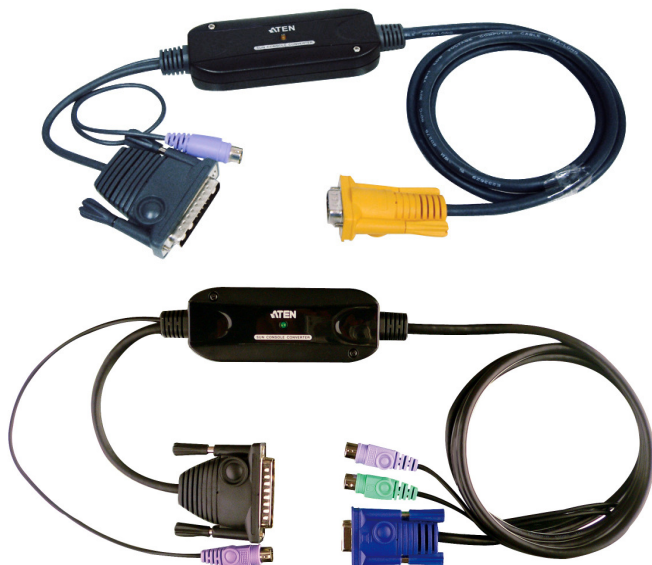




Sun Console Converter
CV-130A / CV-130B User Manual



www.aten.com

EMC Information

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE

STATEMENT: This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ Reorient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- ◆ Consult the dealer or an experienced radio/TV technician for help.
- ◆

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

KCC Statement

유선 제품용 / B 급 기기 (가정용 방송 통신 기기)
이 기기는 가정용 (B 급) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

RoHS

This product is RoHS compliant.



User Information

Online Registration

Be sure to register your product at our online support center:

International	http://eservice.aten.com
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Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988 1-949-428-1111

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

Package Contents

- ♦ 1 CV-130A / CV-130B Sun Console Converter Cable
- ♦ 1 User Instructions

Note: 1. Check to make sure that all the components are present and that nothing got damaged in shipping. If you encounter a problem, contact your dealer.

2. Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit, and/or any of the devices connected to it.

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About this Manual

This user manual is provided to help you get the most from the CV-130A / CV-130B unit. It covers all aspects of installation, configuration, and operation. An overview of the information found in the manual is provided below.

Chapter 1, *Introduction* introduces you to the Sun Console Converter. Its purpose, features, installation considerations, and panel components are presented and described.

Chapter 2, *Installation* describes the steps that are necessary to quickly and safely set up your installation.

Appendix provides a list of safety instructions and precautions, contact information for ATEN technical support, product specifications, and other technical information.

Note:

- ♦ Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit or any connected devices.
 - ♦ ATEN regularly updates its product documentation for new features and fixes. For an up-to-date CV-130A / CV-130B documentation, visit <http://www.aten.com/global/en/>
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Conventions

This manual uses the following conventions:

- `Monospaced` Indicates text that you should key in.
- [] Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1. Numbered lists represent procedures with sequential steps.
- ◆ Bullet lists provide information, but do not involve sequential steps.
- Indicates selecting the option (on a menu or dialog box, for example), that comes next. For example, Start → Run means to open the *Start* menu, and then select *Run*.
-  Indicates critical information.

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

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Chapter 1

Introduction

Overview

The CV-130A / CV-130B are PS/2 to Sun interface converters. They translate PS/2 keyboard, mouse, and monitor signals to Sun keyboard, mouse, and monitor signals, allowing you to easily and conveniently integrate legacy Sun servers into an IBM compatible KVM (keyboard, video, mouse) installation. All computers on the installation can be controlled from a single PC style console.

The CV-130A / CV-130B fully support ATEN PS/2 KVM switches. ATEN KVM switches are designed in two basic types: Those that use specially designed 15 pin Special High Density connectors (SPHD-15) to transmit the KVM data between the switch to the computers; and those that use standard PS/2 and VGA connectors.

The CV-130A / CV-130B are identical in their functions, except that the CV-130A is for use with the SPHD-15 switches, whereas the CV-130B is designed for PS/2-VGA switches.

The CV-130A / CV-130B are designed to communicate with legacy Sun equipment. They both have 13W-3 connectors for the Sun video port, and Mini-DIN-8 connectors for the keyboard and mouse signals.

Features

- ♦ Translates PS/2 keyboard, video, and mouse signals to legacy Sun keyboard, video, and mouse signals
- ♦ Compatible with Sun systems
- ♦ Compatible with ATEN PS/2 KVM switches & PS/2 console extenders
- ♦ Keyboard and mouse emulation - computers boot even when the KVM focus is elsewhere
- ♦ Supports PS/2 mice and Microsoft Intellimouse
- ♦ Supports PS/2 keyboard and mouse hot plugging
- ♦ External power adapter not required
- ♦ Composite Sync Video support
- ♦ Supports high resolution video - including Sun 1152 x 900, 1280 x 1024, and 1600 x 1200

Chapter 2

Installation



1. Important safety information regarding the placement of this device is provided on page 7. Please review it before proceeding.
2. Make sure that power to all the devices you will be installing has been turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.

Hardware Installation

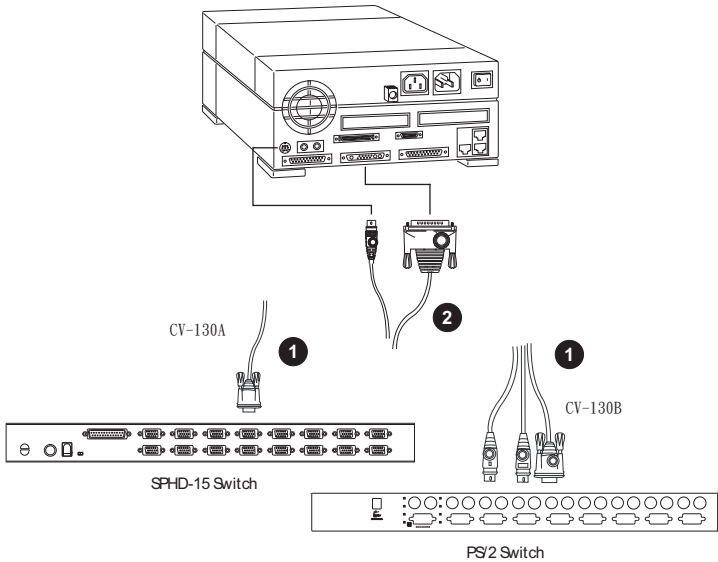
Installation is simply a matter of plugging in the cables. Refer to the installation diagram as you perform the steps below:

Note: Make sure all the equipment to be connected is powered off and properly grounded.

1. Plug the KVM switch end of the converter cable into any available CPU port on the KVM switch.
 - ♦ For SPHD-15 type switches, plug in the CV-130A's single SPHD-15 connector.
 - ♦ For PS/2 type switches, plug the CV-130B's keyboard, mouse, and monitor connectors into their respective ports in the CPU section of the switch.

Note: SUN workstations use a three button mouse. To fully emulate its functions, you need to use a three button PS/2 mouse.

2. Plug the other end of the cable into the Sun station's keyboard and video ports.



Sun Keyboard Emulation

The PS/2 (101/104 key) keyboard can emulate the functions of the Sun keyboard. The corresponding functions are shown in the table below.

PC Keyboard	Sun Keyboard
[Ctrl] [F1]	Stop
[Ctrl] [F2]	Again
[Ctrl] [F3]	Props
[Ctrl] [F4]	Undo
[Ctrl] [F5]	Front
[Ctrl] [F6]	Copy
[Ctrl] [F7]	Open
[Ctrl] [F8]	Paste
[Ctrl] [F9]	Find
[Ctrl] [F10]	Cut
[Ctrl] [1]	
[Ctrl] [2]	
[Ctrl] [3]	
[Ctrl] [4]	
[Ctrl] [H]	Help
	Compose
	
R_Alt	Alt Grapher

Note: When using [Ctrl] key combinations, press and release the first key (Ctrl), then press and release the activation key.

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Safety Instructions

- ♦ Read all of these instructions. Save them for future reference.
- ♦ This device is for indoor use only.
- ♦ Follow all warnings and instructions marked on the device.
- ♦ Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- ♦ Do not use the device near water.
- ♦ Do not place the device near, or over, radiators or heat registers.
- ♦ The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- ♦ The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- ♦ Never spill liquid of any kind on the device.
- ♦ Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- ♦ The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- ♦ Avoid circuit overloads. Before connecting equipment to a circuit, know the power supply's limit and never exceed it. Always review the electrical specifications of a circuit to ensure that you are not creating a dangerous condition or that one doesn't already exist. Circuit overloads can cause a fire and destroy equipment.
- ♦ The device is designed for IT power distribution systems with 230V phase-to-phase voltage.
- ♦ To prevent damage to your installation, it is important that all devices are properly grounded.
- ♦ The device is equipped with a 3-wire grounding type plug. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not attempt to defeat the purpose of the grounding-type plug. Always follow your local/national wiring codes.

- ◆ Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- ◆ If an extension cord is used with this device make sure that the total of the ampere ratings of all products used on this cord does not exceed the extension cord ampere rating. Make sure that the total of all products plugged into the wall outlet does not exceed 15 amperes.
- ◆ To help protect your system from sudden, transient increases and decreases in electrical power, use a surge suppressor, line conditioner, or un-interruptible power supply (UPS).
- ◆ Position system cables and power cables carefully; Be sure that nothing rests on any cables.
- ◆ Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.
- ◆ Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- ◆ If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
 - ◆ The power cord or plug has become damaged or frayed.
 - ◆ Liquid has been spilled into the device.
 - ◆ The device has been exposed to rain or water.
 - ◆ The device has been dropped, or the cabinet has been damaged.
 - ◆ The device exhibits a distinct change in performance, indicating a need for service.
 - ◆ The device does not operate normally when the operating instructions are followed.
- ◆ Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.
- ◆ Do not connect the RJ-11 connector marked "UPGRADE" to a public telecommunication network.

Technical Support

Technical support is available both by email and online (with a browser over the web):

International

- ♦ For online technical support – including troubleshooting, documentation, and software updates: <http://support.aten.com>
- ♦ For telephone support, see *Telephone Support*, page iii:

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	http://www.aten-usa.com/support
Telephone Support		1-888-999-ATEN ext 4988 1-949-428-1111

When you contact us, please have the following information ready beforehand:

- ♦ Product model number, serial number, and date of purchase.
- ♦ Your computer configuration, including operating system, revision level, expansion cards, and software.
- ♦ Any error messages displayed at the time the error occurred.
- ♦ The sequence of operations that led up to the error.
- ♦ Any other information you feel may be of help.

Specifications

Function		CV-130A	CV-130B
Connectors	To Switch	1 x SPHD-15 Male	2 x 6 Pin Mini DIN Male 1 x HDB-15 Female
	To Sun	1 x Mini-DIN-8 1 x 13W-3	
LED		1 x Power (Orange)	
Emulation		Sun Keyboard and Mouse	
Resolution		Sun specific 1152 x 900; 1280 x 1024; 1600 x 1200	
Environment	Operating Temp.	0–50°C	
	Storage Temp.	-20–60°C	
	Humidity	0–80% RH, Non-condensing	
Physical Properties	Cable Length	1.8 m	
	Housing	Plastic	
	Dimensions (L x W x H)	10.65 x 4.20 x 2.07 cm (4.19 x 1.65 x 0.81 in.)	
	Weight	0.20 kg (0.44 lb)	0.24 kg (0.53 lb)

Troubleshooting

Symptom	Possible Cause	Action
Wake up function does not work.	System not responding to mouse or keyboard input.	Press the POWER key ([Ctrl] [4]). If the system still fails to respond. Click the left and right mouse buttons at the same time or press [Esc].
Video problems.	Wrong display resolution for monitor.	Some monitors cannot support a display resolution of 1152 x 900. Set the resolution to either 1280 x 1024, or 1024 x 768.

Limited Warranty

ATEN warrants its hardware in the country of purchase against flaws in materials and workmanship for a Warranty Period of two [2] years (warranty period may vary in certain regions/countries) commencing on the date of original purchase. This warranty period includes the LCD panel of ATEN LCD KVM switches. Select products are warranted for an additional year (see *A+ Warranty* for further details). Cables and accessories are not covered by the Standard Warranty.

What is covered by the Limited Hardware Warranty

ATEN will provide a repair service, without charge, during the Warranty Period. If a product is defective, ATEN will, at its discretion, have the option to (1) repair said product with new or repaired components, or (2) replace the entire product with an identical product or with a similar product which fulfills the same function as the defective product. Replaced products assume the warranty of the original product for the remaining period or a period of 90 days, whichever is longer. When the products or components are replaced, the replacing articles shall become customer property and the replaced articles shall become the property of ATEN.

To learn more about our warranty policies, please visit our website:

<http://www.aten.com/global/en/legal/policies/warranty-policy/>

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MEMO

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.