

# MASTER VIEW PRO

**KVM SWITCH**



## USER'S MANUAL

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CS-1004 • CS-1008 • CS-1016

## PACKING LIST

The complete Master View Pro package consists of:

- **One Master View Pro KVM Switch  
(CS-1004, CS-1008, or CS-1016)**
- **One Power Adapter**
- **One User's Manual**

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

Please read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the Master View Pro unit, and/or any of the devices it connects with.

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# Overview

The Master View Pro KVM Switch is a control unit that allows access to multiple PCs from a single console (keyboard, mouse, and monitor). Before the development of the Master View, the only way to control multiple computer configurations from a single console was through a complex and costly network system. Now, with the Master View Pro, you can easily access multiple computers in a cost effective manner.

Depending on the model, a Master View Pro unit can control up to 4, 8, or 16 PCs. Up to 31 additional Master View Pros can be daisy chained (for a total of up to 32 units), which means that up to 128, 256, or 512 PCs can all be controlled from a single keyboard-monitor-mouse console.

Model	Computer Ports	Maximum via Daisy Chain
CS-1004	4	128
CS-1008	8	256
CS-1016	16	512

Setup is fast and easy; plugging cables into their appropriate ports is all that is entailed. There is no software to configure, so there is no need to get involved in complex software installation routines or be concerned with incompatibility problems. Since the Master View Pro intercepts keyboard input directly, it works on any hardware platform and with all operating systems.

The Master View Pro provides three convenient methods to access any PC connected to the system: using the port selection switches located on the Master View Pro's front panel; entering *Hot Key* combinations from the keyboard; and using the menu driven OSD (On Screen Display) feature.

A powerful *Quick View Scan Mode* feature allows you to auto scan and monitor the activities of all operating PCs on the installation one by one. Responding to the growing use of multimedia in the work station space, the Master View Pro has been designed with built in microphone and speaker support - a feature that will be increasingly essential over time.

There is no better way to save time and money than with a Master View Pro installation. By allowing a single console to manage all the attached PCs, the Master View Pro eliminates the expense of purchasing a separate keyboard, monitor, and mouse for each PC as well as saving all the space they would take up. It also eliminates the inconvenience and wasted effort involved in constantly moving around from one PC to another.

## Features

- Daisy Chain Up To 31 Additional Units - Control Up to 512 PCs From a Single Console
- No Software Required - PC Selection via Front Panel Switches, *Hot Keys*, or OSD (On Screen Display)
- Quick View Scan Mode for Monitoring Selected PCs
- PS/2 and Serial Mouse Emulation Provided For System Bootup
- Console's PS/2 Mouse Controls All Connected PCs - Even Those With Serial Mice
- Microsoft Intellimouse Pro, Logitech FirstMouse, MouseMan, IBM Scrollpoint Mouse Support
- SVGA, VGA and Multisync Monitor Support
- LED Display For Easy Status Monitoring
- Supports High Quality CS Series Custom Connector Cables
- Rack Mountable in 19" System Rack
- Audio Support Built In
- Hot Pluggable - Add or Remove PCs for Maintenance Without Powering Down the Switch
- Supports DDC2B

# Hardware Requirements

## Console

- A VGA, SVGA, or Multisync monitor capable of the highest resolution that you will be using on any PC in the installation
- A PS/2 Style Mouse
- A PS/2 Style Keyboard

## PC

The following equipment must be installed on each PC that is to be connected to the system:

- A VGA, SVGA or Multisync card.
- Either a 6-pin mini-DIN (PS/2 style), or DB-9 (standard serial), mouse port.
- Either a 6-pin mini-DIN (PS/2 Style) keyboard port with +5V DC on pin 4 and Ground on pin 3, or a 5-pin DIN (AT Style) keyboard port with +5V DC on pin 5 and ground on pin 4.

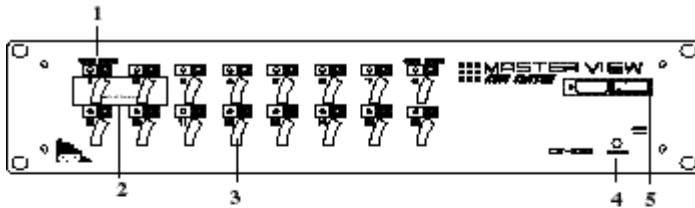
## Cables

For optimum signal integrity and to simplify the layout, we strongly recommend that you use the following high quality CS Custom Cable sets:

PC Port Type	ATEN CS Custom Cable
AT (5 pin DIN) Keyboard and Serial Mouse	2L-1701 P + Keyboard & Mouse Adapters
PS/2 (6 pin mini-DIN) Keyboard and Mouse	2L-1701P
Daisy Chain Master View Pro Units	2L-1700

# Unpacking

CS-1016 Front View:



\* The figure shows a CS-1016 model. The only difference between it and the other models is in the number of Port Selection Switches.

## 1. Status LEDs:

On Line: Lights ORANGE to indicate that the PC attached to the corresponding port is up and running.

Selected: Lights GREEN to indicate the currently selected port.

## 2. K/M Reset

If the keyboard and mouse get stuck and need to be reset, simultaneously press this **Port1 / Port2** switch combination for three seconds.

## 3. Port Selection Switches

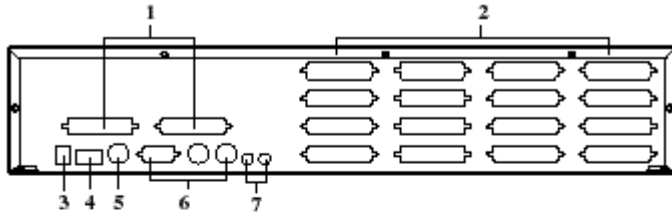
Press a switch to access the PC attached to the corresponding port.

## 4. Power LED

Lights to indicate that the Master View Pro has been turned On and is receiving power.

## 5. Power Switch

## CS-1016 Rear View:



\* The figure shows a CS-1016 model. The only difference between it and the other models is in the number of CPU Ports.

### 1. Daisy Chain Section

If you daisy chain units, the cables plug in here.

### 2. CPU Port Section

The cables from the PCs plug in here.

### 3. Power Jack

The power adapter plugs in here.

### 4. DIP Switch

SW 1 - 5: Sets the Station No. (see the table on p. x for details)

SW 6: Enables/Disables OSD Hot Key switching (On = Enabled; Off = Disabled).

### 5. Link

Link is reserved and has no function at this time.

### 6. Console Port Section

Your monitor, keyboard and mouse plug in here.

### 7. Microphone and Speaker Jacks

Your microphone and speakers plug in here.

# Installation

Before you begin, make sure that power to all the devices (Master View Pro and PCs) you will be connecting up have been turned off.

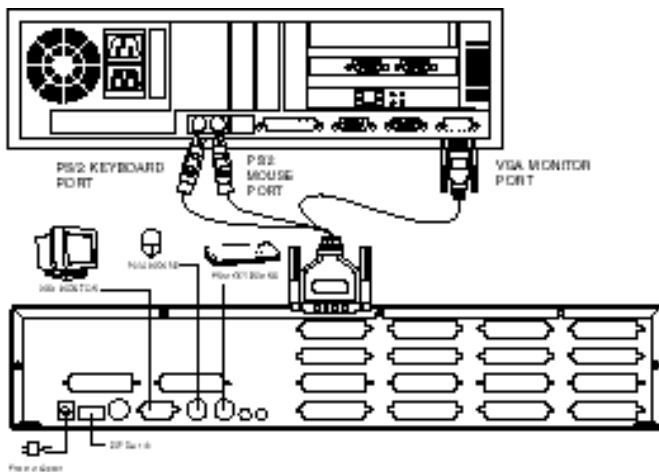
## First Station Installation

The Master View Pro that the console connects to is considered the *First Station*. To install the First Station, do the following:

1. Set Switches 1 - 5 of the Master View Pro's DIP Switch to the **ON** position to set this unit up as the First Station (see the table on page 20 for Dip Switch Station Setting details).
2. To enable **Hot Key** port selection under OSD set DIP Switch 6 to the **ON** position. (see Hot Key Operation, p.13, for details concerning *Hot Key* port selection).
3. Plug the monitor, keyboard, and mouse into the **Console** port connectors located on the rear panel of the Master View Pro unit. Each port is labeled with an appropriate icon to indicate itself.
4. Use connector cable sets (as described in the *Hardware Requirements* section), to connect the monitor, keyboard and mouse ports of the PCs to any available Master View Pro CPU Port, as shown in the diagram below.

**Note:** Ignore the **Chain In** and **Chain Out** Ports at this time. They are only used when daisy chaining additional Master View Pro units. Daisy Chaining is described in the next section.

5. Plug the power adapter into an AC source; plug the power adapter cable into the Master View Pro's Power Jack.



6. Turn on the power to the Master View.

**Note:** When you turn the unit On, it undergoes a Power On Self Test. If there is a problem, Port LEDs 1 - 4 flash repeatedly according to a pattern that indicates what the problem is:

Pattern	Indication
LEDs 1 - 4 Flash Simultaneously	Internal RAM Memory Error
LEDs 1 - 4 Flash One After the Other	External RAM Memory Error
LEDs 1 + 2, and LEDs 3 + 4 Alternately Light and Go Off	ROM Test Error

If any of these problems occur, turn the Switch Off, then turn it On again.

7. Turn on the power to the PCs.

**Note:** You must turn on the power to the Master View Pro *before* turning on the power to the PCs.

### Daisy Chaining

To provide control for more than PCs than just a single Master View Pro unit allows, up to 31 additional units can be daisy chained down from the original one. In this way, as many as 128, 256, or 512 PCs can be controlled in a complete installation depending on which model your installation uses (CS-1004, CS-1008, or CS-1016, respectively).

**Note:** While it is physically possible to mix the different Master View Pro models on the same daisy chain, we *strongly* recommend against it, as doing so can cause problems with *Hot Key* and OSD port switching. Please use all units of the same model when daisy chaining.

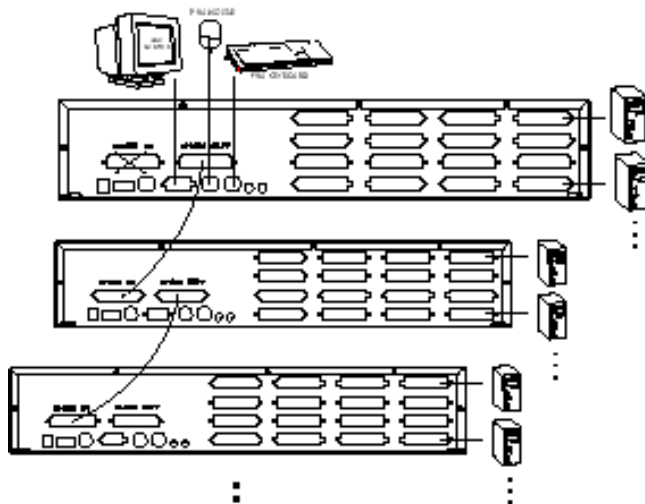
The first Master View Pro (the one that the console connects to), is considered the First Station; the Master View that daisy chains to it is considered the Second Station; the Master View daisy chained to the Second Station is considered the Third Station, etc. To daisy chain a Master View, do the following:

1. Make sure that power to all the devices (Master View Pros and PCs) you will be connecting up, as well as preexisting devices on the installation have been turned off.
2. Make sure that DIP Switches 1 - 5 of the First Station Master View Pro are all set to the **ON** position to set it up as a First Station unit (see the table on page 20 for DIP Switch Station Setting details).
3. Set DIP Switches 1 - 5 of the of the Second (Third, Fourth, etc.), Station Master View Pro according to the table provided on page 20.

4. Use Daisy Chain cable set **2L-1700** (as described in the *Hardware Requirements* section), to connect from the **Chain Out** Port of the parent Master View unit to the **Chain In** Port of the child Master View unit (First Station Out to Second Station In, Second Station Out to Third Station In, etc.).

**Note:** You cannot use the **Chain In** Port of the First Station Master View, since it is the highest level parent.

5. Plug the power adapter into an AC source; plug the power adapter cable into the Master View unit's power jack located on the unit's rear panel.
6. Connect the PCs to the ports with the cable sets described in the *Cables* section on page 3, and power up. When powering up, you must follow these two basic rules:
- Turn on the power to a child Master View Station *before* turning on the power to its parent (i.e., start with the last unit in the chain and work back to the First Station).
  - Turn on the power to *all* the Master View Pro Stations *before* turning on the power to any of the PCs.



# Operation

## Hot Plugging

The Master View Pro supports hot plugging - which means that components can be removed and added back into the installation by unplugging their cables from the Master View Pro ports without the need to shut the unit down. There are certain procedures that must be followed in order for hot plugging to work properly, however:

### • Hot Plugging CPU Ports

When hot plugging cables from the CPU ports:

1. The cable must be plugged back into the *same port* it was removed from.
2. After plugging the cable back in, you must perform a **K/M Reset** on the First Stage unit by simultaneously pressing the **Port1 / Port2** switch combination for three seconds.

### • Hot Plugging Console Ports

When hot plugging the mouse from the Master View Pro'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 computers on the installation must be shut down for 10 seconds, then restarted according to the directions in Step 6 of the *Daisy Chaining* section, above.

## Powering Off and Restarting

If, for some reason, it is necessary to Power Off one of the Master View Pro units, before you start it back up you must do the following:

1. Shut down all the computers that are attached to it, as well as all the stations and all the computers that are daisy chained down from it (all the child stations and the computers attached to them).
2. Wait 10 seconds, then restart the Master View Pro stations, starting with the last station in the chain and working back to the station you originally shut down.
3. After the Master View Pros are up, power On the PCs, starting with the ones attached to the last station in the chain and working back to the station you originally shut down.

**Note:** It is not necessary to shut down and restart any of the stations or computers above the station you powered off.

## Port Selection

Controlling all the PCs connected up in your Master View Pro installation from a single console could not be easier. Three methods are available that provide instant access to any PC on the chain: Manual; *Hot Key*; and OSD.

- **Manual**

Simply press the appropriate *port selection switch* on the Master View Pro's front panel. After you press the switch, the *Selected* LED lights to indicate that the port is currently selected. The On Screen Display (OSD, discussed on p.15) automatically switches to highlight the PC that you have selected.

**Note:** On a daisy chained installation, you must press the Port Selection switch on the Master View Station that connects directly to the PC you want to access.

- **Hot Key**

Press [LCtrl+RCtrl] (simultaneously); key in the Port ID (see Port ID Numbering, below, for details); then press [Enter].

- **OSD**

Press either Left or Right [Ctrl]+[Ctrl] (one after the other) to enter the OSD Main Menu; from there, either:

- Key in the Port ID (see Port ID Numbering, below for details); then press [Enter], or
- Use the Arrow Keys or Mouse to move the Highlight Bar to the port you want; then press [Enter], or Double Click on it with the mouse.

**Note:** Hot key port selection under OSD is only enabled when DIP Switch 6 is set to **ON**.

The next section describes the Port ID numbering system. *Hot Key* and *OSD* operation are explained in detail in the sections that follow it.

# Port ID Numbering

Since each CPU Port on a Master View installation is assigned a unique *Port ID*, you can directly access any computer on any level of the installation by specifying the Port ID that the computer is connected to using the *Hot Key* port selection method, or from the OSD Main Menu. The Port ID is made up of two parts:

1. The *Station Number* - a two digit number which reflects the Master View Pro's position in the daisy chain sequence;
2. The *Port Number* - a one or two digit number which reflects the port on the Master View station that the PC is connected to.

## Numbering Rules

The rules for assigning Station and Port numbers are as follows:

- The Station Number precedes the Port Number and must always be two digits. That means that Stations 1 - 9 must be padded with a preceding zero, so their Station Numbers will be 01 - 09.
- The Port Number can be either one or two digits. Ports 1- 9 can be keyed in as 01 - 09, or 1 - 9 according to your preference.

Therefore, a complete Port ID consists of either three or four numbers: the first two for the Station Number; the last one or two for the Port Number. For example, after enabling *Hot Key* switching with [Ctrl+Ctrl] (pressing and releasing both Ctrl keys simultaneously), or invoking the OSD Main Menu with [Ctrl]+[Ctrl] (pressing and releasing either Ctrl key twice), keying in:

0315 [Enter]

switches to the PC attached to CPU Port 15 of Master View Station 3. Likewise:

123 [Enter]

switches to the PC attached to CPU Port 3 of Master View Station 12.

You may also specify a partial Port ID by keying in only one or two digits, in which case the digits specify the Port ID of the Station that is currently accessed. As in:

3 [Enter]

which switches to the PC attached to CPU Port 3 of the Master View Station that is already being accessed.

## Port Numbering Table

Port Numbering is summarized in the following table:

<b>Number of Digits</b>	<b>Meaning</b>
4	First two for Station Number; second two for Port Number
3	First two for Station Number; third for Port Number
2	Port Number on the Currently Active Station
1	Port Number on the Currently Active Station

# Hot Key Operation

## Hot Key Navigation

*Hot Key* navigation allows you to conveniently access connected PCs directly from the keyboard, instead of having to manually select them by pressing *Port Selection* switches.

**Note:** Make sure that DIP Switch 6 (located on the Master View's rear panel), is set to **ON** to enable the *Hot Key* feature under OSD.

To select a port with the *Hot Key* method, do the following:

1. Press and release both the left and right Ctrl Keys [Ctrl+Ctrl] *at the same time*.

**Note:** In OSD, when you are at the Main Menu you can key in the Port ID for the computer you wish to access without first having to press the [Ctrl+Ctrl] combination. This avoids the possibility of the [Ctrl+Ctrl] combination conflicting with a key assignment in the currently running application.

2. Key in the Port ID for the PC you want to access (see *Port ID Numbering*, above, for details), then press [Enter].

The On Screen Display (OSD, see p.15) automatically switches to highlight the PC that you have selected.

When you key in the Port ID, note the following:

- You must key in the Port ID and press [Enter] within six seconds of releasing the [Ctrl+Ctrl] combination.
- Number keys must be pressed from the regular keyboard; not from the numeric keypad.
- The keys must be pressed and released one key at a time.
- The interval between key presses cannot be longer than 6 seconds.

## Hot Key Broadcasting

Commands to all attached PCs (to install software or shut down all the PCs, e.g.), can be broadcast from the console's keyboard with the following *Hot Key* combinations:

- [Ctrl] + [Alt] + [1] + [Enter] - to initiate the keyboard broadcast  
A *Broadcast* symbol appears in front of the Station ID (if the Port ID is currently displayed on the screen), to indicate that Broadcasting is in effect.
- [Ctrl] + [Alt] + [2] + [Enter] - to end the keyboard broadcast

When keying in the combination, note the following:

- Number keys must be pressed from the regular keyboard; not from the numeric keypad.
- The keys must be pressed and released one key at a time.
- The interval between key presses cannot be longer than 6 seconds.
- If you make a mistake, just start over again with [Ctrl] + [Alt] + [1] + [Enter].
- Confirmation that the key in has been accepted is made either by OSD or with one or two beeps.



## Previous/Next Switching

*Previous/Next* switching enables you to quickly switch from the currently active computer to the previous or next available computer in the installation. To invoke *Previous/Next* switching, key in the following *Hot Key* combination:

1. Press and release [Ctrl]+[Alt]+9+Right Shift  
To Switch to the *Next* available computer.
2. Press and release [Ctrl]+[Alt]+9+Left Shift  
To Switch to the first available computer that resides on the installation *Previous* to the current one.

Switching is cyclical so, for example, if you are currently at Port 16 of Station 32 and use the combination to switch to the *Next* available computer, you will circle back to Station 1 to start looking for the next available computer, and vice versa when switching backwards to an available computer that exists prior to the current one.





# OSD Operation

On Screen Display (OSD), provides a menu driven interface to handle the PC switching procedure. Although *Hot Key* switching still works, using OSD is a great deal more convenient - especially in large, daisy chained installations where a great number of PCs are connected to a several Master View Pro units, and it is difficult to keep track of which port a particular PC is attached to.

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

- OSD always starts in **List** view, with the highlight bar at the same position it was in the last time it was closed.
- From the Main Menu, you can go directly to any port by either keying in its Port ID (Station Number - Port Number), and pressing [Enter], or by double clicking on it with the mouse.

## Navigation

- To dismiss the menu, and deactivate OSD, press [Esc]
- Use the Up and Down Arrow Keys to move up or down through the list one line at a time
- Use [Pg Up] and [Pg Dn] to move up or down through the list one screen at a time
- Click on   to move up or down through the list one line at a time
- Click on   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] or Double Click with the left mouse button.

## OSD Main Menu Headings:

SN-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 PC (assuming you know which port it is attached to), is to use the Navigation Keys or the Mouse to move the Highlight Bar to the desired location, then press [Enter].
QV	Ports that have been selected for Quick View Scan Mode (see F2 and F4, below), have an arrowhead displayed in this column to indicate so.
PC	Lists all the PCs 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 related submenu that is used to configure and control the OSD to make it convenient for you to work with. For example, you can: rapidly switch to any port; scan selected ports only; limit the list you wish to view; designate a port to be included in the Quick View Scan Mode group; create or edit a port name; or make OSD setting adjustments.

#### • F1 GoTo:

GoTo allows you to switch directly to a port by the following methods:


- Move the Highlight Bar to the port you want then press [Enter] or Double Click with the left mouse button.
- Key in the *Port ID* or *Name*, then press [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 the *Quick View Scan Mode*, in which the OSD cycles through all the ports that have been selected for Quick View Scanning (see F4, below), and displays each one for the amount of time set with the *Set Scan Duration* function (see F6, below). When you want to stop at a particular location, press any key to stop scanning.

- Note:** (1) If the scanning stops on an empty port, or one where the computer is attached but is powered Off, the monitor screen will be blank, and the mouse and keyboard will have no effect. To recover, key in the *Hot Key* sequence (see *Hot Key Selection*, above), for any Port ID that has an active PC attached.
- (2) As the OSD cycles through the selected ports, an  appears in front of the Port ID display as each computer is accessed to indicate that the computer is being accessed under *Quick View Scan Mode*.

**• F3 List:**

This function brings up a submenu that lets you broaden or narrow the scope of which ports the OSD lists. The choices and their meanings are given in the table, below:

Choice	Meaning
All	List the Port ID numbers and Names (if names have been specified - see F5) of all the ports on the installation.
QView Only	List only the ports that have been selected for Quick View scanning (see F4, below).
QView or Powered	List only the ports that either have been selected for Quick View scanning (see F4, below), or that have their attached PCs Powered On.
QView and Name	List only the ports that have been selected for scanning under Quick View Scan Mode (see F4, below), and have been assigned names (see F5, below).
Name Only	List only the ports that have been assigned names (see F5, below).

To make a choice, move the Highlight Bar to it, then press [Enter] or Double Click with the left mouse button. 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 or Mouse to move the Highlight Bar to it, then pressing [Enter] or Double Clicking with the left mouse button.
- (2) If you select a port that does not have a PC attached to it, or if the attached PC is powered **Off**, the OSD will still switch to it, and will not show an error.

#### • **F4 QVSW:**

You can broaden or narrow the number of ports that get automatically scanned by selecting only the ones you want with the QVSW (Quick View Scan Switch) function. [F4] is a toggle that selects or deselects the currently highlighted port for the *Quick View Scan Mode* function (see F2, above). To select/deselect a port for QVSM:

1. Use the Up and Down Arrow Keys or Mouse to move the highlight bar to the port.
2. Press [F4].

When a port has been selected for Quick View Scanning, an arrowhead displays in the QV column to indicate so. When a port is deselected, the arrowhead disappears.

#### • **F5 Name:**

For convenience in remembering which PC is attached to a particular port, every port can be named. The *Name* function allows you to name the currently highlighted CPU Port (if it doesn't already have a name), or to modify/delete the Port Name if it does. To edit a Port Name:

1. Use the Navigation Keys or Mouse to move the highlight bar to the port you want (you can use the *F3 List* function to broaden or narrow the port selection list).
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**

When you press [F6] a submenu appears that allows you to configure the OSD settings. To change a setting, use the Up and Down Arrow Keys or mouse to move the highlight bar to it, then press [Enter] or Double Click the left mouse button.

Selecting *Port ID Display Duration*, *Port ID Display Position*, *Port ID Display Mode*, and *Scan Duration* brings up submenus of their own with choices for you to select. Move the Highlight Bar to the choice you want, then press [Enter] or Double Click the left mouse button. An icon appears before the choice to indicate that it is the currently selected one.

The settings are explained in the table below:

Setting	Function
Port ID Display Duration	Determines how long a Port ID is displayed for. There are two choices: 3 Seconds - which displays the Port ID for 3 seconds after a port change has taken place; and Always - which displays the Port ID at all times.
Port ID Display Position	Allows you to position where the Port ID is shown on the screen. After you highlight this item and press [Enter], the menu disappears and the Port ID is displayed. Use the Arrow Keys or the Mouse to position the Port ID display, then press [Enter], or Double Click with the left Mouse button to lock the position and return to the Set submenu.
Port ID Display Mode	Selects how the Port ID is displayed. There are three choices: the Number plus the Name; the Number alone; or the Name alone.
Scan Duration	Determines how long the display dwells on each port when it cycles through the selected ports in Quick View Scan Mode. The available options are: 3, 5, 10, 15, 20, 30, 40, and 60 seconds.
Clear Name List	Clears all Port Names from the Name list. You are asked to confirm before the procedure goes on. 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 defaults. You are asked to confirm before the procedure goes on. 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.

When you have finished making your selections, press [Esc] to return to the OSD Main Menu.

### Factory Default Settings:

The factory default settings are as follows:

Setting	Default
Port ID Display Duration	Always On
Port ID Display Mode	The Port Number plus the Port Name
Scan Duration	5 Seconds

# Appendix

## Station Numbering Table

The first Master View Pro (the one that the console connects to), is considered the *First Station*; the Master View Pro that daisy chains to it is considered the *Second Station*; the Master View Pro daisy chained to the *Second Station* is considered the *Third Station*, etc. Switches 1 - 5 of the DIP Switch located on the Master View Pro's rear panel are used to set the Station Number of each daisy chained unit, as indicated in the table below (0 = On; 1 = Off):

Station	SW1	SW2	SW3	SW4	SW5
1	ON	ON	ON	ON	ON
2	OFF	ON	ON	ON	ON
3	ON	OFF	ON	ON	ON
4	OFF	OFF	ON	ON	ON
5	ON	ON	OFF	ON	ON
6	OFF	ON	OFF	ON	ON
7	ON	OFF	OFF	ON	ON
8	OFF	OFF	OFF	ON	ON
9	ON	ON	ON	OFF	ON
10	OFF	ON	ON	OFF	ON
11	ON	OFF	ON	OFF	ON
12	OFF	OFF	ON	OFF	ON
13	ON	ON	OFF	OFF	ON
14	OFF	ON	OFF	OFF	ON
15	ON	OFF	OFF	OFF	ON
16	OFF	OFF	OFF	OFF	ON
17	ON	ON	ON	ON	OFF
18	OFF	ON	ON	ON	OFF
19	ON	OFF	ON	ON	OFF
20	OFF	OFF	ON	ON	OFF
21	ON	ON	OFF	ON	OFF
22	OFF	ON	OFF	ON	OFF
23	ON	OFF	OFF	ON	OFF
24	OFF	OFF	OFF	ON	OFF
25	ON	ON	ON	OFF	OFF
26	OFF	ON	ON	OFF	OFF
27	ON	OFF	ON	OFF	OFF
28	OFF	OFF	ON	OFF	OFF
29	ON	ON	OFF	OFF	OFF
30	OFF	ON	OFF	OFF	OFF
31	ON	OFF	OFF	OFF	OFF
32	OFF	OFF	OFF	OFF	OFF

## Troubleshooting

Symptom	Possible Cause	Action
Pressing the Hot Keys gets no response under OSD.	DIP Switch 6 is set to OFF.	Make sure that DIP Switch 6 is set to ON.
Pressing the Hot Keys gets no response.	The connection from the selected port to the target PC has been broken, or the PC is turned OFF.	Check the Online LED for the selected port. If it is not lit: 1. Manually press one of the Select switches to connect to a PC that is powered ON. 2. Check the cables to make sure they are all properly connected.
	Improper keyboard reset.	Reset the keyboard (and mouse) by simultaneously pressing and holding Select switches 1 and 2 on the First Stage unit for three seconds. This can be done as often as necessary. Unplug the keyboard connector from the Console Keyboard Port, then plug it back in.
	Improper Master View Pro reset.	Turn off all units and wait five seconds before turning them back on. Note: If a PC uses a mouse protocol sensitive operating system [such as NT], it may be necessary to restart it after turning the units back on.
	Incorrectly keying in the Port ID.	1. Be sure to release both Ctrl Keys simultaneously. 2. After the Ctrl + Ctrl combination, be sure to key in the Port ID and press [Enter] within six seconds.
Mouse is not responding.	Improper mouse reset.	Reset the mouse (and keyboard) by simultaneously pressing and holding Select switches 1 and 2 on the First Stage unit for three seconds. This can be done as often as necessary.
Port LEDs 1-4 flash repeatedly	Power On Self Test problem.	See the information on p. 7 of this manual.

## Specifications

		CS-1004	CS-1008	CS-1016
Power Consumption		DC 9V 500mA	DC 9V 600mA	DC 9V 800mA
PC Connections	Direct	4	8	16
	Max. (via Daisy Chain)	128	256	512
Port Selection		Front Panel Switches: Hot Keys On Screen Display		
LEDs	Power	1		
	On Line	4	8	16
	Selected	4	8	16
Connectors	Console	1 x 6 pin mini-DIN Female (PS/2 Style Mouse) 1 x 6 pin mini-DIN Female (PS/2 Style Keyboard) 2 Earphone Jacks (Mic. and Speaker) 1 HDB-15 Female (std. VGA/SVGA)		
	CRU Ports	4 DB 25 Female	8 DB 25 Female	16 DB 25 Female
	Daisy Chain Ports	2 DB 25 Male/Female		
	Scan Interval (OSD Select)	3, 5, 10, 15, 20, 30, 40, 60 sec.		
Operating Temperature		5 ~ 40°C		
Storage Temperature		-20 ~ 60°C		
Humidity		0 ~ 80% RH, Noncondensing		
Enclosure		Metal		
Weight		2650g	2850 g	3850g
Dimensions (L x W x H)mm		483x150x44.5(19"1 U)		483x150x69(19"2 U)

## PREVENTING RADIO & TV INTERFERENCE

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

### **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.

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