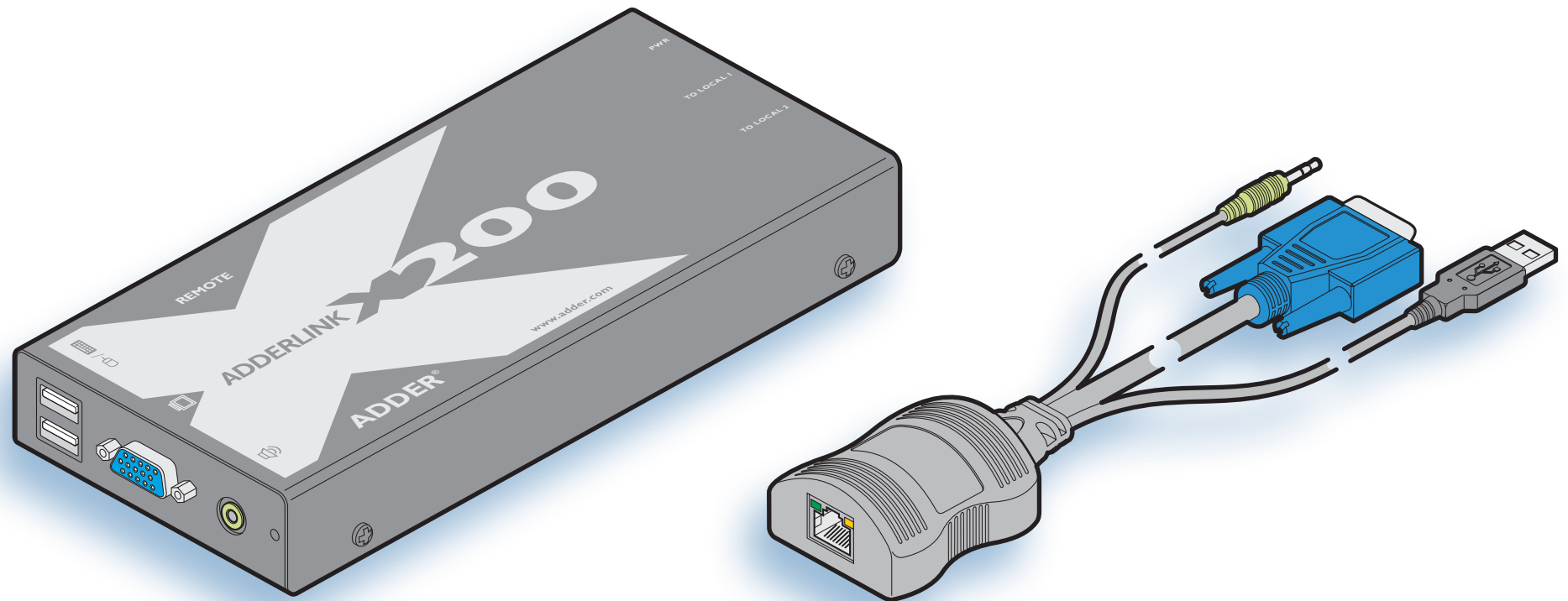


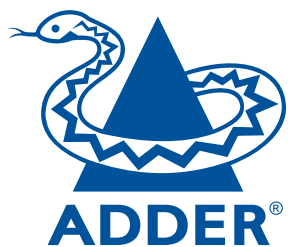


Adder X200 Extender

User Guide

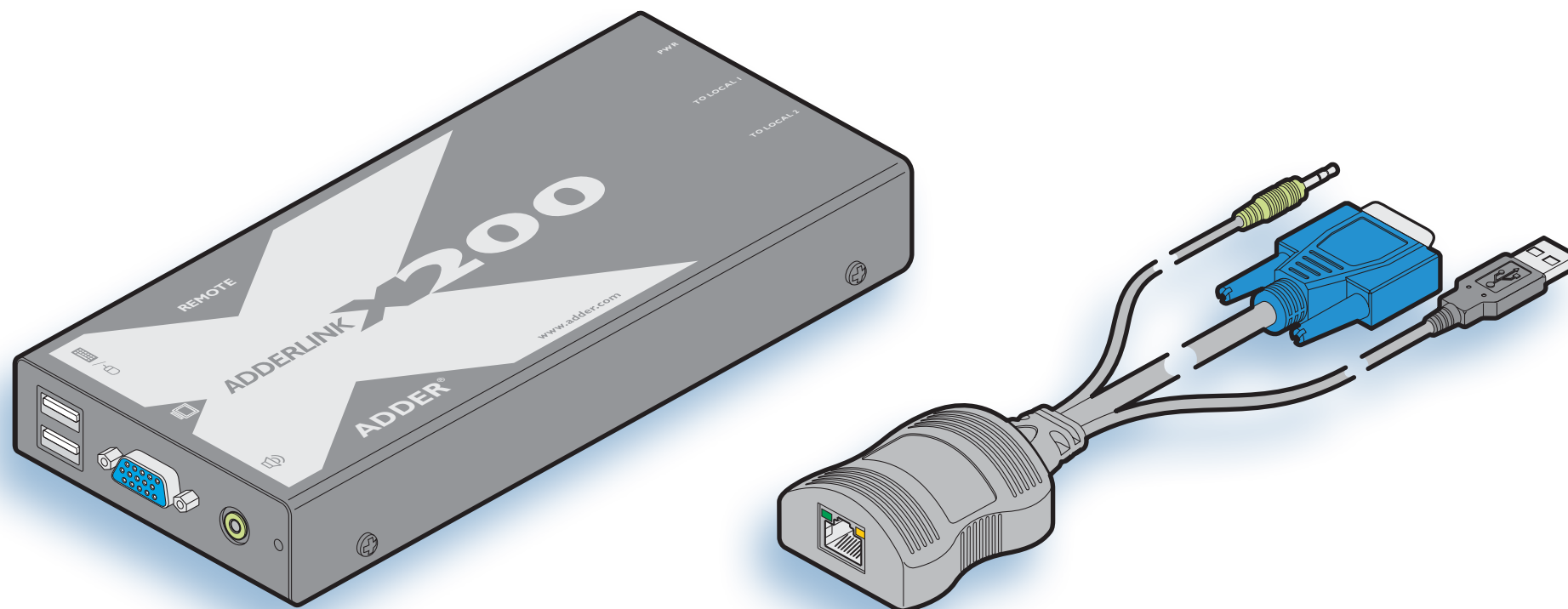


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Adder X200扩展器

用户指南



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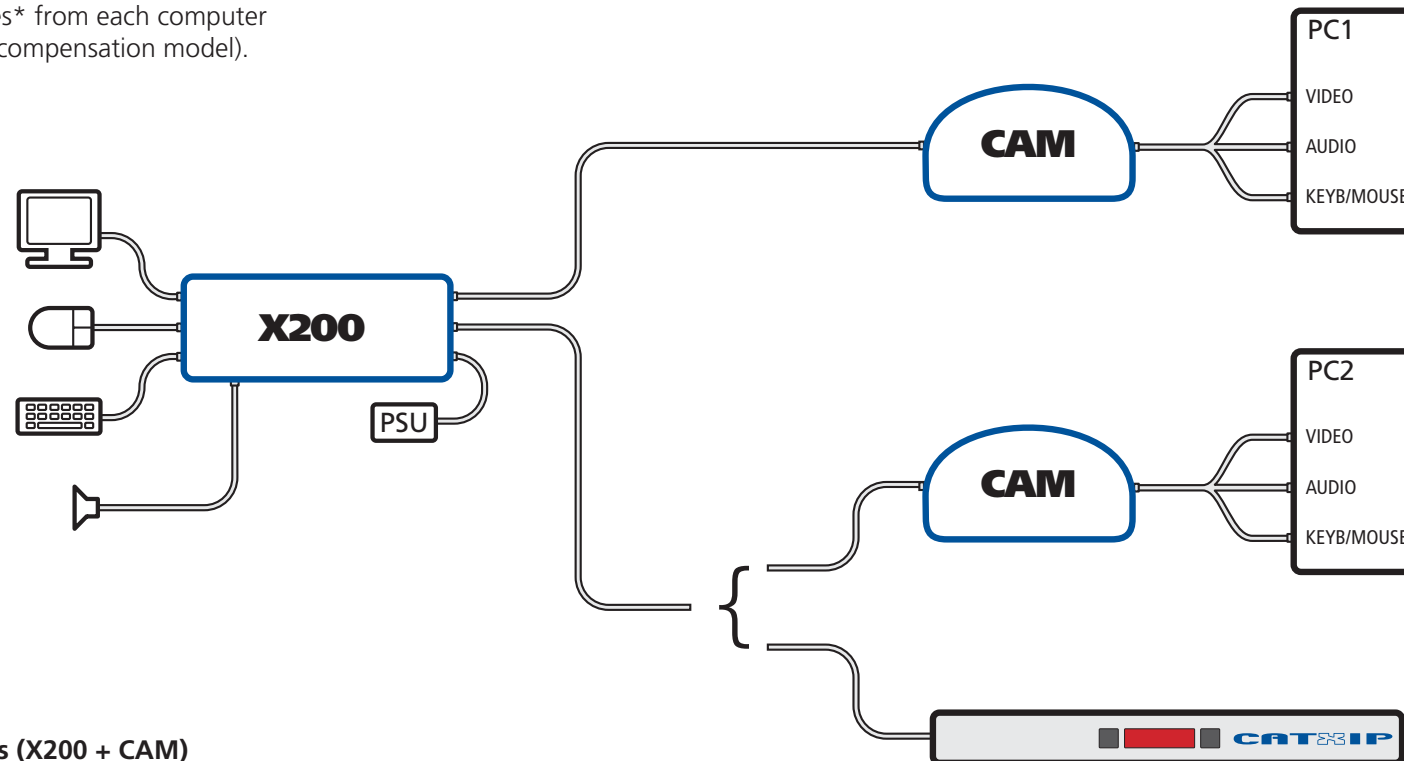


Introduction

Thank you for choosing the Adder X200 extender set. These compact modules allow you to remotely control up to two computer systems from a common keyboard, video monitor, mouse and speaker set. The controlling peripherals can be situated up to 200 metres* from each computer system (* X200AS skew compensation model).

Peripheral connections to each computer system are handled by Computer Access Modules (or CAMs). The long distance link between the CAMs and the common X200 module is made via Category 5, 5e or 6 twisted pair cabling.

Special circuitry within the remote module allows you to make adjustments to the sharpness and brightness settings to suit your own preferences.



X200 model range

Extender pair packages (X200 + CAM)

X200-USB/P	100m extender pair, USB CAM, no audio, no de-skew
X200A-USB/P	100m extender pair, USB CAM, audio, no de-skew
X200AS-USB/P	200m extender pair, USB CAM, audio and de-skew

X200 receivers only (for use with CATx switches etc.)

X200 /R	100m receiver, no audio, no de-skew
X200A /R	100m receiver, audio, no de-skew
X200AS /R	200m receiver, audio and de-skew

X200 modules can be used to connect to individual computer systems via CAMs or to many computers via AdderView CATx switches

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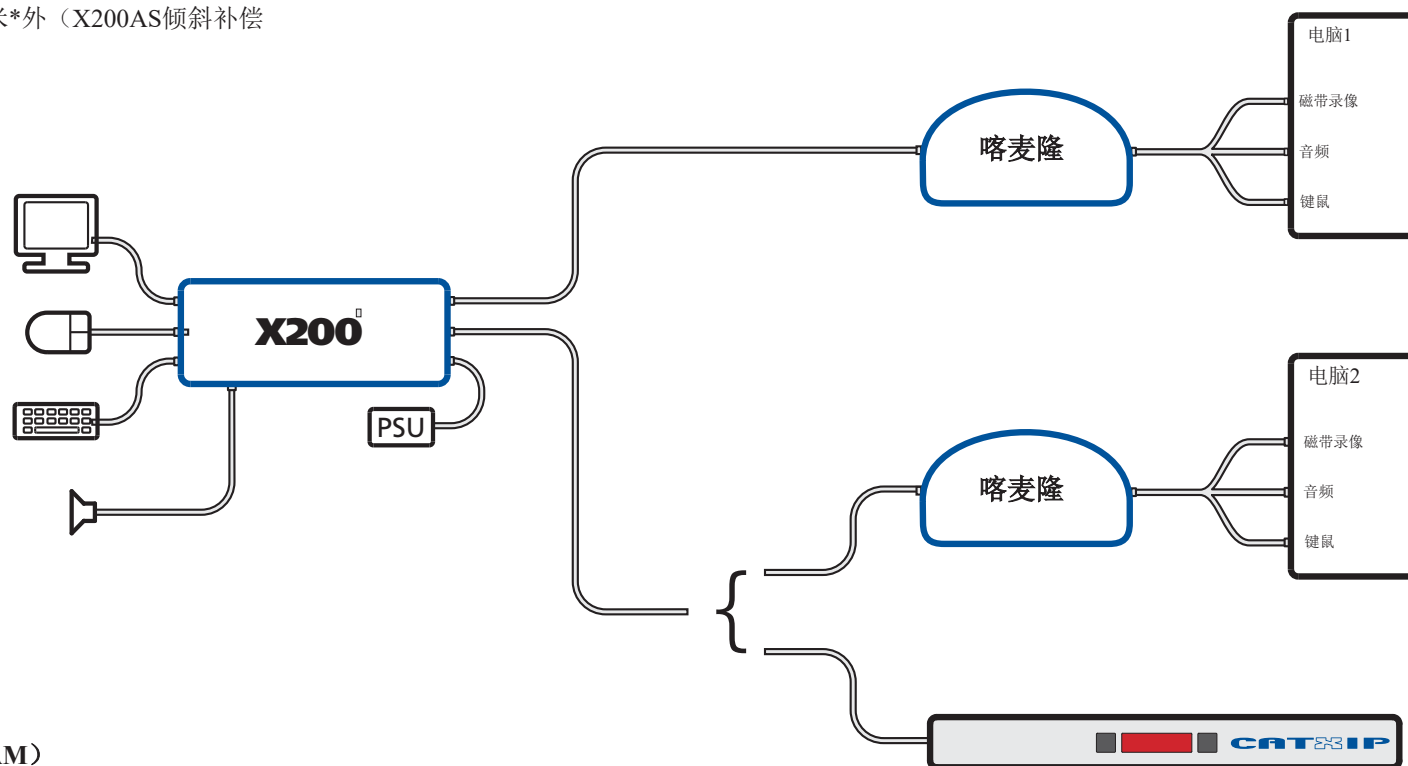
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介

感谢您选择Adder X200扩展器套装。这些紧凑型模块允许您通过一套通用的键盘、视频监视器、鼠标和扬声器远程控制最多两台计算机系统。控制外围设备可以是位于每个计算机系统200米*外（X200AS倾斜补偿模型）。

每台计算机系统的外围连接由计算机访问模块（CAM）处理。CAM与公共X200模块之间的远距离链接通过五类、5e或6类双绞线电缆实现。

远程模块内的特殊电路允许您根据自己的喜好调整锐度和亮度设置。



X200型号范围

延长线对包（X200 + CAM）

X200-USB/P 100米扩展线对，USB摄像头，无音频，无去偏

X200A-USB/P 100米双工延长线，USB摄像头，音频，无去偏功能

X200AS-USB/P 200米双工延长线，USB摄像头，音频及去偏功能

仅限X200接收器（用于CATx交换机等）X200/R 100m接收

器，无音频，无去偏

X200A /R 100m接收器，音频，无去偏

X200AS /R 200米接收机，音频和去偏

X200模块可通过CAM连接到单个计算机系统，或通过AdderView CATx交换机连接到多台计算机

内容

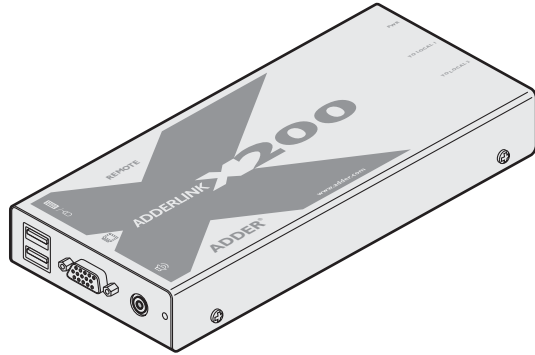
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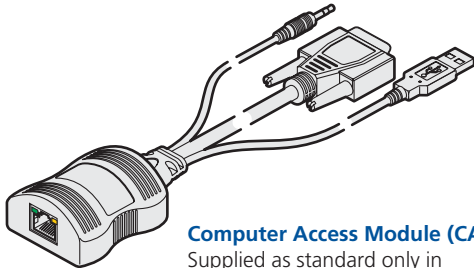
其他
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Supplied items



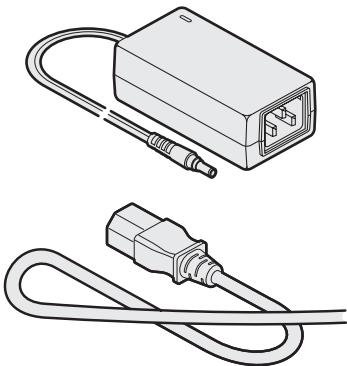
X200 Module

Available with or without audio and skew compensation capabilities

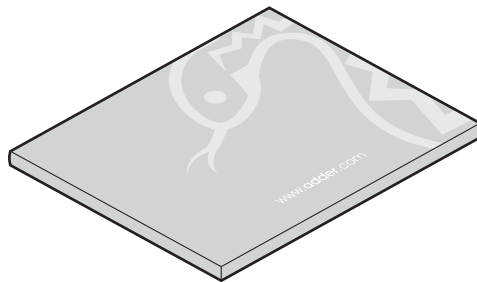


Computer Access Module (CAM)

Supplied as standard only in extender pair packages, otherwise available as options - see opposite.



Power adapter and country-specific power lead



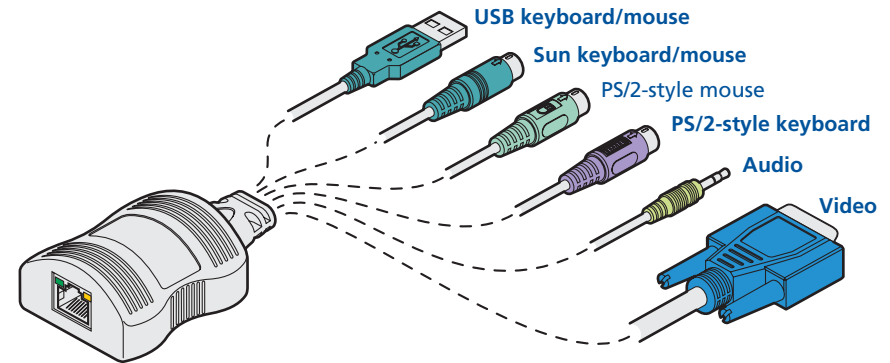
Information wallet

containing:
Four self-adhesive rubber feet
Safety document

What you may additionally need

Additional Computer Access Module (CAM) modules:

USB CAM, no audio	Part number: CATX-USB
USB CAM with audio	Part number: CATX-USBA
PS/2 CAM	Part number: CATX-PS2
PS/2 CAM with audio	Part number: CATX-PS2A
SUN CAM with audio	Part number: CATX-SUNA



Serial flash upgrade cable (4-way jack connector to 9-way D-type male serial connector) - not pictured

Part number: CAB-9DF-RJ9-2M



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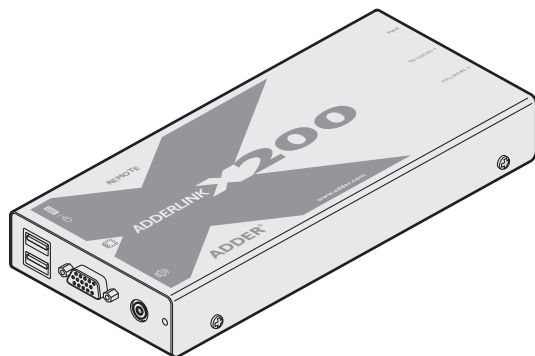
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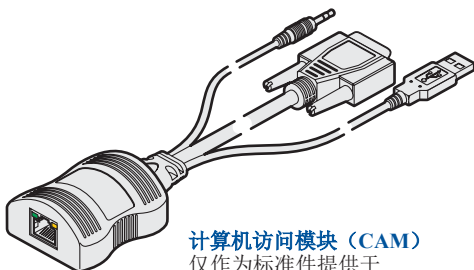
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已提供的项目



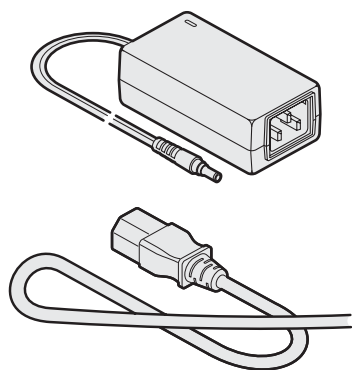
X200模块

可选配音频或不带音频，
以及可选配倾斜补偿功能

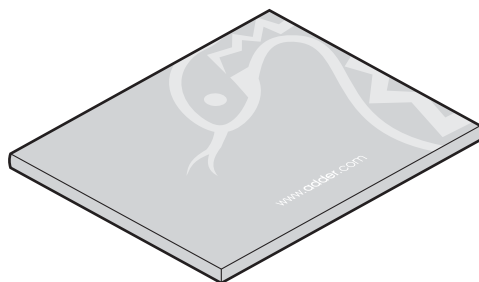


计算机访问模块 (CAM)

仅作为标准件提供于
延伸对线包，否则可作为选项提
供——请参见背面。



电源适配器和国家/
地区专用电源线



信息钱包 控制

四个自粘橡胶脚垫安全文件

您可能还需要什么

其他计算机访问模块 (CAM) 模块:

USB CAM, 带音频的

部件号: CATX-USB

部件号: CATX-USBA

USB CAM和PS/2 CAM

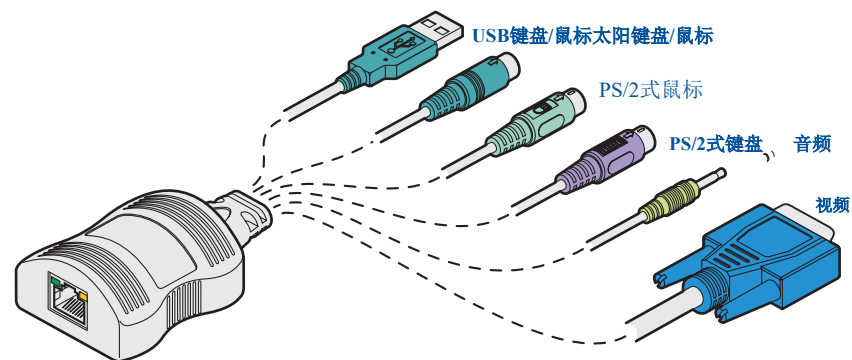
部件号: CATX-PS2

带音频的PS/2 CAM SUN

部件号: CATX-PS2A

带音频的CAM

部件号: CATX-SUNA



USB键盘/鼠标太阳键盘/鼠标

PS/2式鼠标

PS/2式键盘、音频

视频

串行闪存升级电缆 (4路插孔连接器到
9轴D型公串行连接器) -未在图中显示部件号: CAB-9DF-RJ9-2M



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Connections

Installation of the X200 modules is straightforward and minimal configuration requirements in most cases. Each of the (up to) two moulded CAMs (*Computer Access Modules*) connect directly to a computer system, while the remote X200 module is at the other end of the twisted pair cable runs and attaches to the keyboard, mouse, etc.

X200 receiver units can also be used with AdderView CATx switches to allow one or more user consoles to be placed remotely from the central unit.

- [Connections at each CAM \(local\) unit](#)
- [Connections at the X200 \(remote\) module](#)

Cable length advice

The X200 modules support twisted-pair structured cabling within categories 5, 5e and 6. Of these three cable types, category 5 generally provides the best transmission of video signals because its four pairs of conductors are the most evenly twisted.

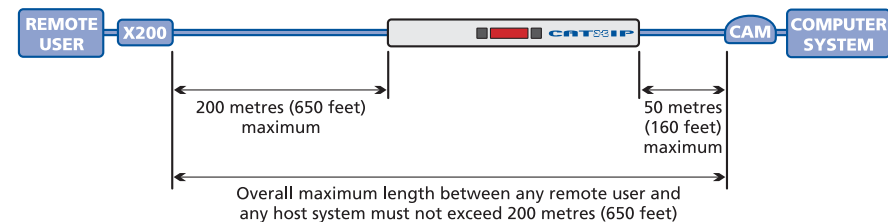
Category 5e and 6 cables use conductor pairs that are unevenly twisted in order to combat interference effects encountered within higher frequency networks. While these uneven twists work well for Ethernet signals, they can impose problems for the video signals transceived by the X200 modules. The X200 modules send the red, green and blue video signals on separate twisted pairs within the cable. If any of the colour signals are made to travel slightly further or shorter distances than the others, the result is seen as misaligned colours on screen. This is called *skew* and becomes more noticeable as cable runs become longer and screen resolutions/refresh rates increase.

As an approximate guide, you should expect the following maximum cable lengths:

Resolution	X200 without de-skew	X200 with de-skew
1920 x 1200	50m	50m
1600 x 1200	100m	200m

When used with an AdderView CATx switch

It is possible to locate each CAM up to 50 metres from the AdderView CATx switch. This distance must be taken into account when planning the cable run from the X200 to the CATx switch. The total distance from any X200 to any CAM must not exceed 200 metres (or less if an X200 without de-skew is used).



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连接

在大多数情况下，安装X200模块非常简单，对配置要求也很低。每个（最多两个）模制的CAM（*计算机访问模块*）直接连接到计算机系统，而另一端的X200模块则位于双绞线电缆的另一端，并连接到键盘、鼠标等设备。X200接收器单元还可与AdderView CATx交换机一起使用，以便将一个或多个用户控制台放置在远离中央单元的位置。

- [各CAM（本地）单元之间的连接](#)
- [X200（远程）模块上的连接](#)

线缆长度建议

X200模块支持类别内的双绞线结构化布线5、5e和6。在这三种电缆类型中，类别5通常提供最好的视频信号传输，因为它的四对导线是最均匀的。

为应对高频网络中的信号干扰，五类和六类网线采用非均匀绞合导体对。虽然这种特殊设计能有效抑制以太网信号的干扰，却会给X200模块传输的视频信号带来麻烦。该模块通过独立的双绞线对分别传输红、绿、蓝三色视频信号。若任一颜色信号的传输距离与其它信号存在细微差异，就会导致屏幕显示颜色偏移。这种现象称为**偏斜**效应，且随着线缆长度增加及屏幕分辨率/刷新率提升，其表现会愈发明显。

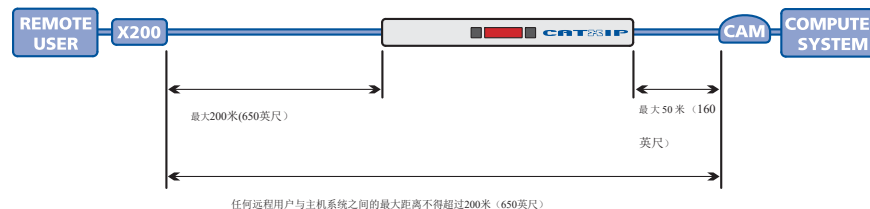
作为近似指南，您应该预计以下最大电缆长度：

无去偏斜的X200分辨率带去偏斜的X200分辨率

1920 x 1200	50m	50m
1600 x 1200	100m	200m

与AdderView CATx交换机配合使用时

每个CAM与AdderView CATx交换机之间的距离可达50米。规划从X200到CATx交换机的电缆路径时必须考虑此距离。任何X200到CAM的总距离不得超过200米（如果使用无去斜的X200，则更短）。



内容

欢迎

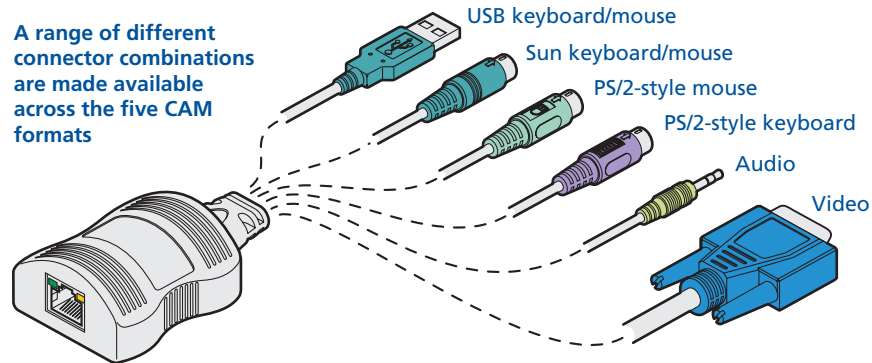
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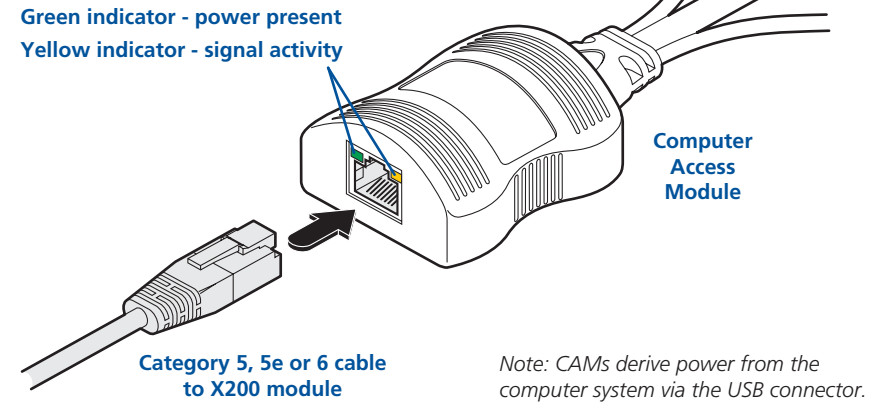
Connections at each CAM (local) unit

- 1 Where possible ensure that power is disconnected from the system(s) to be connected. For CAMs with PS/2 keyboard and mouse connections, see [Hot plugging PS/2-style connections and mouse restoration](#).
- 2 For each CAM, attach its various connectors to the relevant sockets on the computer system.



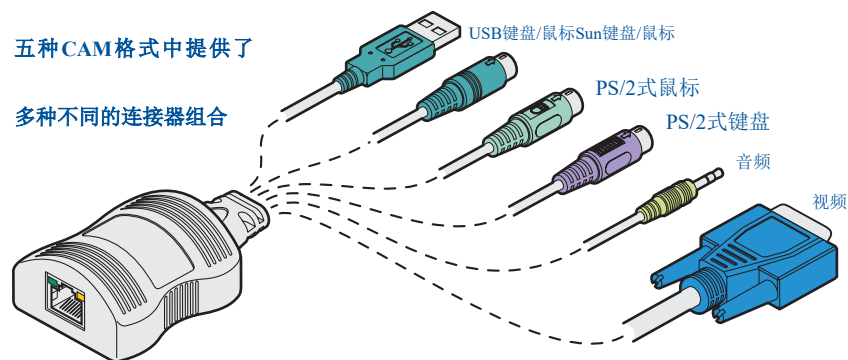
- 3 Lay a suitable length of category 5, 5e or 6 cabling between each computer system/CAM and the location of the remote peripherals - see [Cable length advice](#).

- 4 For each cable run, attach the cable connector to the socket of the CAM. The other end of each cable run will attach to the remote X200 module.



各CAM（本地）单元之间的连接

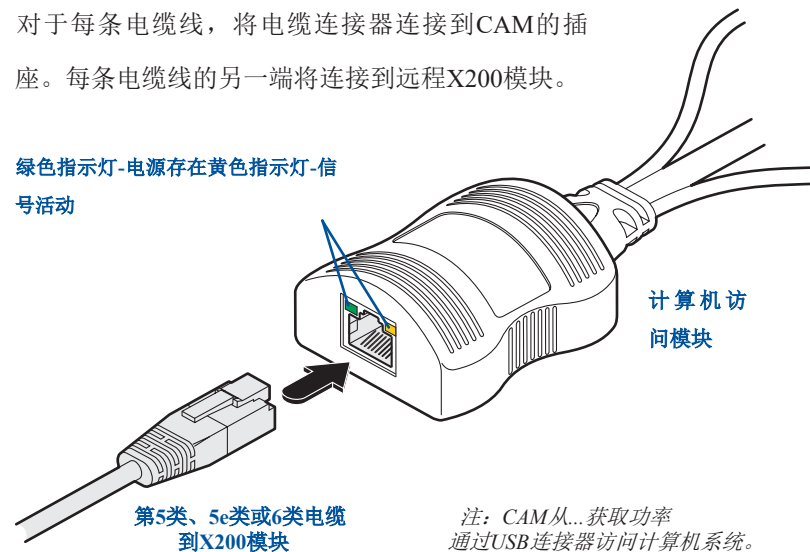
- 1 在可能的情况下，确保切断要连接的系统电源。对于具有PS/2键盘和鼠标连接的CAM，请参见[“热插拔” PS/2风格连接和鼠标恢复](#)。
- 2 对于每个CAM，将其各种连接器连接到计算机系统上的相应插座。



- 3 在每个计算机系统/CAM和远程外围设备的位置之间铺设适当长度的5类、5e类或6类电缆——请参阅[电缆长度](#) 建议。

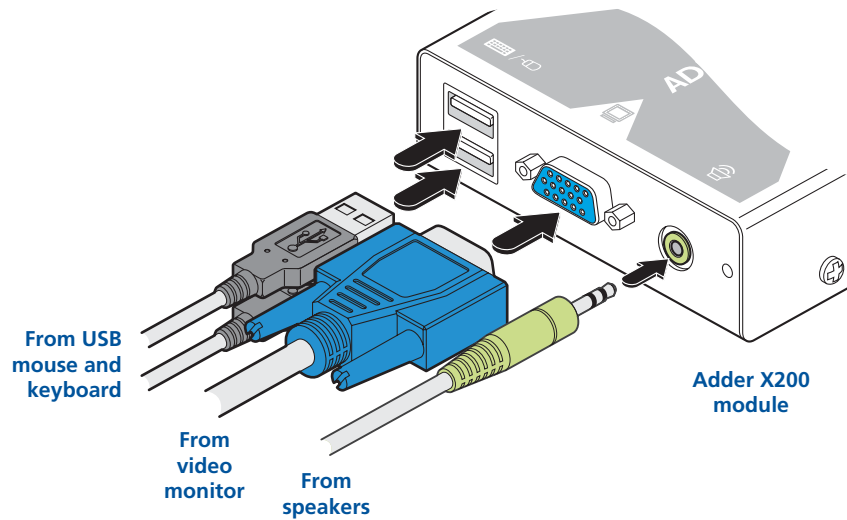
- 4 对于每条电缆线，将电缆连接器连接到CAM的插座。每条电缆线的另一端将连接到远程X200模块。

绿色指示灯-电源存在黄色指示灯-信号活动



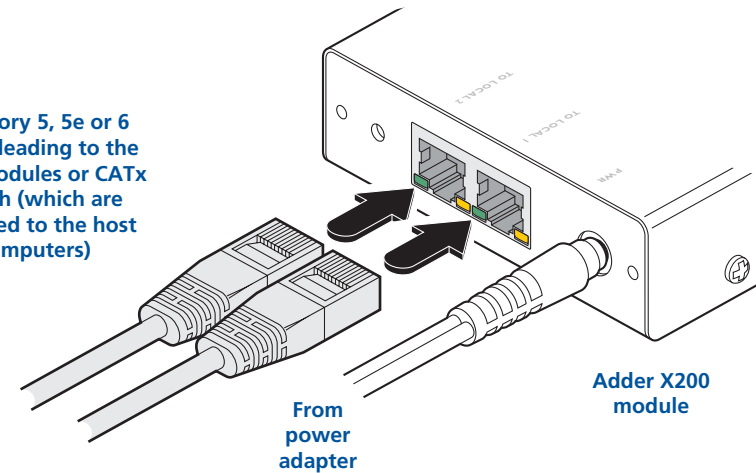
Connections at the X200 (remote) module

- 1 Place the X200 module adjacent to the remote user location.
- 2 Attach the video monitor, USB keyboard, USB mouse and speaker connectors to the sockets of the Adder X200 module.



- 3 Attach the connector of each cable run leading from the CAMs (and/or AdderView CATx switch) to the **TO LOCAL 1** and **TO LOCAL 2** sockets of the X200.

Category 5, 5e or 6 cables leading to the CAM modules or CATx switch (which are attached to the host computers)



X200 indicators

Red indicator - power present

Green indicators - On when the corresponding channel is selected

Yellow indicators - On when link to CAM or CATx switch is made
Flashing to show signal activity

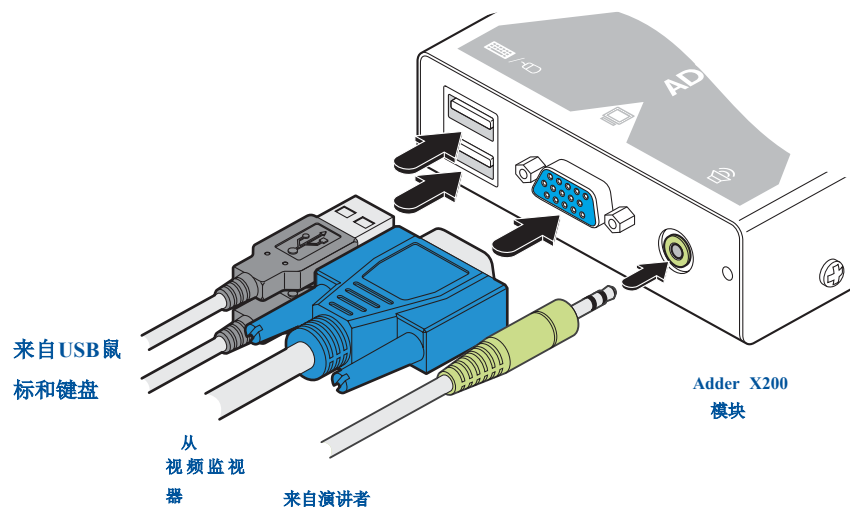
Both green indicators off - X200 module is password locked

Green indicator for channel 1 flashing - X200 is in flash upgrade mode (SW1 ON)

- 4 Insert the output connector of the power supply into the socket at the front edge of the X200 module labelled **POWER**.
- 5 Insert the IEC connector of the supplied power lead into the corresponding socket of the power supply. Connect the other end of the power lead to a nearby mains socket.
- 6 Where necessary, use the in-built video compensation feature to eliminate any effects caused by the cable run. See [Video compensation](#) for details.

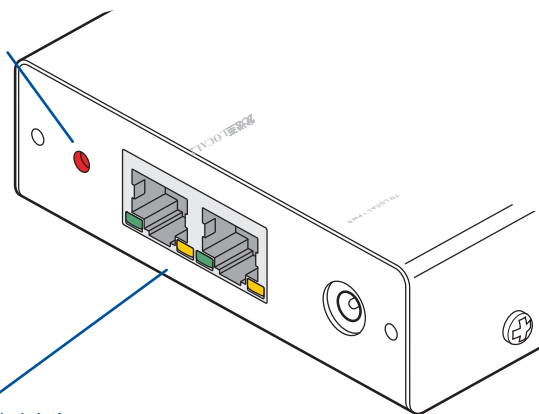
X200（远程）模块上的连接

- 1 将X200模块放置在远程用户位置附近。
- 2 将视频监视器、USB键盘、USB鼠标和扬声器连接器连接到Adder X200模块的插座上。



X200指示灯

红色指示灯——电源存在



绿色指示灯——当选择相应通道时点亮

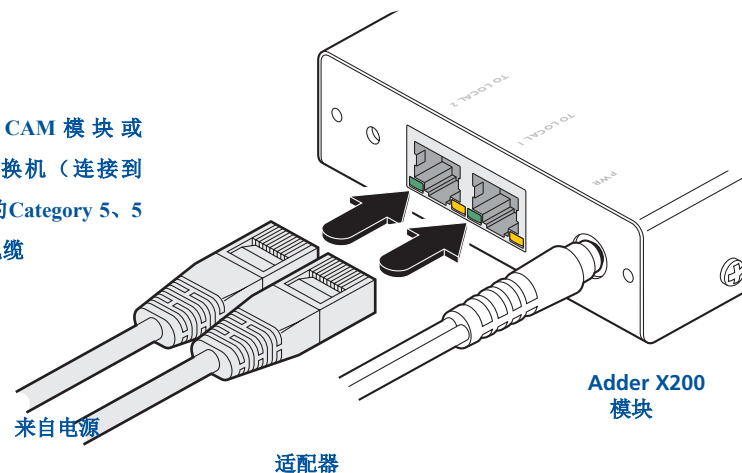
黄色指示灯——建立与CAM或CATx交换机的连接时
闪烁以显示信号活动

两个绿色指示灯熄灭- X200模块被密码锁定

通道1绿色指示灯闪烁- X200处于闪回升级模式 (SW1 ON)

- 3 连接从CAM（和/或AdderView CATx交换机）到X200的TO LOCAL 1和TO LOCAL 2插槽的每条电缆的接头。

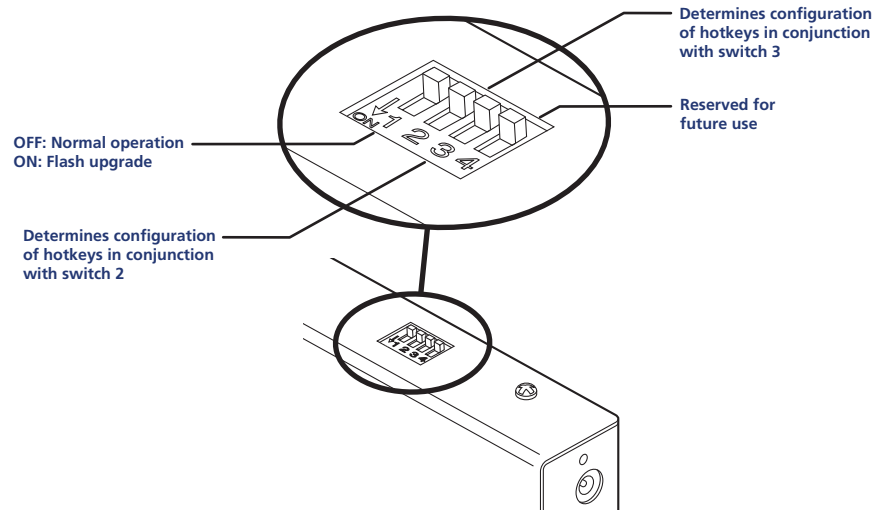
连接至CAM模块或
CATx交换机（连接到
主机）的Category 5、5
e或6类电缆



- 4 将电源的输出连接器插入X200模块前缘标有POWER的插座中。
- 5 将电源线的IEC连接器插入电源的对应插座，将电源线的另一端连接到附近的市电插座。
- 6 必要时，使用内置的视频补偿功能以消除由电缆敷设引起的任何影响。有关详细信息，请参阅[视频补偿](#)。

X200 module switches

Certain aspects of operation can be affected by the switches on the X200 module.



Note: When shipped, all switches are set in the OFF positions and this will produce normal operation.

Switch 1

OFF: Normal operation.

ON: (Before power is applied) Places the X200 module into flash upgrade mode so that the internal software can be changed. Please see the [Flash upgrade](#) section in the 'Special configuration' chapter.

Switches 2 and 3

Switches 2 and 3 determine which two keyboard keys (when pressed in unison) are to be designated as 'hotkeys'. Hotkeys signal to the X200 module that the next key to be pressed is a special configuration command for the module and is not to be passed to the computer system.

2 OFF

3 OFF Hotkeys = CTRL and SHIFT

2 OFF

3 ON Hotkeys = ALT and SHIFT

2 ON

3 OFF Hotkeys = CTRL and ALT

2 ON

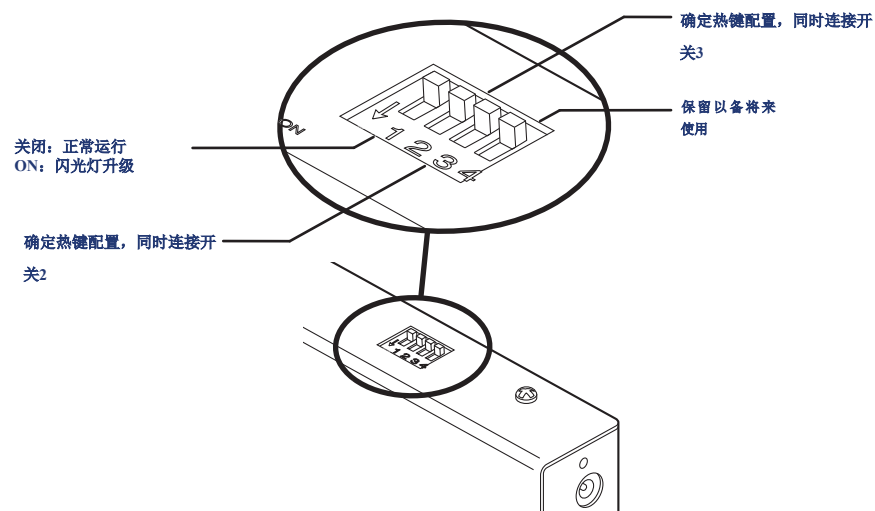
3 ON Hotkeys disabled

Switch 4

This switch is reserved for future use.

X200模块交换机

X200模块上的开关可能会影响某些操作方面。



注：在装运时，所有开关均设置为关闭位置，这将产生正常操作。

交换机1

关闭：正常运行。

ON：（通电前）将X200模块放入闪存升级模式，以便更改内部软件。请参

阅“特殊配置”一章中的[闪存升级](#)部分。

交换机2和3

开关2和3确定哪两个键盘键（当同时按下时）被指定为“热键”。热键向X200模块发出信号，表示下一个要按下的键是该模块的特殊配置命令，且不会传递到计算机系统。

2 从...落下

3 从...落下 热键 = CTRL 和 SHIFT 热

2 从...落下

3 打开

2 打开

键 = ALT 和 SHIFT 热键 =

3 从...落下

2 打开

CTRL和ALT热键已禁用

3 开关4

此开关保留供将来使用。



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General use

In use, the X200 module should be transparent - the system and its peripherals should operate exactly as normal, the only difference being that they are now a long distance apart and two computer systems (or more when used with an AdderView CATx switch) can be viewed from a single set of peripherals.

In some installations, you may see some 'shadows' to the right of high contrast screen characters. This can be caused by an incorrectly selected sharpness setting and it may be necessary to make adjustments to correct this. Please see [Video compensation - sharpness and brightness](#) in the 'Special configuration' section.

Selecting and using computers

To select a system using the keyboard

Use the keypress combinations (on the common keyboard) to switch between the two computer systems. In each case, you need to simultaneously press the currently configured hotkeys (by default, **Ctrl** and **Shift**) together with the number of the required system:

- System 1: Press the hotkeys (by default, **Ctrl** and **Shift**) along with **1**
- System 2: Press the hotkeys (by default, **Ctrl** and **Shift**) along with **2**

Once entered, (providing the system isn't locked - see opposite) the remote peripherals will be connected to the chosen system and you can begin using it as normal.

To disconnect from both systems (using the keyboard)

Press the currently configured hotkeys (by default, **Ctrl** and **Shift**) along with **0**

To select a system using a 3 button mouse

You can use a 3 button mouse to change between channels. A 3 button mouse can either have three distinct buttons or alternatively be a 'wheel mouse' where the central scroll wheel may be depressed.

Notes: You first need to enable mouse switching - see [Mouse switching control](#). When mouse switching is enabled, the click of the centre button (or wheel) will not be passed to the host computer - the rotary action of a scroll wheel will, however, continue as normal.

Press and hold the centre mouse button and then click the left mouse button to change between the two channels.

Locking and unlocking the system

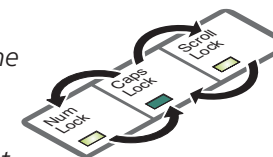
In situations where the computer systems (and their local CAMs) can be locked away, the X200 module offers a viable security system to deter unauthorised use. Once a password has been set, a simple key sequence allows each system to be quickly and securely detached from the common peripherals. Only the correct password will reconnect the remote and local modules.

To lock the system

- 1 First set a password. For further details, please refer to the [Password setting](#) section in the 'Special configuration' chapter.
- 2 Simultaneously press the currently configured hotkeys (by default, **Ctrl** and **Shift**) along with **L**.

The screen will go blank and the three keyboard indicators will begin alternately flashing between the 'Num Lock' and 'Scroll Lock', and 'Caps Lock'. This sequence indicates that a password is required.

Additionally neither of the green indicators adjacent to the CATx connectors on the X200 module will be lit.



To unlock the system

- 1 Enter the correct password and press **Enter**.

Note: Passwords are NOT case sensitive.

*Note: If an invalid password has been entered and the keyboard indicators are not flashing as described above, press **Enter** to clear the incorrect attempt.*

- 2 If the correct password is entered, the screen will be restored and normal operation can continue.



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在使用中，X200模块应该是透明的——系统及其外围设备应完全按照正常方式运行，唯一的区别是它们现在相距较远，并且两个计算机系统（或使用AdderView CATx交换机时的更多）可以从一组外围设备中查看。

在某些安装中，您可能会看到高对比度屏幕字符的右侧有一些“阴影”。这可能是由于不正确选择锐度设置所导致的，并且可能需要进行调整以更正此问题。请参阅“特殊配置”部分中的[视频 补偿-锐度和亮度](#)。

选择和使用计算机

使用键盘选择系统

使用键组合（在普通键盘上）在两个计算机系统之间切换。在每种情况下，您需要同时按当前配置的热键（默认情况下，**Ctrl** 和 **Shift**）以及所需系统的编号：

- 系统1：按下热键（默认为画和画）以及**1**
- 系统2：按下热键（默认为画和画）并回。一旦进入（前提是系统未锁定——参见对面说明），远程外设将连接到所选系统，您可以像往常一样使用它。

断开与两个系统的连接（使用键盘）

按当前配置的热键（默认情况下，**Ctrl** 和画）一起**0**

使用三键鼠标选择系统

您可以使用三键鼠标在通道之间切换。三键鼠标可以是三个不同的按钮，也可以是“滚轮鼠标”，其中心滚动轮可以被按下。

注意：首先需要启用鼠标切换-请参见[鼠标切换 控制](#)。启用鼠标切换后，单击中心按钮（或滚轮）将不会传递到主机，但滚动轮的旋转动作仍会正常进行。

按住鼠标中键，然后单击左键，在两个通道之间进行切换。

锁定和解锁系统

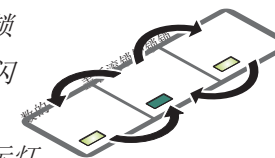
在计算机系统（及其本地CAM）可以被锁起来的情况下，X200模块提供了一个有效的安全系统来防止未经授权的使用。一旦设置了密码，一个简单的按键序列就可以让每个系统快速且安全地从公共外围设备中分离出来。只有正确的密码才能重新连接远程和本地模块。

锁定系统

- 1 首先设置密码。有关详细信息，请参阅“特殊配置”一章中的“[密码](#)”设置部分。
- 2 同时按当前配置的热键（默认情况下，**Ctrl** 和 **Shift**和...一起**L**）。

屏幕将变为空白，三个键盘指示灯将在“数字锁定”和“滚动锁定”以及“大写锁定”之间交替闪烁。此序列表示需要密码。

此外，X200模块上CATx连接器旁边的两个绿色指示灯都不会点亮。



解锁系统

- 1 输入正确的密码并按**Enter**。

注意：密码不区分大小写。

注：如果输入无效密码，且键盘指示灯未按上述说明闪烁，请按下**Enter**以清除错误的尝试。

- 2 如果输入正确的密码，屏幕将恢复并可以继续正常操作。

Special configuration

Configuration

You can alter the way that the X200 module operates to suit your requirements. This is done using the Configuration mode and you can affect the following settings:

- [Password setting](#) – allows you to lock the remote module to prevent unauthorised system access.
- [Mouse switching control](#) – determines whether channels may be selected using a three button mouse.
- [Video compensation](#) - sharpness & brightness – allows you to manually adjust the video image to ensure that it is crisp and bright.
- [Video skew adjustment](#) - X200AS models only - allows you to compensate for the effects of long cable runs on colour reproduction.
- [Miscellaneous settings](#) – report firmware version and restore settings.

What are hotkeys?

Hotkeys are two normal keyboard keys that, when pressed simultaneously with a third key, signal to the X200 module that you are sending a message specifically to it and not to the connected computer. The hotkeys are ordinarily **Ctrl** and **Shift**, while a third keypress determines what you want the module to do.

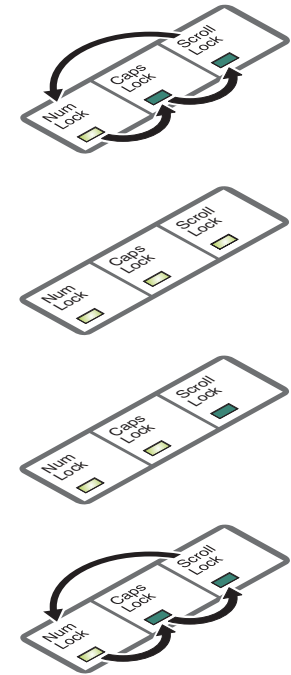
If the standard **Ctrl** and **Shift** hotkeys are also needed for computer tasks, you can change them for another combination using switches 2 and 3 on the X200 remote module:

- | | |
|-------|--|
| 2 OFF | |
| 3 OFF | Hotkeys = Ctrl and Shift (default setting) |
| 2 OFF | |
| 3 ON | Hotkeys = Alt and Shift |
| 2 ON | |
| 3 OFF | Hotkeys = Ctrl and Alt |
| 2 ON | |
| 3 ON | Hotkeys disabled |

Entering, using and exiting configuration mode

To enter and use configuration mode:

- 1 Simultaneously press the currently configured hotkeys (by default, **Ctrl** and **Shift**) along with **F1**.
The three keyboard indicators ('Num Lock', 'Caps Lock' and 'Scroll Lock') will now begin to flash in sequence to show that you are in configuration mode.
- 2 Press the first letter of the required configuration option, for instance **F**.
All three keyboard indicators will illuminate continuously.
- 3 Press the number of the required configuration option, for instance **8**.
The 'Scroll Lock' indicator will extinguish, leaving the 'Num Lock' and 'Caps Lock' indicators lit.
- 4 Press **F1** to confirm your option.
The three keyboard indicators ('Num Lock', 'Caps Lock' and 'Scroll Lock') will now begin to flash in sequence again.



To exit from configuration mode:

- 1 Within configuration mode, the three keyboard indicators should be flashing in sequence to show that the module is ready to receive a new command.
- 2 Press **F1**.
The three indicators will return to their normal states.

特殊配置

配置

您可以根据需要更改X200模块的操作方式。使用配置模式可以影响以下设置：

- **密码设置**—允许您锁定远程模块，以防止未经授权的系统访问。
- **鼠标切换控制** -确定是否可以使用三键鼠标选择通道。
- **视频补偿 -锐度和亮度**-允许您手动调整视频图像，以确保其清晰和明亮。
- **视频倾斜调整**—仅限X200AS型号——允许您补偿长电缆对色彩再现的影响。
- **其他设置**—报告固件版本并恢复设置。

什么是热键？

热键是两个普通键盘键，当同时按下热键和第三个键时，向X200模块发出信号，表明您正在发送一条专门给X200模块而不是给连接的计算机的信息。热键通常 Ctrl 和 Shift ，而第三个按键决定你想让模块做什么。

如果标准 Ctrl 和 Shift 热键对于计算机任务也是必需的，您可以使用X200远程

模块上的开关2和3将其更改为其他组合：

- 2 从...落下
- 3 关闭快捷键= Ctrl 和 Shift 默认设置
- 2 从...落下
- 3 启用热键= Alt 和 Shift
- 2 打开
- 3 关闭快捷键= Ctrl 和 Alt
- 2 已开启
- 3 禁用ON键

进入、使用 and 退出配置模式

要进入并使用配置模式：

- 1 同时按当前配置的热键（默认情况下， Ctrl 和 Shift 和...一起 Enter ）。三个键盘指示灯（“Num Lock”、“Caps Lock”和“Scroll Lock”）现在将开始按顺序闪烁，以显示您处于配置模式。

- 2 按所需配置选项的第一个字母，例如回。

所有三个键盘指示灯将持续点亮。

- 3 输入所需配置选项的编号，例如回。

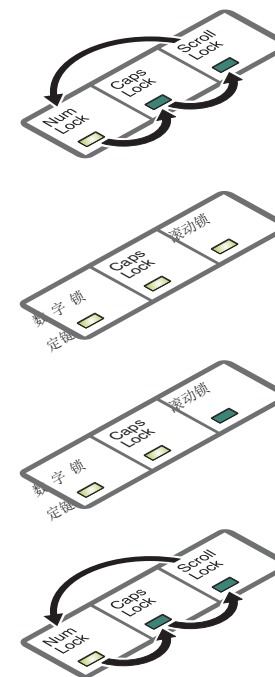
“滚动锁定”指示灯熄灭，而“数字锁定”和“大写锁定”指示灯点亮。

- 4 按压 Enter 以确认您的选择。

三个键盘指示灯（“Num Lock”、“Caps Lock”和“Scroll Lock”）现在将再次开始按顺序闪烁。

要退出配置模式：

- 1 在配置模式下，三个键盘指示灯应按顺序闪烁，以显示模块已准备好接收新命令。
- 2 按压 Enter 。
这三个指示器将恢复到正常状态。



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Password setting

Password protection allows you restrict access to the system only to authorised personnel. A password first needs to be set and then, using the keyboard attached to the remote X200 module, a simple key sequence allows the system to be quickly and securely detached from its peripherals.

To set a password

- 1 Simultaneously, press the hotkeys (by default, **Ctrl** and **Shift**) along with **F1** to enter configuration mode.
- 2 Press **P** followed by **F1**.
- 3 Now enter your new password, within the following constraints:
 - Passwords are NOT case sensitive,
 - Passwords may be any length from one character to a maximum of forty characters,
 - The following keys may NOT be used: **Ctrl**, **Alt**, **Shift**, or **F1**
- 4 When you have entered the password, press **F1** to signal its completion.
- 5 Press **F1** once more to exit configuration mode.

For full details about how to lock and unlock the system using your password, please see the [Locking and unlocking the system](#) section in the 'Installation and operation' chapter.

To clear a password (and restore factory default settings)

- 1 Connect the X200 module to a computer in the same manner as you would to carry out a flash upgrade - see [Performing flash upgrades](#).
- 2 While power is applied, set the X200 upgrade switch SW1 to its ON position.
- 3 Remove power from the X200 unit and then re-apply power.
- 4 Set the computer serial settings to the following: 19200, n, 8, 1
- 5 Using 'TeraTerm' (recommended) or an alternative terminal program, send "CLEAR<cr>" - in upper or lower case from the keyboard. The X200 unit should respond with "OK".
- 6 The password is now clear and all factory default settings restored.

Mouse switching control

In order to allow a 3 button mouse (or scroll wheel mouse) to be used to change channels, it is first necessary to enable the feature using the process described here. For details about switching using a mouse - see [Selecting and using computers](#).

Note: When mouse switching is enabled, the click of the centre button (or wheel) will not be passed to the host computer - the rotary action of a scroll wheel will, however, continue as normal.

To enable/disable mouse switching

- 1 Simultaneously, press the hotkeys (by default, **Ctrl** and **Shift**) along with **F1** to enter configuration mode.
- 2 To enable mouse switching: Press **M** **2** **F1**
To disable mouse switching: Press **M** **1** **F1**
- 3 Press **F1** to exit configuration mode.



密码设置

密码保护允许您将访问限制为仅限于授权人员。首先需要设置密码，然后使用连接到远程X200模块的键盘，简单的键序列允许系统快速且安全地从其外围设备中分离。

设置密码

- 1 同时，按热键（默认情况下， 和 ）以及进入配置模式。
- 2 新闻回后跟.
- 3 现在输入您的新密码，满足以下约束条件：
 - 密码不区分大小写，
 - 密码可以是任意长度，从一个字符到最多40个字符，
 - 以下密钥可能不可用：, , 或
- 4 输入密码后，按以示其完成。
- 5 按压再次退出配置模式。

有关如何使用密码锁定和解锁系统的完整详细信息，请参阅“安装和操作”一章中的[锁定和解锁系统](#)部分。

清除密码（并恢复出厂默认设置）

- 1 将X200模块连接到计算机的方式与执行闪存升级的方式相同-请参阅[执行闪存升级](#)。
- 2 通电时，将X200升级开关SW1设置为ON位置。
- 3 切断X200装置电源，然后重新通电。
- 4 将计算机串行设置设定为以下值：19200、n、8、1
- 5 使用“TeraTerm”（推荐）或其它终端程序，从键盘发送“CLEAR <cr>”——可以是大写也可以是小写。X200单元应该会以“OK”作为响应。
- 6 密码现在是清晰的，所有出厂默认设置都已恢复。

小鼠切换控制

若要允许使用3键鼠标（或滚动轮鼠标）来切换频道，首先需要使用此处描述的过程启用此功能。有关使用鼠标切换的详细信息，请参阅[选择和使用 计算机](#)。

注意：当鼠标切换被启用时，中心按钮（或滚轮）的点击将不会传递到主机——但是，滚动轮的旋转动作将正常继续。

启用/禁用鼠标切换

- 1 同时，按热键（默认情况下， 和 ）以及进入配置模式。
- 2 要启用鼠标切换，请按wa要禁用鼠标切换：
按
- 3 按压到退出配置模式。

Hot plugging PS/2-style connections and mouse restoration

For computer systems that use PS/2-style keyboard and mouse connections, it is strongly recommended that you switch off the computer system before attempting to connect it via the CAM. However, if this is not possible then you need to 'hot plug' the CAM while power is still applied to the system (keyboards and mice with USB connections are unaffected by hot-plugging). There is not normally a danger of damage to the system, however, when PS/2 mouse communications are interrupted, often they fail to reinitialise when reconnected. CAMs provide a feature to reinstate mouse communications once the necessary connections have been made.

There are two main types of data formats used by current PC mice, these are the older 'PS/2' format and the more recent 'IntelliMouse®' format introduced by Microsoft. These use slightly different data arrangements and it is important to know which type was being used before you hot-plugged the CAM module. The previous setting depends both on the type of mouse and the type of driver as various combinations of PS/2 and Intellimouse are possible. Using the incorrect restore function may produce unpredictable results and require the system to be rebooted.

Which restore setting do I use?

The general rule is that unless both the mouse *and* the driver are *both* Intellimouse compatible then you need to restore the mouse as 'PS/2'.

Recognising an Intellimouse-style mouse

The Intellimouse format was introduced to support, among other features, the scroll wheel function. If your mouse has a scroll wheel, then it is likely to support the Intellimouse format. If you have a Microsoft mouse, then it will usually state that it is an Intellimouse on its underside label.

Recognising an Intellimouse driver

Before hot plugging your CAM (or afterwards using only keyboard control), access the Windows Control Panel and select either the *Mouse* option (on Windows NT, 2000 and XP) or the *System* option (on Windows 95, 98, ME). Look for the name of the driver, which will usually include the words *PS/2* or *Intellimouse*.

To restore mouse operation when hot plugging:

- 1 Carefully connect the CAM to the system and its keyboard, mouse, monitor and audio output (if used).
- 2 Simultaneously, press the hotkeys (by default, **Ctrl** and **Shift**) along with  to enter configuration mode.
- 3 Enter the appropriate restore function code:
 - *PS/2* – press **M** **6** 
 - *IntelliMouse* – press **M** **7** 
- 4 To exit configuration mode, press .
- 5 Move the mouse a short distance and check for appropriate on-screen cursor movement. If the mouse cursor darts erratically around the screen, then cease moving the mouse. This is an indication that the chosen restore function is incorrect. Try again using the other restore function.

Note: The restore functions predict the likely mouse resolution settings but may not restore the exact speed or sensitivity settings that were originally set.

Microsoft and Logitech -specific mouse settings

In certain installations some Logitech mouse drivers may lose the action of the mouse buttons when used with the standard 'Microsoft compatible' signalling protocol used between the modules. To solve this problem, select the 'Logitech compatible' mouse signalling protocol.

To change mouse signalling protocols

- 1 Simultaneously, press the hotkeys (by default, **Ctrl** and **Shift**) along with  to enter configuration mode.
- 2 Enter the appropriate protocol code:
 - *Microsoft compatible* – press **M** **3** 
 - *Logitech compatible* – press **M** **4** 
- 3 To exit configuration mode, press .



热插拔PS/2样式的连接和鼠标恢复

对于采用PS/2接口连接键盘和鼠标的计算机系统，强烈建议在尝试通过CAM连接前先关闭主机电源。若无法关闭电源，则需在系统通电状态下进行CAM的热插拔操作（USB接口键盘和鼠标不受热插拔影响）。通常情况下，PS/2鼠标通信中断不会对系统造成损害，但重新连接时往往无法完成初始化。CAM设备具备在完成必要连接后自动恢复鼠标通信的功能。

当前PC鼠标主要采用两种数据格式：较早的“PS/2”标准和微软推出的新型“IntelliMouse®”格式。这两种格式的数据架构存在细微差异，在热插拔CAM模块前了解具体使用的是哪种类型至关重要。系统恢复出厂设置时，需要同时考虑鼠标类型和驱动程序的兼容性，因为可能存在PS/2与Intellimouse的多种组合情况。若使用错误的恢复功能可能导致不可预测的结果，甚至需要重启整个系统。

我该使用哪种恢复设置？

一般规则是，除非鼠标和驱动程序都兼容Intellimouse，否则您需要将鼠标恢复为“PS/2”。

识别Intellimouse风格的鼠标

Intellimouse格式除其他功能外，还用于支持滚动轮功能。如果鼠标具有滚动轮，则很可能支持Intellimouse格式。如果使用的是Microsoft鼠标，则通常会在鼠标底部标签上声明该鼠标是Intellimouse型号。

识别Intellimouse驱动程序

在对CAM进行热插拔（或之后仅使用键盘控制）之前，请访问Windows控制面板并选择“鼠标”选项（在Windows NT、2000和XP上）或“系统”选项（在Windows 95、98、ME上）。

寻找驱动程序的名称，它通常包括PS/2或Intellimouse的单词。

要恢复热插拔时的鼠标操作：

1 小心地将CAM连接到系统及其键盘、鼠标、显示器和音频输出（如果使用）。

2 同时，按热键（默认情况下，**Ctrl** 和 **Shift** 和...一起）进入配置模式。

3 输入相应的恢复功能代码：

- PS/2接口-按钮 **M 6**
- IntelliMouse-压 **M 7**

4 要退出配置模式，请按。

5 将鼠标移动一小段距离，检查屏幕上的光标是否移动正确。如果鼠标光标在屏幕上乱窜，请停止移动鼠标。这表明所选的还原功能不正确。请尝试使用其他还原功能。

注：恢复功能可预测鼠标分辨率设置的可能值，但可能无法恢复最初设置的确切速度或灵敏度设置。

Microsoft和Logitech专用鼠标设置

在某些安装中，使用模块之间的标准“Microsoft兼容”信号协议时，某些Logitech鼠标驱动程序可能会丢失鼠标按钮的作用。要解决此问题，请选择“Logitech兼容”鼠标信号协议。

改变小鼠信号传导协议

1 同时，按热键（默认情况下，**Ctrl** 和 **Shift**）以及进入配置模式。

2 输入相应的协议代码：

- Microsoft兼容—按压 **M 3**
- 兼容罗技——新闻 **M 4**

3 要退出配置模式，请按。

Video compensation (sharpness and brightness)

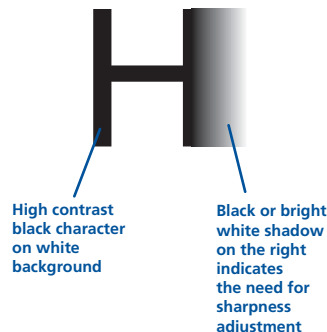
Using the in-built X200 controls you can adjust the picture sharpness and brightness to improve the remote picture quality.

Video compensation is best carried out when viewing high contrast images with vertical edges, such as black lines on a white background. When doing so, if you notice that the screen image is 'fuzzy' or 'dark' then the image controls may not be able to solve this condition.

To display a suitable high contrast image

The best way to clearly view the effect of sharpness and brightness adjustments is to display a high contrast image, with vertical edges, on the screen.

- Open a word processor, type the capital letter 'H', or 'M' and increase the point size to 72 or higher. For best results, the background should be white and the character should be black.
- A BLACK shadow on the right of the character indicates UNDER compensation.
- A WHITE shadow on the right of the character indicates OVER compensation.



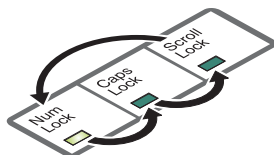
Note: The Word processor method is accurate and quick. However, for the very finest video compensation, use the latest Adder "skew" test pattern program which shows both the skew pattern and a section of mixed size Hs (black on white and white on black).

To apply remote user video compensation

Video compensation is controlled by the X200 module and it maintains independent compensation settings for each of its two ports.

Note: When used with an AdderView CATx switch, also see the section opposite.

- 1 **First select the port that you wish to adjust:** On the keyboard that is connected to the X200 remote module, simultaneously, press the hotkeys (by default, **Ctrl** and **Shift**) along with **1** for the first port or **2** for the second port.
- 2 **Now enter video configuration mode:** On the same keyboard, simultaneously, press the hotkeys along with **Enter**.
The three keyboard indicators ('Num Lock', 'Caps Lock' and 'Scroll Lock') will now begin to flash in sequence. The speed of the sequence indicates the level of the sharpness adjustment currently applied: the slower the rate, the lower the level of sharpness being applied.



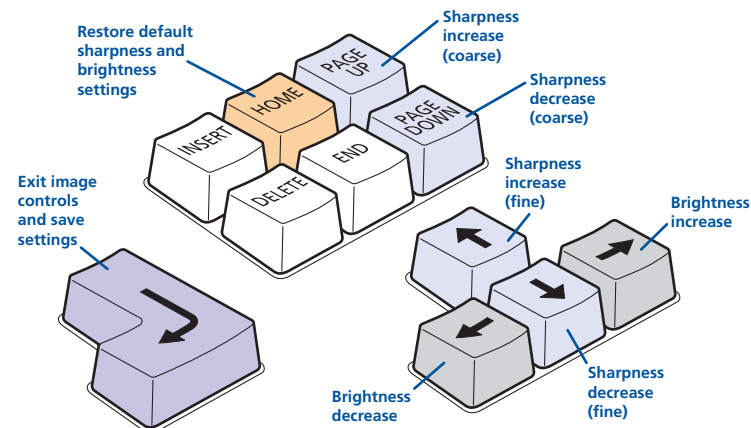
- 3 While viewing the displayed screen image, use the following keys to adjust the controls:

Sharpness: **↑ ↓** for fine adjustment, **Page Up Page Down** for coarse adjustment.

There are 255 sharpness levels (one coarse step jumps 10 levels).

Note: If the monitor goes blank and switches off (due to oversetting the sharpness adjustment) press the Home key to restore.

Brightness: **← →** for adjustment. There are 255 brightness levels.

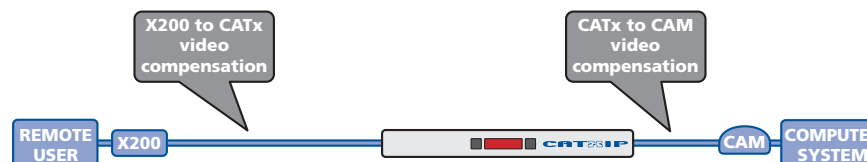


- 4 When no shadows are visible and the displayed images have crisp edges, press **Enter** to exit configuration mode and permanently save all settings.
The new compensation settings will be stored, even when power is removed or if a complete reset is initiated. These settings should not require further changes unless the cabling arrangements are altered.

Note: To adjust video compensation for the other channel, you must exit from configuration mode (as described above), select the other channel (as described in step 1) and then re-enter configuration mode (step 2).

When used with an AdderView CATx switch

The CATx switch will communicate with the X200 module and automatically add any further CATx to CAM video compensation (set within the OSD of the CATx switch) to compensate for the distance between the CATx switch and the final CAM. *Important: Ensure that the CATx to CAM compensation has been configured before adjusting the X200 video compensation.*



视频补偿（清晰度和亮度）

使用内置的X200控件，您可以调整图片的锐度和亮度以改善远程图像质量。

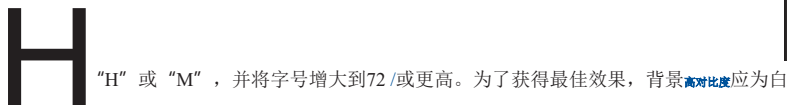
视频补偿在观看具有垂直边缘的高对比度图像时效果最佳，例如白色背景上的黑色线条。当这样做时，如果您注意到屏幕图像“模糊”或“暗”，则图像控件可能无法解决此情况。

显示合适的高对比度图像

清晰观察效果的最佳方法是

锐度和亮度调整是为了显示序、wss 类型在 ee geap ,

Op a word e or,t e h c it a llette



色，且字符应black c racter 黑色。

黑色或亮色
右侧的白色阴影
表示需要锐度调整

- 如果在该字符的右侧出现黑色阴影，则表示补偿不足。
- 字符右侧的白色阴影表示过度补偿。

注意：Word处理器方法准确且快速。然而，若需获得最精细的视频补偿，请使用最新的加法器“偏斜”测试图案程序，该程序同时显示偏斜图案和混合尺寸Hs（黑白相间及黑白相重）的部分。

要应用远程用户视频补偿

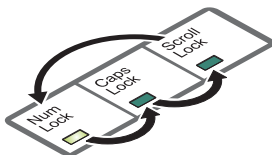
视频补偿由X200模块控制，它为两个端口中的每一个保持独立的补偿设置。

注：当与AdderView CATx交换机一起使用时，还请参见对面的章节。

- 1 首先选择要调整的端口：在连接到X200远程模块的键盘上，同时按下热键（默认情况Ctrl）和 [Shift]和...一起 [1] 对于第一个端口或 [2] 用于第二端口。

- 2 现在进入视频配置模式：在同一键盘上同时按下热键和

三个键盘指示灯（“Num Lock”、“Caps Lock”和“Scroll Lock”）现在将开始按顺序闪烁。序列的速度指示当前应用的锐度调整的级别：速度越慢，所应用的锐度级别就越低。

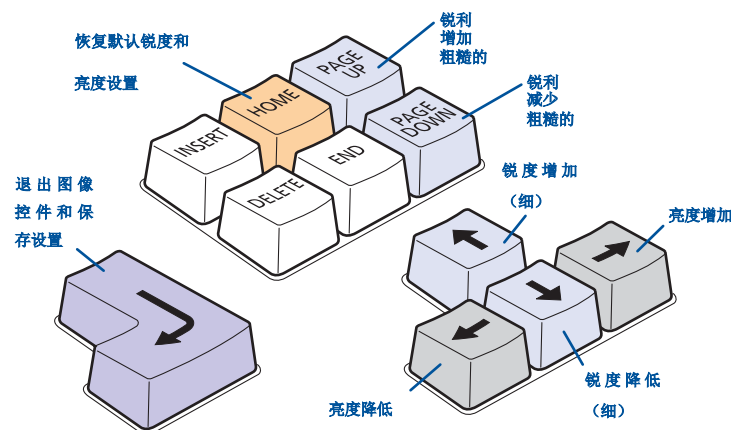


- 3 查看显示的屏幕图像时，请使用以下按键调整控制：

锐利↑↓用于微调，Page Up/Page Down用于粗调。

有255个锐度级别（一个粗调步长跨越10个级别）。**注意：**如果显示器变黑并关机（由于过度设置锐度调节），请按Home键以恢复。

亮度☐☐可调节。有255个亮度级别。



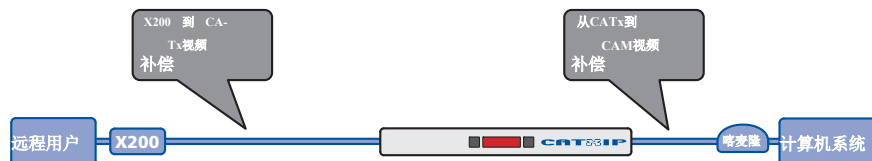
- 4 当看不到阴影且显示的图像具有清晰的边缘时，请按 [Exit] 退出配置模式并永久保存所有设置。

即使断电或启动完全复位，新的补偿设置也将被保存。除非电缆布置发生改变，否则这些设置不应需要进一步更改。

注：要调整其他通道的视频补偿，您必须退出配置模式（如上所述），选择其他通道（如步骤1所述），然后重新进入配置模式（步骤2）。

与AdderView CATx交换机配合使用时

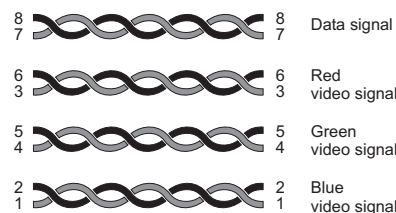
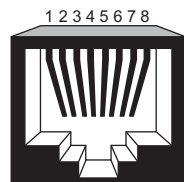
CATx交换机会与X200模块通信，并自动将任何其他CATx添加到CAM视频补偿（在CATx交换机的OSD中设置）以补偿CATx交换机与最终CAM之间的距离。**重要提示：**请确保在调整X200视频补偿之前，已配置好CATx到CAM补偿。



Video skew adjustment (X200AS models only)

The category 5, 5e and 6 cabling supported by the AdderView CATx consists of four pairs of wires per cable. Three of these pairs are used to convey red, green and blue video signals to the remote video monitor. Due to the slight difference in twist rate between these three pairs, the red, green and blue video signals may not arrive at precisely the same time. This is visible as separate colour shadows on high contrast screen images and is particularly apparent when using higher screen resolutions and some types of category 5e cables.

To alleviate this situation, the Adder X200AS modules provide internal skew adjustment that can help to rectify the situation. The skew adjustment works by delaying or advancing the timing of any of the red, green or blue colour signals so that they are all delivered to the monitor at precisely the same time. For best results, the "TESTpatterns.exe" program downloadable from www.adder.com is the most accurate way of setting skew as the red, green and blue lines are rendered exactly on the screen as single pixel wide lines. Alternatively, you can create your own skew pattern using a standard image creation package, as detailed opposite.

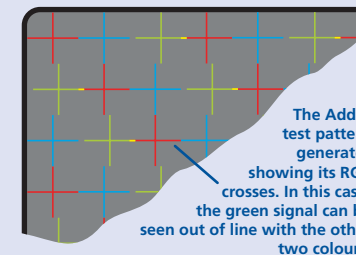


To use skew adjustment

- 1 Display a skew pattern on the appropriate computer. You can either use the free Adder skew pattern or create your own:

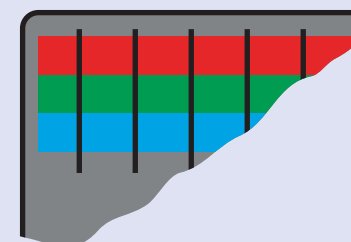
To obtain and run the free Adder test pattern generator

- 1 Visit www.adder.com.
- 2 Click the **PRODUCTS** heading and then choose **Management Software**.
- 3 From the list of software utilities, choose the **ADDER Test Pattern Generator** option.
- 4 Click the **Downloads** tab and choose the **ADDER Test Pattern Generator** option to download the utility.
- 5 Unzip the downloaded file and run the **TESTpatterns.exe** file.
- 6 Click the **SKEW** option.



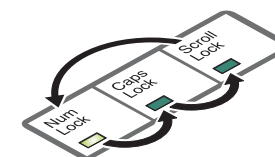
Creating a skew test pattern

- i Run any image creation/editing application, such as the Paint program supplied with Windows.
- ii Using the image application create three stacked horizontal rectangles (one red, one green and one blue) that fill the width of the screen.
- iii Draw a vertical black line down across the coloured bars and then repeat this vertical line at intervals along the width of the coloured bars. These lines create breaks across the colours and give you more opportunities to view the horizontal position of each colour relative to the others.



- 2 On the keyboard connected to the X200AS, simultaneously, press the hotkeys (by default, **Ctrl** and **Shift**) along with  to enter configuration mode.

The three keyboard indicators ('Num Lock', 'Caps Lock' and 'Scroll Lock') will now begin to flash in sequence.



CONTENTS

WELCOME

INSTALLATION
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FURTHER
INFORMATION

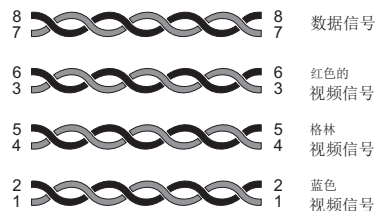
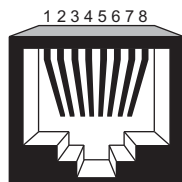
视频倾斜调整（仅限X200AS型号）

由AdderView CATx支持的第5类、5e类和6类电缆每根电缆包含四对导线。其中三对导线用于将红色、绿色和蓝色视频信号传输到远程视频监视器。由于存在细微差别

在这三对线之间的扭转率中，红色、绿色和蓝色视频信号可能不会精确地同时到达。这在高对比度的屏幕图像上可见为单独的颜色阴影，并且在使用更高分辨率的屏幕和某些类型的5e类电缆时特别明显。

为缓解这种情况，Adder X200AS模块提供内部倾斜调整，可帮助纠正这种情况。倾斜调整通过延迟或提前红色、绿色或蓝色颜色信号的时序来实现，以便将它们全部传输到监视器

在完全相同的时间。为了获得最佳效果，从www.adder.com下载的“TESTpatterns.exe”程序是设置倾斜度最准确的方法，因为红、绿、蓝线条在屏幕上呈现为单像素宽的线条。或者，您可以使用标准图像创建软件来创建自己的倾斜图案，具体方法如下所示。

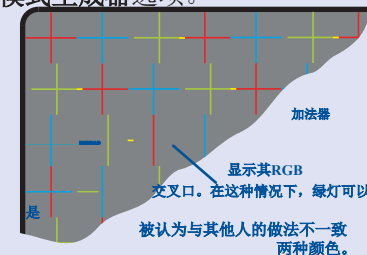


要使用偏移调整

- 1 在相应的计算机上显示倾斜模式。您可以使用免费的Adder倾斜模式，也可以创建自己的倾斜模式：

获取并运行免费的Adder测试模式生成器

- 1 参观www.adder.com。
- 2 单击“产品”标题，然后选择“管理软件”。
- 3 从软件实用程序列表中，选择**ADDER测试模式生成器**选项。
- 4 单击“下载”选项卡，选择“**ADDER测试模式生成器**”选项下载该实用程序。
- 5 解压缩下载的文件并运行该TESTpatterns.exe文件。
- 6 单击“SKEW”选项。

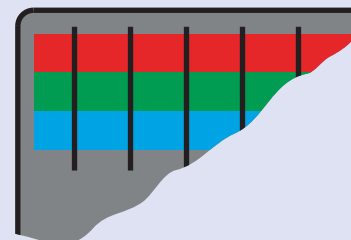


创建倾斜测试图案

i运行任何图像创建/编辑应用程序，例如Windows附带的Paint程序。

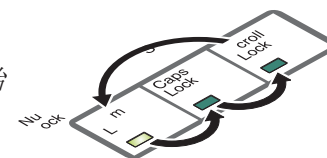
ii使用图像应用程序创建三个堆叠的水平矩形（一个红色、一个绿色和一个蓝色），它们填满屏幕的宽度。

iii在彩色条上画一条垂直的黑线，然后沿着彩色条的宽度间隔重复这条垂直线。这些线条会在颜色之间形成断点，让你有更多机会观察每种颜色相对于其他颜色的水平位置。



- 2 在连接到X200AS的键盘上，同时按热键（默认情况下，Ctrl和Shift和...一起）进入配置方式

三个键盘指示灯（“Num Lock”，“大写锁定”和“滚动锁定”）现在将开始按顺序闪烁。



内容

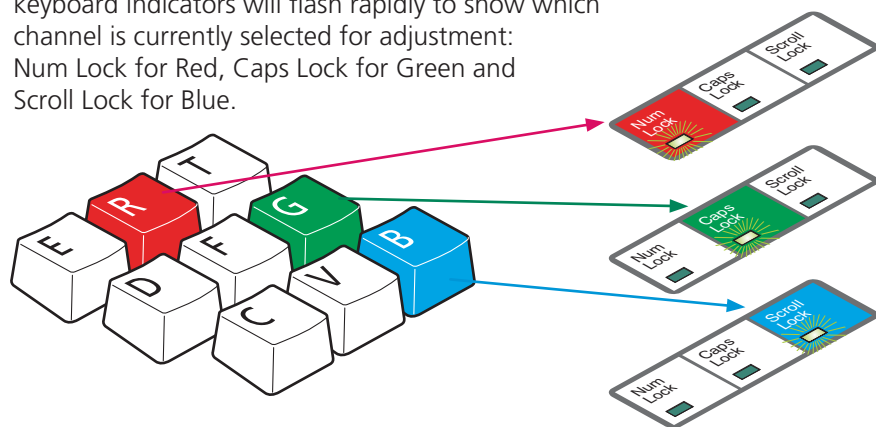
欢迎

安装
& 操作

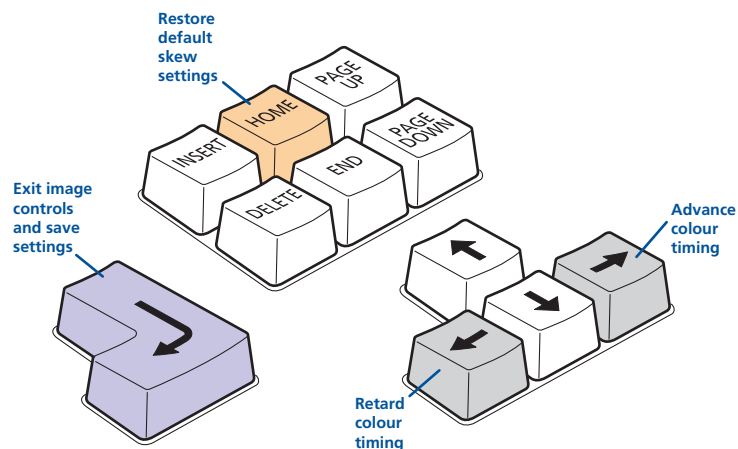
特别版
配置

其他
资料

- 3 As appropriate, press either the R, G or B keyboard keys to select the appropriate colour channel. Corresponding keyboard indicators will flash rapidly to show which channel is currently selected for adjustment: Num Lock for Red, Caps Lock for Green and Scroll Lock for Blue.



- 4 Press the and keys to retard or advance the timing of the selected colour channel respectively. On screen you will see a change in the position of the selected colour crosses (or colour bars) in relation to the other two.



- 5 When the selected colour crosses (or colour bars) are correctly positioned, press to exit that colour channel. The keyboard indicators will return to flashing in sequence.
- 6 If required, repeat steps 3 to 5 to select and adjust any colour channel until the vertical lines of the red, green and blue crosses are all aligned.
- 7 When all colours are correctly aligned on all video channels, press to exit configuration mode and permanently save all settings.

Note: Once you have made the skew adjustments, it may be necessary to re-adjust the image controls to attain optimum screen images.

Miscellaneous settings

The following are configuration settings within the modules that are not covered in other sections of this guide. These can be achieved once within configuration mode by pressing the indicated keys:

Report X200-series firmware version -

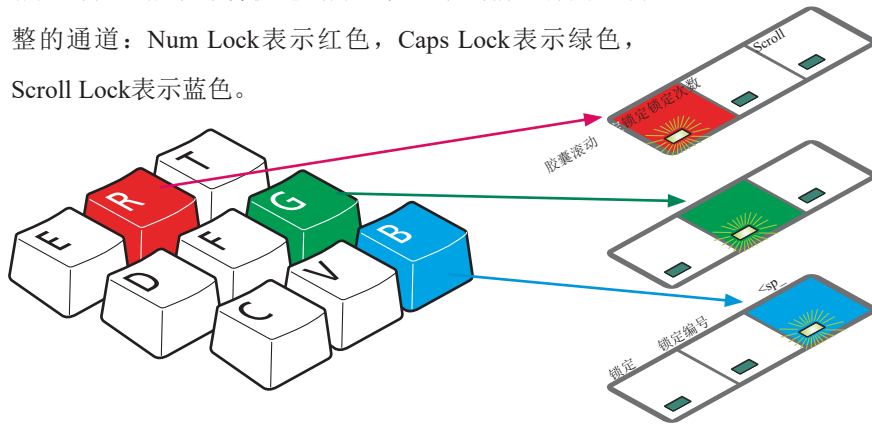
Before initiating this command, ensure that the system is running an application that can display typed keys as screen characters - e.g. a word processor or Windows Notepad. The current firmware version will be written to the application in the form of the letter 'V' followed by three numbers - for example V201 means version 2.01.

Reset all configuration options to default states -

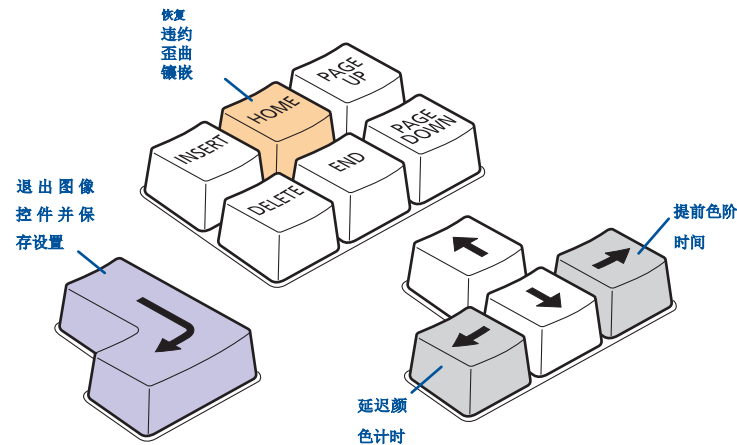
Returns all user configurable options to the settings that are installed at manufacture. The password will be cleared, however, any current image control settings or skew adjustments will not be reset.

- 3 根据需要，按R、G或B键盘键以选择适当的颜色通道。

相应的键盘指示灯将快速闪烁，以显示当前选择用于调整的通道：Num Lock表示红色，Caps Lock表示绿色，Scroll Lock表示蓝色。



- 4 按下  以及  键，分别用于延迟或提前选定颜色通道的时序。在屏幕上，您会看到选定颜色十字（或颜色条）相对于另外两个的颜色位置的变化。



- 5 当所选颜色交叉（或色条）被正确定位时，按下  退出该颜色通道。
键盘指示灯将按顺序重新开始闪烁。
- 6 如果需要，重复步骤3至5选择并调整任何颜色通道，直到红色、绿色和蓝色十字的垂直线全部对齐。
- 7 当所有视频通道上的颜色正确对齐时，按下  退出配置模式并永久保存所有设置。

注意：完成倾斜调整后，可能需要重新调整图像控件以获得最佳屏幕图像。

其他设置

以下是在本指南的其他章节中未涵盖的模块内的配置设置。这些设置可以通过在配置模式下按指定键来实现：

报告X200系列固件版本

在启动此命令之前，请确保系统正在运行一个可以将输入的键显示为屏幕字符的应用程序——例如文字处理器或Windows记事本。当前固件版本将以字母“V”后跟三个数字的形式写入应用程序——例如V201表示版本2.01。

将所有配置选项重置为默认状态

将所有用户可配置选项返回到制造时安装的设置。密码将被清除，但是，任何当前图像控制设置或倾斜调整不会重置。

Performing flash upgrades

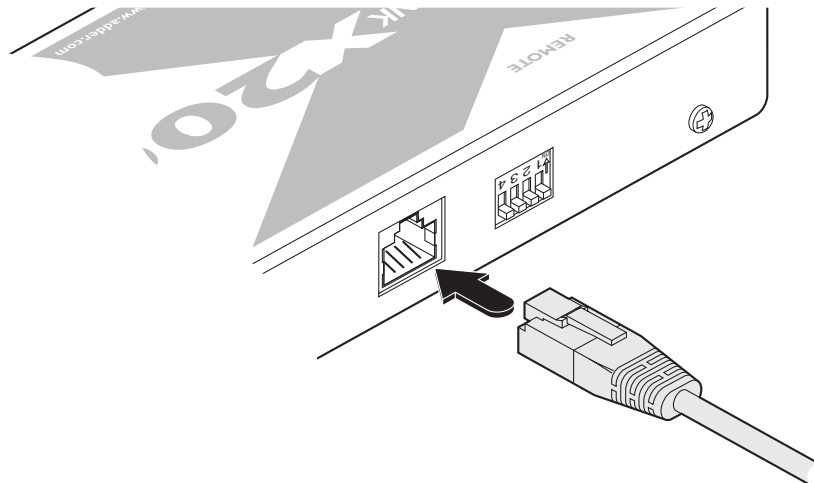
The Adder X200 modules and CAMs are fully reconfigurable via flash upgrades using the KVM Firmware Uploader utility.

During the upgrade you will be required to connect the X200 module directly to the serial port of a computer system using an optional cable (Adder part number: CAB-9DF-RJ9-2M). The upgrade utility will update the firmware of the X200 and also temporarily transform it so that it can update the CAM unit. Once completed, the X200 will return to its normal operation.

The KVM Firmware Uploader utility is available from the Adder Technology website (www.adder.com) and allows you to check the current revision of the X200 firmware.

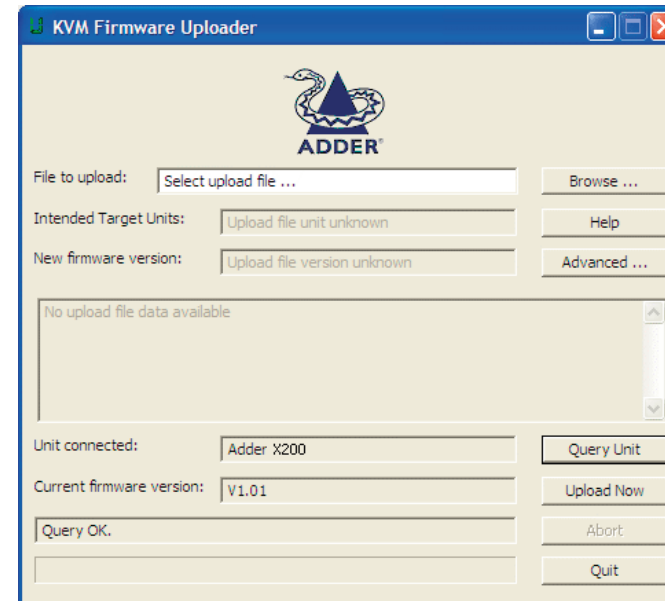
To perform a flash upgrade

- 1 Remove power from the X200 module. If one or both CAMs also need to be upgraded, ensure that they are connected to the X200 in the usual manner.
- 2 On the side of the X200 module, place switch 1 into its ON position.
- 3 Use the optional upgrade cable to link between the socket adjacent to the X200 switch block and a vacant RS232 9-way serial port of the computer system to be used.



- 4 Apply power to the X200 module. The green indicator on the **TO LOCAL 1** socket will flash to indicate upgrade mode.

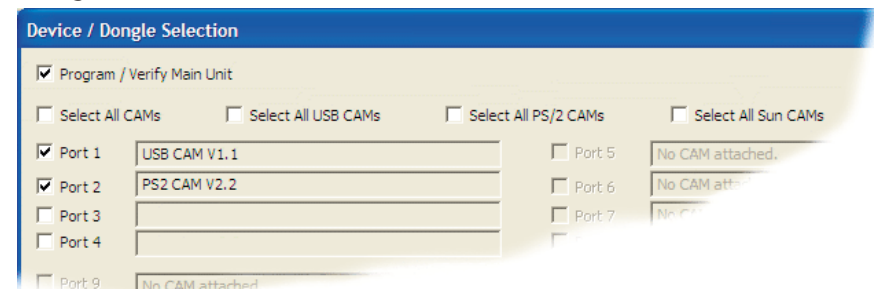
- 5 On the computer, select the KVMUploader icon to run the upgrade utility. The KVM Firmware Uploader dialog will be displayed:



- 6 Click the *Query Unit* button to confirm that communication is possible with the X200 and to establish the existing firmware details.

Note: The computer to which each CAM is connected must be powered before the respective CAM can be accessed.

If the application cannot contact the X200 module, recheck the connection cable and click the *Advanced...* button to check that the correct serial port is being used. Change the serial port within the *Advanced* section, if necessary. The results of the unit query will be displayed in the Device/Dongle Selection dialog:



The type and firmware revision of each discovered CAM will be displayed alongside the port number to which it is connected.

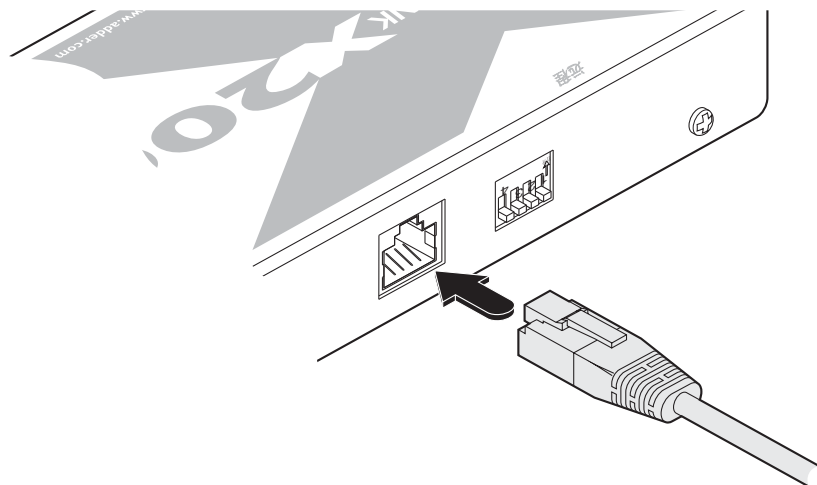
执行闪存升级

通过使用KVM固件上传器工具，可对Adder X200模块和CAM进行完全可重新配置的闪存升级。

升级过程中，您需要使用可选电缆（Adder部件号：CAB-9DF-RJ9-2M）将X200模块直接连接到计算机系统的串行端口。升级工具将更新X200的固件，并对其进行临时转换，以便更新CAM单元。完成后，X200将恢复正常操作。KVM固件上传器实用程序可从Adder Technology网站（www.adder.com）获得，该程序允许您检查X200固件的当前版本。

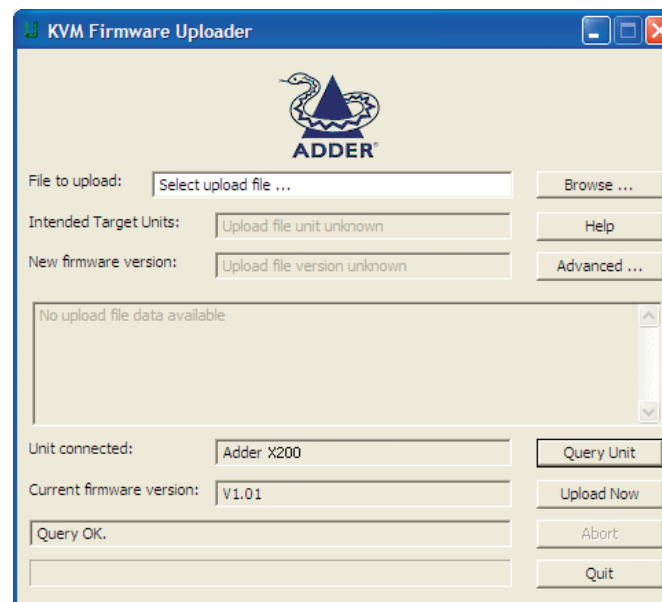
执行闪存升级

- 1 切断X200模块的电源。如果还需要升级一个或两个CAM，请确保以常规方式将它们连接到X200。
- 2 在X200模块的一侧，将开关1调至ON位置。
- 3 使用可选升级电缆，将X200交换机模块旁边的插座与待用计算机系统的空闲RS232 9路串行端口连接起来。



- 4 为X200模块通电，TO LOCAL 1插槽上的绿色指示灯将闪烁，以指示升级模式。

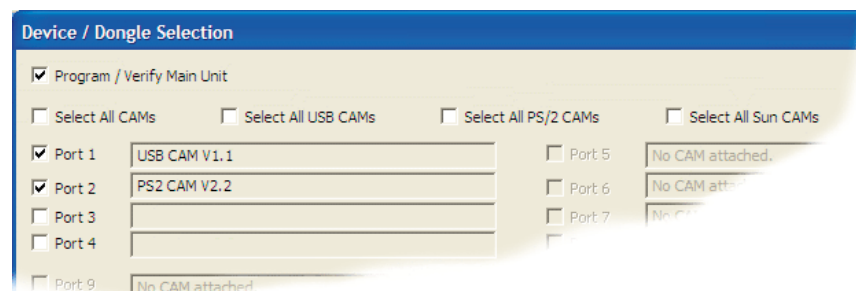
- 5 在计算机上，选择KVMUploader图标以运行升级实用程序。将显示KVM固件上传器对话框：



- 6 单击查询单元按钮以确认可以与X200通信，并建立现有固件详细信息。

注：必须先为每个CAM所连接的计算机供电，然后才能访问相应的CAM。

如果应用程序无法联系X200模块，请重新检查连接电缆，并单击“高级..”按钮以检查是否使用了正确的串行端口。如有必要，请更改“高级”部分中的串行端口。设备/适配器选择对话框中将显示单元查询结果：



将显示所发现的每个CAM的类型和固件修订版本，以及它所连接的端口号。



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- 7 Using the Device/Dongle Selection dialog determine which items should receive a firmware upgrade:
 - Use the *Program / Verify Main Unit* option to include or exclude the X200 module itself.
 - Use the *Select All CAMs* option to upgrade every discovered CAM.
 - Use the *Select All USB / PS2 / Sun CAMs* options to upgrade only CAMs of a certain type.
 - Use the individual port options to select particular CAM devices to upgrade.

When the required options have been selected, click OK.

Note: Approximate upgrade times are: Adder X200 module = 4½ minutes; each selected CAM = 20 seconds.

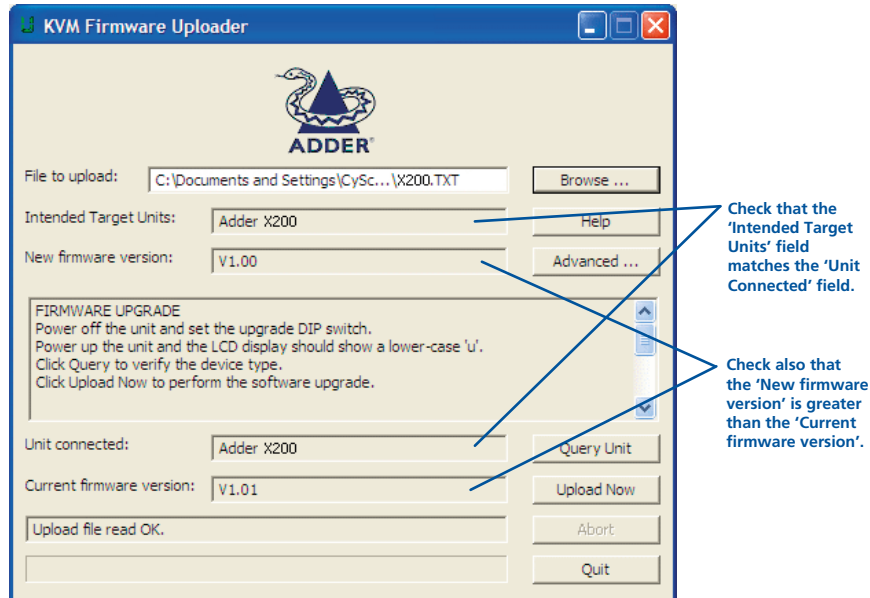
- 8 From the main KVM Firmware Uploader dialog, click the *Browse...* button and select the upgrade file that is appropriate to your AdderView CATx unit:

Adder X200: X200_Vxxx

where Vxxx is the upgrade file version number.

The upgrade file details will be displayed within the dialog.

IMPORTANT: Check that the 'Intended Target Units' field matches the 'Unit Connected' field. If these fields do not match then you may have an incorrect upgrade file, check with Adder Technology Ltd before proceeding. Check also that the 'New firmware version' is greater than the 'Current firmware version'.



- 9 To begin the upgrade process, click the Upload Now button. The progress will be shown within the dialog. Should you decide not to continue with the upload at any stage, click the Abort button; response to this is usually immediate, however, during an erase command, the upload will not be aborted until the erase is complete (this may take a few seconds).
- 10 Change the X200 switch 1 to the OFF position and cycle the power. When the power is re-applied the X200 module and any upgraded CAMs will operate using the new firmware.

Issues to consider when performing flash upgrades

The upgrade program rewrites the Adder X200 firmware code. If the upgrade process is interrupted then the X200 will have invalid code and will not be able to operate. It is therefore good practice to ensure that the upgrade process is always fully completed. A partial or failed upgrade may be rectified by performing another upgrade. If the upgrade process is interrupted accidentally then you should immediately repeat the upgrade process without moving switch 1 from the upgrade (ON) position. Switch 1 forces the X200 into flash upgrade mode and prevents the upgraded code from being run. Running faulty or partially upgraded code may have unpredictable results and may damage your Adder X200 or computing equipment.

7 使用“设备/适配器选择”对话框确定哪些项目应接受固件升级：

- 使用“程序/验证主机”选项可包括或排除X200模块本身。
- 使用“选择所有CAM”选项可升级每个发现的CAM。
- 使用“选择所有USB / PS2 / Sun CAM”选项，可以仅升级特定类型的CAM。
- 使用单个端口选项选择要升级的特定CAM设备。

选择所需选项后，单击“确定”。

注：近似升级时间是：Adder X200 模块=4½ 分钟；每个选定的CAM = 20 秒。

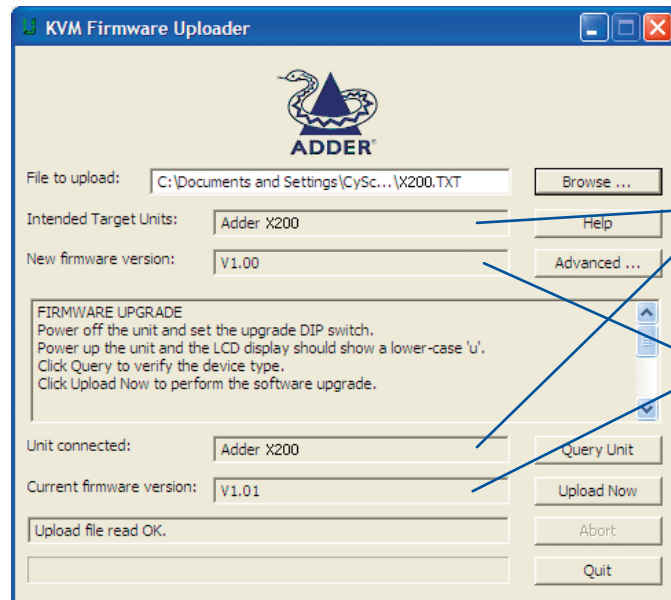
8 在主KVM固件上载器对话框中，单击浏览...按钮，然后选择适合于您的AdderView CATx单元的升级文件：

Adder X200: X200_Vxxx

其中，Vxxx是升级文件版本号。

将在此对话框中显示升级文件的详细信息。

重要提示：检查“目标设备”字段是否与“已连接的设备”字段匹配。如果这些字段不匹配，则升级文件可能不正确，请在继续操作前与Adder Technology Ltd联系。同时检查“新固件版本”是否大于“当前固件版本”。



检查“预期目标单位”字段是否与“连接的单位”字段匹配。

同时，检查“新固件版本”是否大于“当前固件版本”。

9 要开始升级过程，请单击“立即上载”按钮。进度将在对话框中显示。

如果您决定在任何阶段不继续上载，请单击“中止”按钮；对此的响应通常是立即的，但是，在擦除命令期间，上载将不会被中止，直到擦除完成（这可能需要几秒钟）。

10 将X200交换机1切换到关闭位置，然后循环通电。重新通电后，X200模块和任何升级的CAM都将使用新固件运行。

执行闪存升级时要考虑的问题

升级程序会重写Adder X200的固件代码。若升级过程中断，X200将存储无效代码且无法正常运行。因此，务必确保升级过程始终完整完成。若升级不完整或失败，可通过重新升级来修正。若意外中断升级，应立即重复操作且保持开关1处于升级（开启）状态。此时开关1会强制X200进入闪存升级模式，阻止已升级代码运行。若运行故障或未完成升级的代码，可能导致不可预测的结果，甚至损坏Adder X200或相关计算设备。

Further information



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

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www.adder.com

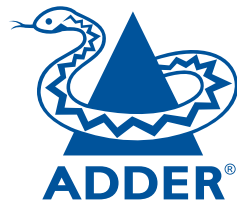
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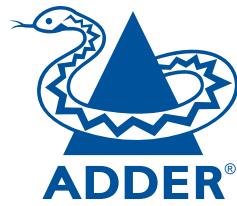
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