CONSOLE CONVERTER
For MAC
CV-160

User's Manual

Packing Checklist

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

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

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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.
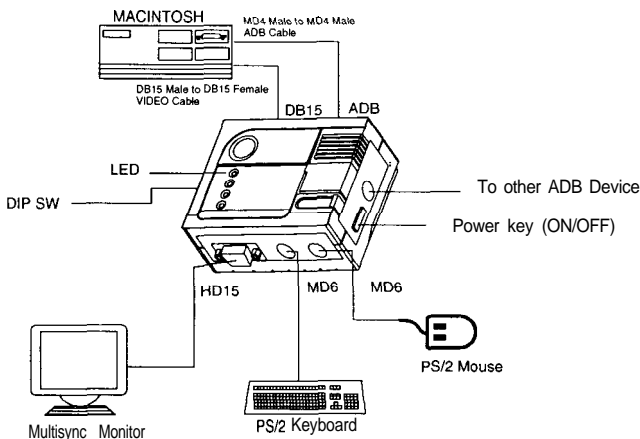

Fig. 1 CV-160connection diagram

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.
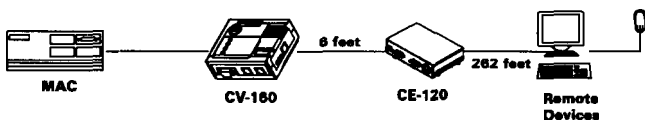

Fig. 2 CE-120 application

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 Connection	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
Dimensions (LxWxH)	100 x 80x 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.
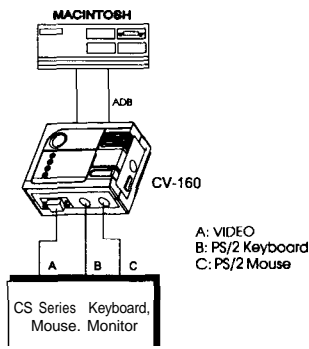
Fig. 3 CS-Series application

• Relativity *Product List*

cs-104	cs-122	CS-1016	CS-1008	CS-124
	CS-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									
SW1	SW2	SW3	SW4	SW5	SW6	Model	Horizontal (KHz)	Vertical (Hz)	Resolution (Dots x lines)
ON						13" Color			640 x 480
ON	ON					NTSC **(Under)**			512x384
ON		ON				12" Color	24.4X	60.15	512x384
ON	ON	ON				21" Color	6X.7	75	1152x870
	ON					NTSC (Over)			640 x 480
		ON				21" Mono			1152 x 870
	ON	ON				Portrait			640 x 870
			ON	ON		19" Color	60.2	75	1024 x76X
		ON			ON	16" Color	49.7	75	832 x 624
		ON	ON	ON	PAL				640 x 480
	(*1)			ON	ON	VGA	31.5	60	640x480
				ON	ON	SVGA	35.2	50	800x600
ON	(*2)			ON	ON	VGA	3 5	67	640x480
ON				ON	ON	SYGA	49	75	832 7.624

Table 1

A **Never set** up DIP **switch when Mac is powered.**

VOTE: (*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.

TTING	
ON	**PS/2 101 KEY**
OFF	**PS/2 104 KEY**

Table 2

4. Mouse:

The Mouse speed settings are listed in Table 3.

ON	**Mouse Hi Speed**
OFF	**Mouse Normal Speed**

Table **3**
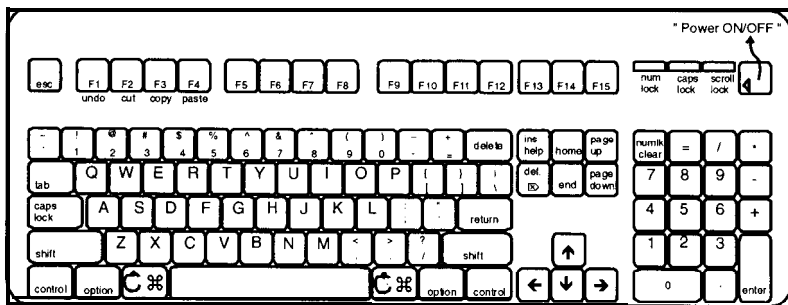
Fig. 4 MAC Standard Keyboard Layout

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
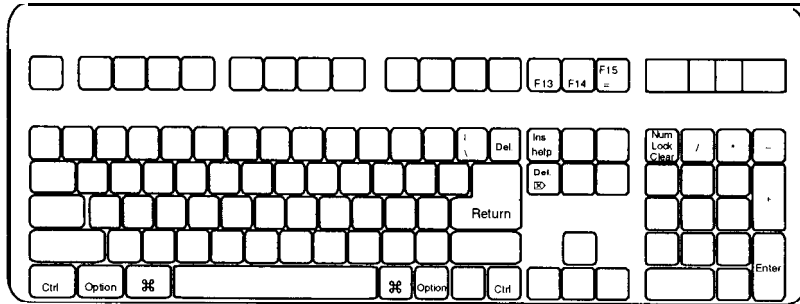
Fig. 5 PS/2 104-Key keyboard maps to Mac's keyboard
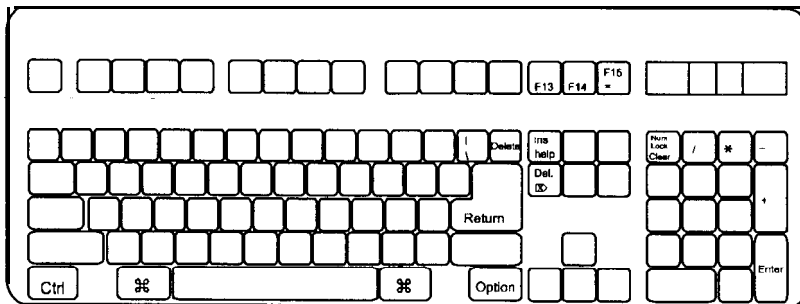
Fig. 6 PS/2 101 Key keyboard maps to Mac's keyboard

- *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_S
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
he/p	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 televisio n 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 he/p.*

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