TO THE FULLEST EXTENT PERMITTED BY LAW. IN NO EVENT SHALL STMICROELECTRONICS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE PACKAGE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

EXCEPT AS EXPRESSLY PERMITTED HEREUNDER AND SUBJECT TO THE APPLICABLE LICENSING TERMS FOR ANY THIRD-PARTY SOFTWARE INCORPORATED IN THE SOFTWARE PACKAGE AND OPEN SOURCE TERMS AS APPLICABLE, NO LICENSE OR OTHER RIGHTS, WHETHER EXPRESS OR IMPLIED, ARE GRANTED UNDER ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHTS OF STMICROELECTRONICS OR ANY THIRD PARTY.



附录B——开源许可证

本产品包含从开源社区派生的二进制文件。

STMicroelectronics SLA0048 - Rev 4（2018年3月）

在符合以下条件的情况下，才允许重新分发、复制和使用软件包或其任何部分的

源代码和二进制形式，无论是否修改，前提是符合以下条件：

- 1 重新分发源代码（修改或未修改）必须保留任何版权声明、此条件列表和以下免责声明。
- 2 除嵌入由意法半导体制造或为其制造的微控制器或微处理器设备，或针对此类设备的软件更新外，以二进制形式重新分发的文件必须在随附的文档和 / 或材料中复制上述版权声明、本条件列表和以下免责声明。
- 3 未经书面许可，不得使用“意法半导体”或本软件包其他贡献者的名称来认可或推广基于本软件包或其部分开发的产品。
- 4 本软件包或其任何部分，包括本软件包的修改和 / 或衍生作品，必须仅且专用于在或与意法半导体制造的或为其制造的微控制器或微处理器设备结合使用。
- 5 不得以任何方式部分或全部使用、复制或重新分发本软件包，否则将使本软件包受任何开源条款（定义如下）约束。
- 6 软件包的某些部分可能包含适用的开源条款（定义如下）的软件（下称“开源软件”），具体说明见软件包。此类开源软件是根据适用的开源条款提供的，不受本协议项下许可条款和条件的约束。

“开源条款”指要求将软件的源代码作为其分发的一部分或以其他方式提供，或实质上符合

指定的www.opensource.org开源定义以及任何其他类似开源许可证，例如：

GNU通用公共许可证（GPL）、Eclipse公共许可证（EPL）、Apache软件许可证、BSD许可证和MIT许可证。

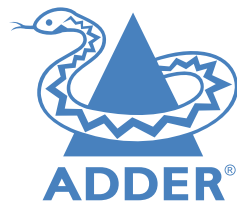
- 7 本软件包可能包含第三方软件，具体条款以第三方提供的许可协议为准。此类第三方软件的授权仅基于相关协议，与本协议中的许可条款无关。用户通过安装、复制、下载、访问或以其他方式使用本软件包，即视为同意接受相关约束。

通过此类许可条款与第三方软件相关。

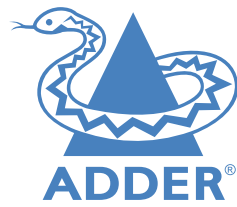
- 8 意法半导体无义务为软件包提供任何维护、支持或更新。
- 9 本软件包是并且将继续是意法半导体及其许可方的专有财产。除本协议中规定的有限权利外，接收方不得采取任何损害意法半导体及其许可方的专有权利或获得本软件包的任何权利的行动。
- 10 受领人应遵守影响软件包或其任何部分使用的全部适用法律和法规，包括任何适用的出口管制法律或法规。
- 11 除本许可证所允许的以外，对本软件包或其任何部分的重新分发和使用都是无效的，并将自动终止您在本许可证下的权利。

本软件包由意法半导体及其贡献者以“现状”形式提供，所有明示、暗示或法定担保（包括但不限于适销性、特定用途适用性和第三方知识产权不侵权等默示担保）均在法律允许的最大范围内予以免除。无论何种情形，意法半导体及其贡献者均不承担任何直接、间接、附带、特殊或后果性损害赔偿责任（包括但不限于采购替代商品或服务、使用损失、数据丢失、利润损失或业务中断），无论损害原因如何，也不论基于合同责任、严格责任或侵权责任（包括过失或其他情形）的任何理论主张，即使已知悉此类损害的可能性亦不例外。

除本协议明确允许的、并受软件包中包含的任何第三方软件适用许可条款和适用开源条款约束之外，对于意法半导体或任何第三方的任何专利或其他知识产权，均不授予任何明示或暗示的许可或其他权利。



www.adder.com



www.adder.com

文件编制人:



www.ctxd.com

©2024 Adder Technology Limited 所有
商标均被认可。部件号MAN-000009•
版本1.4

A

- Advanced Settings 16
- Audio Hold 21
- Audio Settings 15
- Autoscaling 23

C

- Channel button
 - colors 11
- Channel name 11
- Channels
 - switching between 22
- Channel Settings 13
- Colors
 - button indicators 11
- Connections 6
 - computer 7
 - console 8,9
 - overview 6
 - power 9
 - remote control unit 9
- Copy & Paste
 - configuring 18
 - using 24

D

- Displays
 - initial setup 10

F

- Focus layout 21

H

- Hotkeys 26

O

- On Screen Display (OSD) 11

P

- Ports 6
- Power in 9
- Preset layouts 23

Q

- Quadrant. *See* Tile layout

S

- Settings
 - audio 15
 - channel 13
 - USB 14
 - video 12
- Software upgrade 20
- Speakers 8
- Specifications 3

T

- Technical specifications 3
- Tile layout 21

U

- Upgrade 20
- USB Settings 14

V

- Video Settings 12

W

- Window configurations 21
- Windows
 - managing 22
 - resizing and moving 23

A

高级设置 16 音频保持 21 音频设置 15 自动缩放 23

C

频道按钮颜色 11
频道名称 11
频道 在 22 通道设置之间切换 13 颜色
按钮指示器 11 接口 6
计算机 7
控制台 8, 9 概述 6
功率 9
遥控器 9
18 使用复制和粘贴 进行配置 24

D

显示 初始设置 10

F

焦点布局 21

H

热键 26

O

在屏幕上显示 (OSD) 11

P

端口 6
电源 9
预置版式 23

Q

象限。请参见 瓦片布局

S

设置音频 15
频道 13
USB 14
视频 12

软件升级 20 演讲者 8

规格说明 3

T

技术规格版面布局 21 3

U

升级 20
USB 设置 14

V

视频设置 12

W

窗口配置 21
窗口 管理 22
调整和移动 23