

CONSOLE CONVERTER

For MAC

CV-160

User's Manual

Packing Checklist

- Console Converter x 1
- User's Manual x 1

Please read this manual thoroughly and follow the instruction procedures to prevent any damage to the CV-160 and/or the connecting devices.

LIMITED WARRANTY

IN NO EVENT SHALL THE DIRECT VENDOR'S LIABILITY EXCEED THE PRICE PAID FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, DISK, OR ITS DOCUMENTATION.

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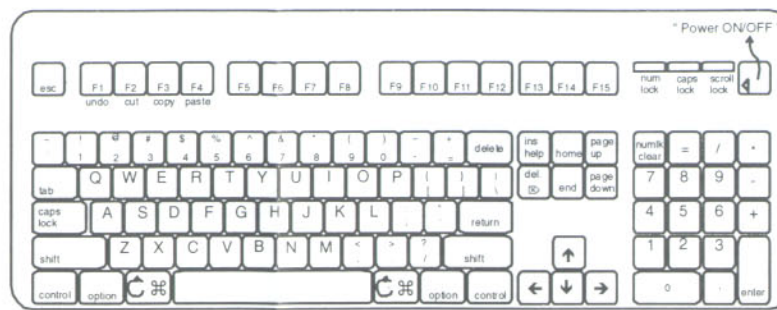


Fig. 4 MAC Standard Keyboard Layout

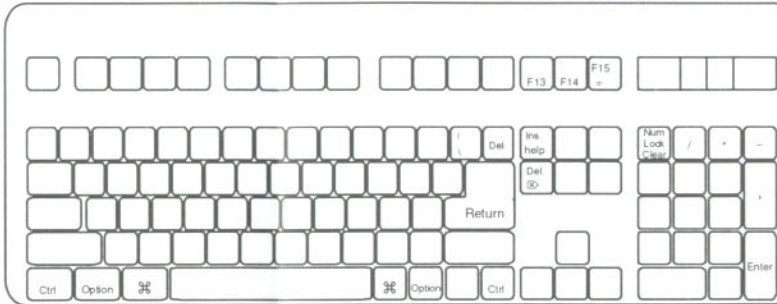


Fig. 5 PS/2 104-Key keyboard maps to Mac's keyboard

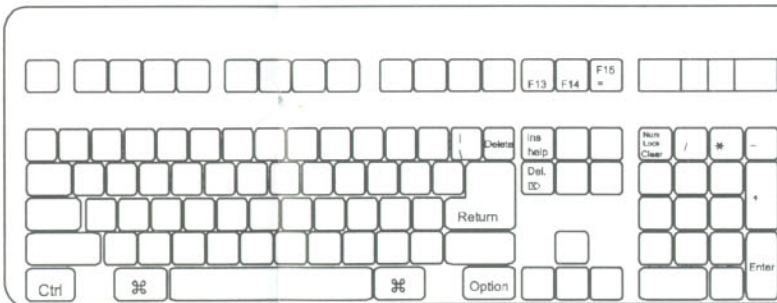


Fig. 6 PS/2 101 Key keyboard maps to Mac's keyboard

Contextual Menu Button



Click Button

PS/2 Mouse 2 Button Assignments

Contextual Menu Button



Drag & Lock Button

Click Button

PS/2 Mouse 3 Button Assignments

• Mac keyboard emulated by PS/2 keyboard

MAC	101 key	104 key
Shift	L or R_Shift	L or R_Shift
Ctrl	L_Ctrl	L or R_Ctrl
Option	R_Ctrl	L or R_WIN
⌘	L_R_Alt	L or R_Alt
F13	Prt_Sc	Prt_Sc
F14	Scroll Lock	Scroll Lock
F15	L or R_Shift & Pause	L or R_Shift & Pause
=	Pause	Pause
Power ON/OFF	CV160 Power key	CV160 Power key
Return	Enter	Enter
Delete	Back Space	Back Space
help	Ins	Ins

Table 4

PREVENTING RADIO & TV INTERFERENCE

WARNING!!! This equipment has been tested and found to comply with limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, 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:

- Reoriented or relocated 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.

INTRODUCTION

CV-160 is an IBM peripherals to Macintosh (Mac) Converter which includes the Video, Keyboard and Mouse signal converting. CV-160 allows user to connect a PS/2 Mouse, a PS/2 Keyboard and a PC used Monitor into its input connectors and converting the signals and then generating the Mac-ADB compatible signals to a Mac computer.

Besides a build-in ADB Interface for PS/2 Keyboard and Mouse, CV-160 also reserves an ADB Interface connector for other applications. CV-160 allows user to hot-plug the PS/2 Keyboard and the PS/2 Mouse at any time to operate the Mac. CV-160 supports a "Power ON/OFF" key to take place the "Power ON/OFF" key of the Mac Keyboard.

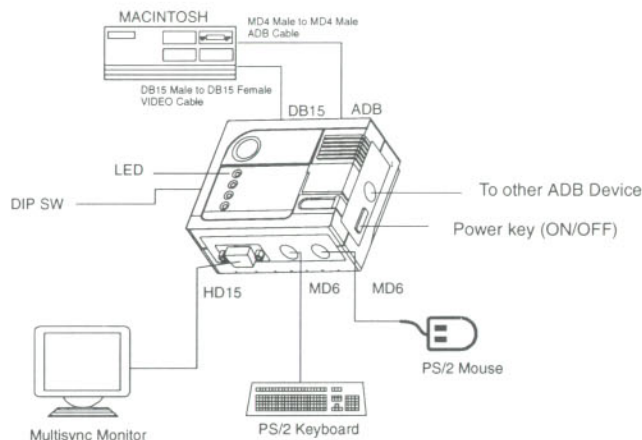


Fig. 1 CV-160 connection diagram

APPLICATION

CV-160 is compatible with the interface of CS-104, CS-122, CE-120, CV-130 and so on. Link together with the above devices provides Remote Control capabilities and Console switching functionalities for MAC, PC, and SUN station Systems.

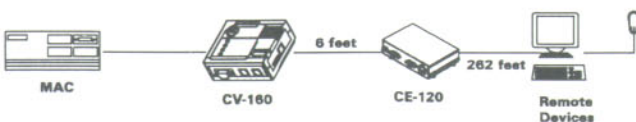


Fig. 2 CE-120 application

SPECIFICATIONS

Function	Specifications
Power Consumption	50mA (max.)
Video In Connector	DB-15 x 1, Male
Video Out Connector	HD-15 x 1, Female
ADB Interface	Mini DIN 4-pin x 2, Female
PS/2 Keyboard Connector	Mini DIN 6-pin x 1, Female
PS/2 Mouse Connector	Mini DIN 6-pin x 1, Female
DIP Switch	8 bits x 1
Power ON/OFF	Push Button x 1
Status LED	Red LED x 1
Operation Temp.	5°C ~ 40°C
Stock Temp.	-20°C ~ 60°C
Humidity	0% ~ 80%
Enclosure	Plastic
Weight	130g
Dimension (LxWxH)	100 x 80 x 36 (mm)

INSTALLATION

1.DEVICE CONNECTION:

- 1) Mac must be powered off before cable connection for safety and peripheral enumeration.
- 2) Connect the CV-160 to a MAC computer, a PS/2 keyboard, a PS/2 Mouse and a PC Monitor, see figure 1.
- 3) Press CV-160 POWER ON/OFF key to turn on the Mac.

Optional Connection :

- 4) Remote control with CE-120, please refer to the User's Manual of CE-120, see figure 2.
- 5) Console switch with CS-104, please refer to the User's Manual of CS-104, see figure 3.

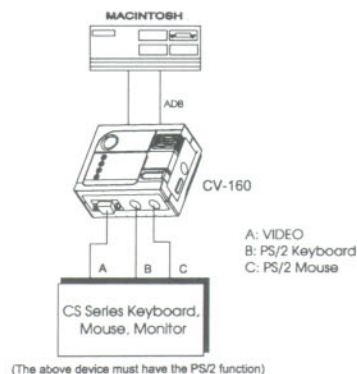


Fig. 3 CS-Series application

• Relativity Product List

CS-104	CS-122	CS-1016	CS-1008	CS-124
CS-128	CS-221	CE-120	CV-130	

For detail information of above products, please contact your local dealer.

2.VIDEO:

CV-160 can be divided into three portions, Video, Keyboard and Mouse. VIDEO Modes can be selected by setting a DIP Switch, see Table 1.

DIP Switch Setting						Model	Horizontal (KHz)	Vertical (Hz)	Resolution (dots x lines)		
SW1	SW2	SW3	SW4	SW5	SW6						
ON						13" Color			640 x 480		
ON	ON					NTSC (Under)			512 x 384		
ON		ON				12" Color	24.48	60.15	512 x 384		
ON	ON	ON				21" Color	68.7	75	1152 x 870		
			ON			NTSC (Over)			640 x 480		
				ON		21" Mono			1152 x 870		
					ON	Portrait			640 x 870		
					ON	19" Color	60.2	75	1024 x 768		
					ON	16" Color	49.7	75	832 x 624		
					ON	PAL			640 x 480		
					(*)1	ON	ON	VGA	31.5	60	640 x 480
						ON	ON	SVGA	35.2	50	800 x 600
ON					(*)2	ON	ON	VGA	35	67	640 x 480
ON						ON	ON	SVGA	49	75	832 x 624

Table 1

! Never set up DIP switch when Mac is powered.

NOTE : (*1) When SW5=ON and SW6=ON, the VGA and SVGA resolutions are selected in control panel/monitor.

(*2) When SW1=ON, SW5=ON and SW6=ON, the VGA and SVGA resolutions are selected in control panel/monitor.

3.KEYBOARD:

The keyboard settings are listed in Table 2.

The keyboard mapping from Mac keyboard to either PS/2 101 key or PS/2 104 key are listed in Table 4.

Figure 4 to figure 6 are the keyboard layouts for Mac, PS/2 104 key and PS/2 101 key respectively.

SW 7	SETTING
ON	PS/2 101 KEY
OFF	PS/2 104 KEY

Table 2

4.Mouse:

The Mouse speed settings are listed in Table 3.

SW 8	SETTING
ON	Mouse Hi Speed
OFF	Mouse Normal Speed

Table 3