

MASTER VIEW KVM SWITCH

4 / 8 Port SUN KVM Switch



USER MANUAL

ACS-1804
ACS-1808

2001-06-21

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Subpart J of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

2001-06-21

PACKING LIST

The complete Master View ACS-1804 / ACS-1808 package consists of:

- One ACS-1804 or ACS-1808 KVM Switch with Stacking Brackets
- One Power Adapter (DC 9V; 600mA)
- One Set of Rack Mounting Brackets
- One User Manual

Check to make sure that the unit was not damaged in shipping. If you encounter a problem, contact your dealer.

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.

©Copyright 2001 ATEN™ International Co., Ltd.
Manual Part No. PAPE-0189-100
Printed in Taiwan 06/2001

All brand names and trademarks are the registered property of their respective owners.

CONTENTS

Overview	1
Features	2
Hardware Requirements	3
Console	3
SUN System	3
Cables	3
Introduction	4
ACS-1804 Front View	4
ACS-1808 Front View	5
ACS-1804 / ACS-1808 Rear View	6
Installation	7
Before you Begin	7
Single Station Installation	7
Two Stage Installation	8
Three Stage Installation	9
Operation	11
Hot Plugging	11
Powering Off and Restarting	11
Port Selection	12
OSD Operation	13
OSD Overview	13
Port Numbering	14
OSD Navigation	15
OSD Main Menu Headings	15
The Function Keys	16
Factory Default Settings	20
OSD Security	20
Appendix	21
Master View - system Connection Tables	21
Troubleshooting	22
Specifications	23
Stacking and Mounting	24
Federal Communications Commission Statement	25
Limited Warranty	25

OVERVIEW

The Master View ACS-1804 and ACS-1808 KVM Switches are control units that allow access to multiple SUN systems from a single console (keyboard, monitor, and mouse). Before the development of the Master View, the only way to control multiple systems from a single console was through a complex and costly network. Now, with the Master View ACS-1804/ACS-1808, you can easily access multiple SUN systems in a cost effective manner.

A single Master View ACS-1804 or ACS-1808 can control up to 4 or 8 systems, respectively. Since units can be cascaded to three levels, in a full three stage installation, up to 21 ACS-1804 Master Views can control up to 64 SUN systems, and up to 73 ACS-1808 Master Views can control up to 512 SUN systems - all from a single console.

Setup is fast and easy; plugging cables into their appropriate ports is all that is entailed. Because the ACS-1804/ACS-1808 intercepts keyboard input directly, there is no software to configure, so there is no need to get involved in complex installation routines or be concerned with incompatibility problems.

There are two convenient methods to access any system connected to the installation: using the push button port selection switches located on each unit's front panel; and selecting from menus provided by the OSD (On Screen Display) feature. A powerful *Auto Scan* feature also permits auto scanning and monitoring the activities of all systems running on the installation one by one.

There is no better way to save time and money than with a Master View ACS-1804/ACS-1808 installation. By allowing a single console to manage all the attached SUN systems, a Master View ACS-1804/ACS-1808 installation: (1) eliminates the expense of having to purchase a separate keyboard, monitor, and mouse for each system; (2) saves all the space those extra components would take up; (3) saves on energy costs; and (4) eliminates the inconvenience and wasted effort involved in constantly moving from one system to another.

FEATURES

- ◆ Cascadable To Three Levels - Control Up to 64 (ACS-1804) or 512 (ACS-1808) SUN systems From a Single Console
- ◆ No Software Required - Computer Selection via Front Panel Switches or On Screen Display (OSD)
- ◆ Auto Scan Feature for Monitoring User-Selected Systems
- ◆ Programmable Scanning: Set System View Time and Selection Pattern
- ◆ Programmable Naming, and Security Functions
- ◆ Password Security
- ◆ PS/2 Keyboard and Mouse Support
- ◆ Multisync Monitor Support
- ◆ Superior Video Quality: 1920x1440
- ◆ OSD and LED Display For Easy Status Monitoring
- ◆ Supports High Quality CS Series Custom Connector Cables
- ◆ Rack Mountable in 19" System Rack (1U)

HARDWARE REQUIREMENTS

CONSOLE

- A VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any computer in the installation.
- A PS/2 style mouse
- Either a SUN keyboard or a PS/2 style keyboard

SUN SYSTEM

The following equipment must be installed on each SUN system:

- Either a SUN style video port (13W3), or an HDB-15 video port.
- Either a SUN style (8-pin mini-DIN) keyboard port or a PS/2 style (6-pin mini-DIN) mouse port and PS/2 style keyboard port.

CABLES

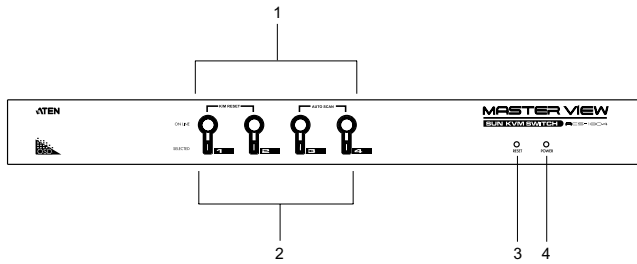
Use of substandard cables may damage the connected devices or degrade overall performance. For optimum signal integrity and to simplify the layout, we strongly recommend that you use the following high quality CS Custom Cable sets:

Function	CS Part Number
To station with HDB 15 monitor port	2L-1302M
To station with 13W3 monitor port	2L-1302S
Cascading Master Views	2L-1302M or 2L-1302S

- Note:**
1. Both cable types use a mini-DIN 8 connector to plug into the SUN station's keyboard port.
 2. Although either cable can be used to cascade Master Views, for best performance, we highly recommend using the 2L-1302S.

INTRODUCTION

ACS-1804 FRONT VIEW



1. Port Selection Switches

Press a switch to access the system attached to the corresponding port.

- Pressing Buttons 1 and 2 simultaneously for 3 seconds performs a *Keyboard and Mouse Reset*.
- Pressing 3 and 4 simultaneously starts *Auto Scan Mode* (see p. 16).

2. Port LEDs

The Port LEDs are built into the Port Selection Switches. The upper ones are the On Line LEDs; the lower ones are the Selected Port LEDs:

- The *On Line* LEDs light GREEN to indicate that the system attached to the corresponding port is up and running. If the LED is flashing, it indicates that the Port is being used for cascading to another Master View switch (see p. 8).
- The *Selected* LEDs light ORANGE to indicate that the system attached to the corresponding port is the one that has the KVM focus. The LED is steady under normal conditions, but flashes when its port is accessed under *Auto Scan Mode* (see p. 16).

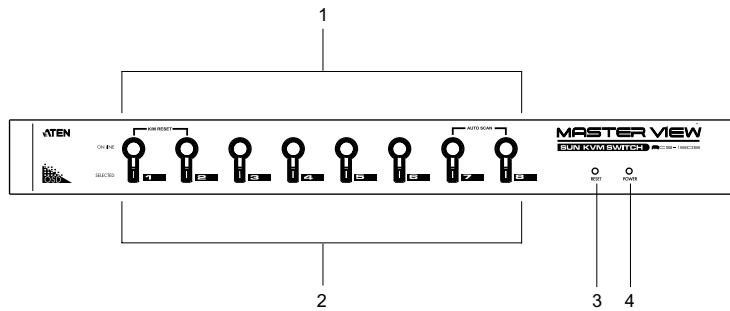
3. Reset

Use a thin object (such as the end of a paper clip, or a ballpoint pen), to press this recessed switch in to initiate a warm reset. If the switch is kept in for longer than three seconds, a cold reset takes place.

4. Power LED

Lights BLUE to indicate that the unit is receiving power.

ACS-1808 FRONT VIEW



1. Port Selection Switches

Press a switch to access the system attached to the corresponding port.

- Pressing Buttons 1 and 2 simultaneously for 3 seconds performs a *Keyboard and Mouse Reset*.
- Pressing 7 and 8 simultaneously starts *Auto Scan Mode* (see p. 16).

2. Port LEDs

The Port LEDs are built into the Port Selection Switches. The upper ones are the On Line LEDs; the lower ones are the Selected Port LEDs:

- The *On Line* LEDs light GREEN to indicate that the system attached to the corresponding port is up and running. If the LED is flashing, it indicates that the Port is being used for cascading to another Master View switch (see p. 8).
- The *Selected* LEDs light ORANGE to indicate that the system attached to the corresponding port is the one that has the KVM focus. The LED is steady under normal conditions, but flashes when its port is accessed under *Auto Scan Mode* (see p. 16).

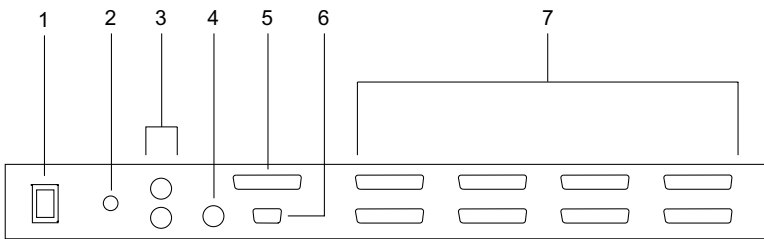
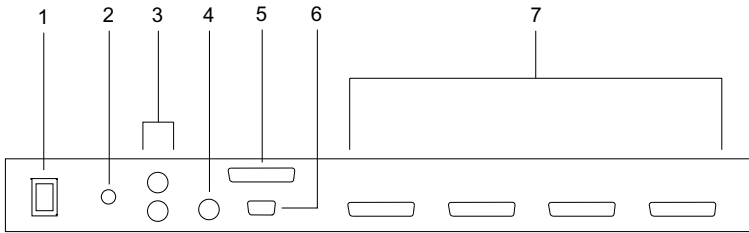
3. Reset

Use a thin object (such as the end of a paper clip, or a ballpoint pen), to press this recessed switch in to initiate a warm reset. If the switch is kept in for longer than three seconds, a cold reset takes place.

4. Power LED

Lights BLUE to indicate that the unit is receiving power.

ACS-1804 / ACS-1808 REAR VIEW



1. Power Switch

2. Power Jack

The power adapter cable plugs in here.

3. PS/2 Keyboard and Mouse Ports

If you are using a PS/2 keyboard and mouse for the console, they plug in here.

4. SUN Keyboard Port

If you are using a SUN keyboard for the console, it plugs in here.

5. 13W3 (SUN) Video Port

If you are using a SUN monitor, it plugs into this port.

6. HDB-15 (VGA) Video Port

If you are using a MultiSync monitor, it plugs into this port.

7. CPU Port Section

The cables that link to the SUN systems plug in here.

INSTALLATION

BEFORE YOU BEGIN

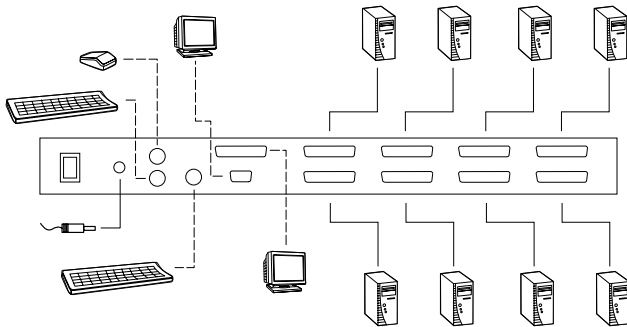


1. Make sure that power to all the devices you will be connecting up have been turned off. You must unplug the power cords of any systems that have the *Keyboard Power On* function. Otherwise, the switch will receive power from the system.
2. To prevent damage to your equipment due to ground potential difference, make sure that all devices on the installation are properly grounded. Consult your dealer for technical details, if necessary.

SINGLE STATION INSTALLATION

In a Single Stage installation, there are no additional Master View's cascaded down from the first unit. To set up a single stage installation do the following:

1. Either plug the SUN keyboard into the SUN Keyboard port, or plug a PS/2 keyboard and PS/2 mouse into the PS/2 Keyboard and Mouse ports.*
2. Either plug a SUN monitor into the 13W3 Video port, or plug a MultiSync monitor into the HDB-15 Video port.*
3. Use connector cable sets (as described in the *Cables* section on p. 3), to connect any available ACS-1804/ACS-1808 CPU Port to the Video and Keyboard ports of the SUN system.
4. Plug the power adapter cable into the Master View's Power Jack, then plug the power adapter into an AC power source.
5. Turn on the power to the systems.



* You must use one or the other. You cannot connect both types at the same time.

TWO STAGE INSTALLATION

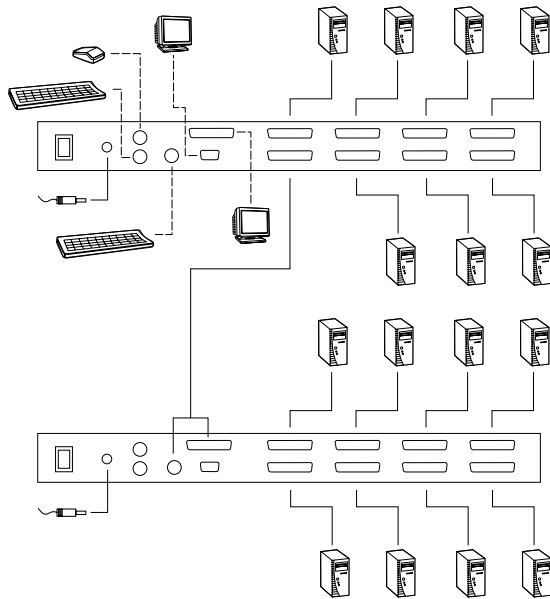
To control even more systems, up to four/eight additional Master View ACS-1804/ACS-1808 units can be cascaded from the CPU ports of the First Stage unit. The cascaded Master Views that connect back to the First Stage unit are considered Second Stage units. As many as 16 (ACS-1804) or 64 (ACS-1808) systems can be controlled in a complete two stage installation. A table showing the relation between the number of systems and the number of Master View units needed to control them is provided in the Appendix.

Note: Mixing different Master View models on the same installation can cause problems with OSD port switching. We strongly recommend that all cascaded units be the same model as the First Stage unit.

To set up a two stage installation, do the following:

1. Make sure that power to all the devices you will be connecting up, including all preexisting devices on the installation, have been turned off.
2. Use a connector cable set (described in the *Cables* section, p. 3), to connect any available CPU Port on the First Stage unit to the SUN Video and Keyboard ports of the Second Stage unit.
3. Use connector cable sets (described in the *Cables* section, p. 3), to connect any available CPU port on the Second Stage unit to the Video and Keyboard ports of the system you are installing.
4. Repeat steps 1 - 3 for any other Second Stage units you wish to connect.
5. For each Second Stage unit, plug the power adapter cable into the Master View's Power Jack; plug the power adapter into an AC source.
6. Turn on the power for all Second Stage Master View units.
7. Turn on the power for the First Stage Master View unit.
8. Turn on the power to all the systems.

Note: The Power On sequence requires that all Second Stage units be powered on first. After all the Second Stage units have been powered on, then the First Stage unit must be powered on next. After the Second and First stage units have been powered on, the systems can be powered on.



THREE STAGE INSTALLATION

The procedures for setting up a three stage installation are essentially the same as for a two stage installation. With a three stage setup, as many as 64 (ACS-1804) or 512 (ACS-1808) systems can be controlled in a complete installation. A table showing the relation between the number of systems and the number of Master View units needed to control them is provided in the Appendix.

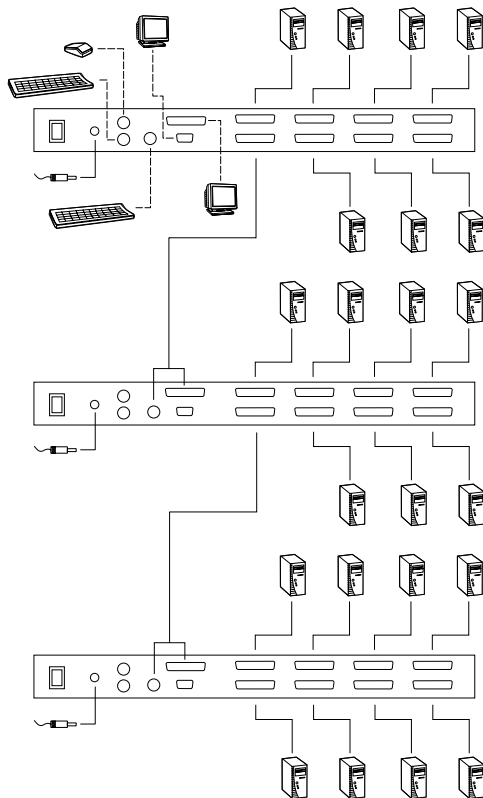
Note: Master View units cannot be cascaded beyond the third level.

To set up a three stage installation, do the following:

1. Make sure that power to all the devices you will be connecting up, including all preexisting devices on the installation, have been turned off.
2. Use a connector cable set (described in the *Cables* section, p. 3), to connect any available CPU Port on the Second Stage unit to the SUN Video and Keyboard Ports of the Third Stage unit.
3. Use connector cable sets (described in the *Cables* section, p. 3), to connect any available CPU port on the Third Stage unit to the Video and Keyboard ports of the systems you are installing, as shown in the diagram on page 10.

4. Repeat steps 1 - 3 for any other Third Stage units you wish to connect.
5. For each Third Stage unit, plug the power adapter cable into the Master View's Power Jack; plug the power adapter into an AC source.
6. Turn on the power for all Third Stage Master View units.
7. Turn on the power for all Second Stage Master View units.
8. Turn on the power for the First Stage Master View unit.
9. Turn on the power to all the systems.

Note: The Power On sequence requires that all Third Stage units be powered on first. After they are all on, the Second Stage units must be powered on next. After all the Second Stage units are on, the First Stage unit must be powered on. Only after all the Master Views have been powered on in this sequence, can the systems be powered on.



HOT PLUGGING

The unit supports hot plugging of the console's PS/2 keyboard, monitor, and PS/2 mouse. When hot plugging the mouse from the Master View's console mouse port:

1. You may unplug the mouse and plug it back in again (to reset the mouse, for example), as long as you use the *same* mouse.
2. If you plug in a different mouse, all the stations and all the systems on the installation must be shut down for 10 seconds, then restarted. (Refer back to the note describing the Power On sequence on p. 10, if necessary.)

- Note:**
1. If, after hot plugging (or at any other time), there is no response to mouse and/or PS/2 keyboard input, simultaneously press and hold Port Select buttons 1 and 2 on the First Stage unit for 3 seconds to perform a PS/2 Keyboard and PS/2 Mouse reset.
 2. Hot plugging CPU ports is not supported.
 3. Hot plugging a SUN keyboard is not supported.

POWERING OFF AND RESTARTING

If it becomes necessary to Power Off one of the Master View units, before starting it back up you must do the following:

1. Shut down all the systems that are attached to the unit, as well as all the Master View stations and all the systems that are cascaded down from it (all the child Master View stations and the systems attached to them).

Note: You must unplug the power cords of any systems that have the *Keyboard Power On* function that are connected to the shut down switches. Otherwise, the switches will still receive power from the systems.

2. Wait 10 seconds, then plug the Master Views back in, starting with the last station in the chain and working back to the station you originally shut down.
3. After all the Master View's are up, power On the systems, starting with the ones attached to the last station in the chain and working back to the station you originally shut down.

PORT SELECTION

The Master View ACS-1804/ACS-1808 provides two methods to obtain instant access to any system in your installation: Manual; *and* OSD.

♦ Manual

Simply press the appropriate *Port Selection Switch* on the Master View's front panel. After you press the switch, the *Selected* LED lights to indicate that the port is currently selected. The OSD (see p. 13) automatically switches to highlight the system that you have selected.

- Note:**
1. On a cascaded installation, you must press the Port Selection switch on the Master View Station that connects directly to the system you want to access.
 2. Simultaneously pressing Port Selection buttons 3 and 4 (ACS-1804) or 7 and 8 (ACS-1808) on the First Stage unit initiates the *Auto Scan* feature in which all the ports currently selected in the OSD's **F3 LIST** function (see p. 17), are cycled through. The length of time spent on each port is determined with the *Scan Duration* setting under the OSD's **F6 SET** function (see p. 18).

♦ OSD

OSD (On Screen Display), provides a menu driven interface to handle the system switching procedure to provide instant access to any system on the installation. OSD operation is discussed in the next section.

OSD OPERATION

OSD OVERVIEW

On Screen Display (OSD), provides a menu driven interface to handle the system switching procedure. Using OSD is a great deal more convenient than Manual switching - especially in large, cascaded installations where it is difficult to keep track of which port a particular system is attached to.

All operations start from the OSD Main Menu. To pop up the Main Menu, tap either Ctrl key twice.

- Note:**
1. The keys must be on the same side (both left, or both right).
 2. You can optionally change the hotkey to the Scroll Lock key (see *OSD Activating Hotkey* under the *F6 SET* function on p. 18), in which case you would press [Scroll Lock] twice.

When you invoke the OSD, a screen similar to the one below appears:

PN	QV	PC	NAME	
2-5	▶	+	ABC	▲
2-6			XYZ	▲
2-7				
2-8				
3				
4				
5-1				▼
5-2				▼

F1 GOTO F2 SCAN F3 LIST F4 QV F5 EDIT F6 SET

- OSD always starts in List view, with the highlight bar at the same position it was in the last time it was closed.
- The Port Number (PN) for each system on the installation is shown in the left column of the list. Port numbering details are discussed in the next section.



PORT NUMBERING

Each CPU port on a Master View installation is assigned a unique Port ID. The Port ID is a one, two, or three digit number that is determined by the Stage Level and CPU port number of the Master View unit that the system is connected to.

The first digit represents the CPU port number of the First Stage unit; the second digit represents the CPU Port number of the Second Stage unit; the third digit represents the CPU port number of the Third Stage unit.

For example, a system attached to a First Stage unit has a one digit Port ID (from 1 to 4 or 1 to 8), that corresponds to the CPU port number that the system is connected to.

A system attached to a Second Stage unit has a two digit Port ID. The first digit represents the CPU port number on the First Stage unit that the Second Stage unit links back to; the second digit represents the CPU port number on the Second Stage unit that the system is connected to. Therefore, a Port ID of **2-3** would refer to a system that is connected to **CPU port 3 of a Second Stage unit** that links back to **CPU port 2 of the First Stage unit**.

Likewise, a system attached to a Third Stage unit has a three digit Port ID. One with a Port ID of **2-4-1** would be connected to **CPU port 1 of a Third Stage unit**, that links back to **CPU port 4 of a Second Stage unit**, which, in turn, links back to **CPU port 2 of the First Stage unit**.

OSD NAVIGATION

- [Esc] cancels the current selection, or dismisses the current menu and moves back to the menu one level above. If you are at the highest menu level, it deactivates OSD.
- Use the Up and Down Arrow Keys or click the Up and Down Triangle symbols (▲▼) to move up or down through the list one line at a time.
- Use [Pg Up] and [Pg Dn] or click the Up and Down Arrow symbols (▲▼) to move up or down through the list one screen at a time.
- To activate a port, move the Highlight Bar to it then press [Enter].
- After executing any action, you automatically go back to the menu one level above.

OSD MAIN MENU HEADINGS

Heading	Explanation
PN	This column lists the Port ID numbers (Station Number - Port Number) for all the CPU ports on the installation. The simplest method to access a particular system is move the Highlight Bar to it, then press [Enter].
QV	If a port has been selected for Quick View scanning (see F2 and F4, below), an arrowhead displays in this column to indicate so.
PC	Lists all the systems that are Powered On and are On Line.
NAME	If a port has been given a name (see F5, below), its name appears in this column.

THE FUNCTION KEYS

Pressing a Function Key brings up a submenu that is used to configure and control the OSD. For example, you can: rapidly switch to any port; scan selected ports only; limit the list you wish to view; designate a port for Quick View scanning; create or edit a port name; or make OSD setting adjustments.

◆ F1 GOTO:

GOTO allows you to switch directly to a port by keying in the *Port ID* or *Name*, then pressing [Enter].


Note: GOTO has a special feature that narrows the list of available choices as you type the name. For example, if the first letter you type is *a*, the list only displays those ports whose names begin with *a*. If the next letter you type is *b*, the list is further narrowed down to only those ports whose names begin with *ab*, etc.

To return to the OSD Main Menu without making a choice, press [Esc].

◆ F2 SCAN:

Pressing [F2] initiates *Auto Scan Mode*, in which the OSD cycles through all the ports that are currently selected in the *List* view (see **F3**, below), and displays each one for the amount of time set with the *Scan Duration* setting under the **F6 SET** function (see p. 18). When you want to stop at a particular location, press the [Spacebar] to stop scanning.

Note: 1. If the scanning stops on an empty port, or one where the system is attached but is powered Off, the monitor screen will be blank, and the mouse and keyboard will have no effect. After the *Scan Duration* time is up, the Scan function will move on to the next port.

2. As each system is accessed, an  appears in front of the Port ID display to indicate that it is being accessed under *Auto Scan Mode*.

◆ **F3 LIST:**

This function displays the Port ID numbers and Names (if names have been specified - see F5) of the ports on the installation. It lets you broaden or narrow the scope of which ports the OSD lists and Auto Scans (Auto Scanning only accesses the currently listed ports). The submenu choices and their meanings are given in the table below:

Choice	Meaning
ALL	Lists all of the ports on the installation.
QVIEW	Lists only the ports that have been selected for Quick View scanning (see F4, below).
POWERED ON	Lists only the ports that have their attached systems Powered On.
POWERED ON + QVIEW	Lists only the ports that have been selected for Quick View scanning (see F4, below), and that have their attached systems Powered On.
QVIEW + NAME	Lists only the ports that have been selected for Quick View scanning (see F4, below), and have been assigned names (see F5, below).
NAME	Lists only the ports that have been assigned names (see F5, below).

Move the Highlight Bar to the choice you want, then press [Enter]. An icon appears before the choice to indicate that it is the currently selected one.

- Note:**
1. You can access any port on any list by using the Navigation Keys then pressing [Enter].
 2. If you select a port that does not have a system attached to it, or if the attached system is powered Off, the OSD will still switch to it, and will not show an error.

◆ **F4 QV:**

QV stands for *Quick View*. In conjunction with the **F3 LIST** function, it lets you select a narrower set of ports to include for automatic scanning under the *Scan* function (see F2, above). To only scan QV selected ports, choose one of the QV choices in the **F3 LIST** function.

[F4] is a toggle. To select/deselect a port, move the highlight bar to it, then press [F4]. When a port has been selected, an arrowhead displays in the QV column to indicate so. When a port is deselected, the arrowhead disappears.

◆ **F5 EDIT:**

To help remember which system is attached to a particular port, every port can be given a name. The Edit function allows you to create, modify, or delete port names. To Edit a port name:

1. Move the highlight bar to the port you want to edit.
2. Press [F5].
3. Key in the new Port Name, or modify/delete the old one.

The maximum number of characters allowed for the Port Name is 15. Legal characters include:

- ◆ All alpha characters: **a - z; A - Z**
- ◆ All numeric characters: **0 - 9**
- ◆ **+ - / : . and Space**

Case does not matter; OSD displays the Port Name in all capitals no matter how they were keyed in.

4. When you have finished editing, press [Enter] to have the change take effect. To abort the change, press [Esc].

◆ **F6 SET:**

Pressing [F6] brings up the OSD configuration menu. To change a setting:

1. Move the highlight bar to the choice you want (an icon of a pointing finger indicates which choice is the currently selected one), then press [Enter].
2. On the submenu that appears, move the highlight bar to the choice you want and press [Enter].

An explanation of the choices is given in the table below:

Setting	Function
CHANNEL DISPLAY MODE	Selects how the Port ID is displayed: the Port Number plus the Name (PN + NAME); the Port Number alone (PN); or the Name alone (NAME).
CHANNEL DISPLAY DURATION	Determines how long a Port ID displays on the monitor after a port change has taken place: 3 Seconds ; or Always On .

Setting	Function
CHANNEL DISPLAY POSITION	Allows you to position where the Port ID appears on the screen. Use the Arrow Keys, Pg Up, Pg Dn, Home, End, and 5 (on the numeric keypad with Num Lock off), to position the Port ID display, then press [Enter] to lock the position and return to the <i>SET</i> submenu.
SCAN DURATION	Determines how long the display dwells on each port as it cycles through the selected ports in Auto Scan Mode. The options are: 3, 5, 10, 15, 20, 30, 40, and 60 seconds.
OSD ACTIVATING HOTKEY	Selects which Hotkey activates the OSD function: [Ctrl] [Ctrl] or [Scroll Lock] [Scroll Lock] . The default is the Ctrl key combination, but this may conflict with programs running on the systems, in which case, the Scroll Lock option should be used.
SET PASSWORD	Allows you to set a password in order to control access to: Clearing the Name List; Restoring Default Values; and Locking/Unlocking the Console. See the <i>OSD Security Features</i> section, below, for password setting details.
CLEAR THE NAME LIST*	Clears all Port Names from the Name List. You are asked to confirm before the procedure goes on. Key in Y , then press [Enter] to confirm. While the names are being cleared, a message appears on the display to indicate so. After the names have been cleared, another message appears to indicate that the procedure completed successfully.
RESTORE DEFAULT VALUES*	Clears all settings from memory, and returns the unit to the factory default settings (see p. 20). You are asked to confirm before the procedure goes on. Key in Y , then press [Enter] to confirm. While the settings are being cleared, a message appears on the display to indicate so. After the settings have been cleared, another message appears to indicate that the procedure completed successfully.
LOCK CONSOLE*	Locks / Unlocks the Console. When the Console is locked, only the current monitor screen displays. Attempts to input information from the console have no effect; attempts to switch to a different port, either from the Console or by pressing the manual switches, have no effect either. The only way to regain access to the systems is by Unlocking the Console. If a password has been set, you must provide the password in order to Lock / Unlock the Console. If no password has been set, pressing [Enter] will Lock / Unlock the Console.

* If a password has been set, this setting requires you to supply it in order to gain access. See the *OSD Security* section, below, for details.

FACTORY DEFAULT SETTINGS

The factory default settings are as follows:

Setting	Default
Display Duration	Always On
Display Mode	The Port Number plus the Port Name
Scan Duration	3 Seconds

OSD SECURITY

In order to prevent unauthorized access to the systems, the OSD provides a password security feature. If a password has been set, the OSD will request that the user specify it before allowing entry. To set a password:

1. Press [F6] to bring up the setup configuration menu.
2. Move the highlight bar to *Set Password*, then press [Enter].
3. Key in the new password, then press [Enter].
The password may be up to 8 characters long, and can consist of any combination of letters and numbers (A - Z, 0 - 9).
4. Key in the new password again, in order to confirm that it is correct, then press [Enter].

If the two entries match, the new password is accepted and the screen displays the following message:

SET PASSWORD OK

If the entries do not match, the screen displays the message:

PASSWORD NOT MATCH

in which case you must start again from the beginning.

Note: To modify or delete a previous password, access the Password function as in Steps 1 and 2, then use the backspace or delete key to erase the individual letters or numbers.

APPENDIX

MASTER VIEW - SYSTEM CONNECTION TABLES

The following tables indicate the relationship between the number of Master View Units and the number of systems that they control:

◆ ACS-1808:

MVs	Systems	MVs	Systems	MVs	Systems	MVs	Systems
1	8	20	134 - 141	39	267 - 274	58	400 - 407
2	8-15	21	141 - 148	40	274 - 281	59	407 - 414
3	15 - 22	22	148 - 155	41	281 - 288	60	414 - 421
4	22 - 29	23	155 - 162	42	288 - 295	61	421 - 428
5	29 - 36	24	162 - 169	43	295 - 302	62	428 - 435
6	36 - 43	25	169 - 176	44	302 - 309	63	435 - 442
7	43 - 50	26	176 - 183	45	309 - 316	64	442 - 449
8	50 - 57	27	183 - 190	46	316 - 323	65	449 - 456
9	57 - 64	28	190 - 197	47	323 - 330	66	456 - 463
10	64 - 71	29	197 - 204	48	330 - 337	67	463 - 470
11	71 - 78	30	204 - 211	49	337 - 344	68	470 - 477
12	78 - 85	31	211 - 218	50	344 - 351	69	477 - 484
13	85 - 92	32	218 - 225	51	351 - 358	70	484 - 491
14	92 - 99	33	225 - 232	52	358 - 365	71	491 - 498
15	99 - 106	34	232 - 239	53	365 - 372	72	498 - 505
16	106 - 113	35	239 - 246	54	372 - 379	73	505 - 512
17	113 - 120	36	246 - 253	55	379 - 386		
18	120 - 127	37	253 - 260	56	386 - 393		
19	127 - 134	38	260 - 267	57	393 - 400		

♦ ACS-1804:

MVs	Systems	MVs	Systems	MVs	Systems	MVs	Systems
1	4	7	19 - 22	13	37 - 40	19	55 - 58
2	4 - 7	8	22 - 25	14	40 - 43	20	58 - 61
3	7 - 10	9	25 - 28	15	43 - 46	21	61 - 64
4	10 - 13	10	28 - 31	16	46 - 49		
5	13 - 16	11	31 - 34	17	49 - 52		
6	16 - 19	12	34 - 37	18	52 - 55		

TROUBLESHOOTING

Symptom	Possible Cause	Action
Erratic behavior.	Unit not receiving enough power.	Check that the Power Adapter that was supplied with the unit is plugged in and functioning properly.
Mouse and/or Keyboard not responding.	Improper mouse and/or keyboard reset.	<ol style="list-style-type: none"> 1. Reset the mouse and keyboard by simultaneously pressing Buttons 1 and 2 on the First Stage unit for 3 seconds. 2. Unplug the mouse and/or keyboard connector from the Console Mouse Port, then plug it back in.

SPECIFICATIONS

Function		ACS-1804	ACS-1808
System Connections	Direct	4	8
	Max	64 (via Cascade)	512 (via Cascade)
Port Selection		Front Panel Switches On Screen Display	
LEDs	Power	1 (Blue)	
	On Line Port	4 (Green)	8 (Green)
	Selected Port	4 (Orange)	8 (Orange)
Console Connectors	SUN Keyboard	1 x 8 pin mini-DIN female	
	PS/2 Keyboard	1 x 6 pin mini-DIN female	
	PS/2 Mouse	1 x 6 pin mini-DIN female	
	Video	1 x HDB-15 female; 1 x 13W3 (SUN) female	
CPU Port Connectors		4 x DB-25 female	8 x DB-25 female
Scan Interval (OSD Select)		3, 5, 10, 15, 20, 30, 40, 60 secs.	
Power Consumption		DC 9V; 3.15W (max)	DC 9V; 3.42W (max)
Operating Temperature		5 - 40° C	
Storage Temperature		-20 - 60° C	
Humidity		0 - 80% RH	
Housing		Metal	
Weight		2400 g	2500 g
Dimensions (L x W x H)		433 x 154 x 44.5 mm (19" 1U)	

STACKING AND MOUNTING

◆ Stacking:

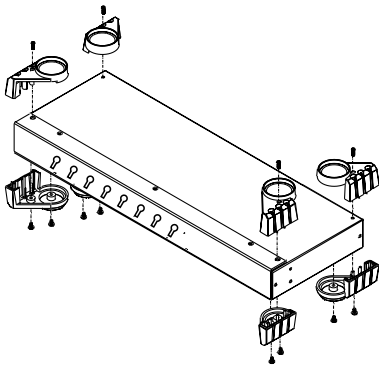
The unit comes with the stacking brackets already attached. Note that there is a top and bottom half to each bracket. The top half has a convex surface; the bottom half has a concave surface.

Line up the four bottom brackets of the top unit with the four top brackets of the bottom unit; then fit the top unit down onto the bottom unit.

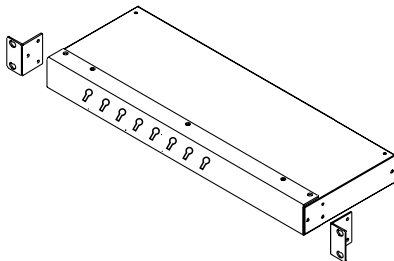
◆ Rack Mounting

To rack mount the unit do the following:

1. First remove the stacking brackets by unscrewing them from the unit, as shown in the diagram below:



2. Screw the mounting brackets into the sides of the unit, as shown in the diagram below:



3. Slide the unit into the rack and secure it to the rack.



LIMITED WARRANTY

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

The direct vendor makes no warranty or representation, expressed, implied, or statutory with respect to the contents or use of this documentation, and specially disclaims its quality, performance, merchantability, or fitness for any particular purpose.

The direct vendor also reserves the right to revise or update the device or documentation without obligation to notify any individual or entity of such revisions, or update. For further inquires please contact your direct vendor.

2001-06-21

