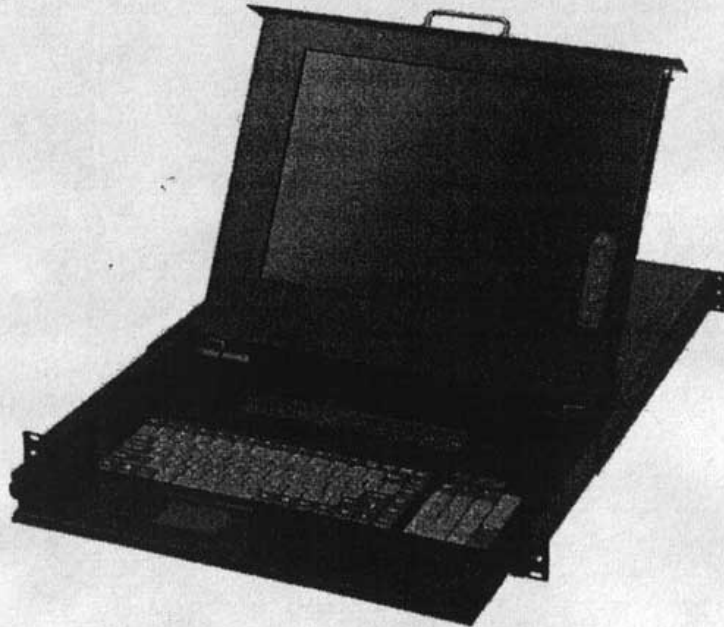




LCD KVM SWITCH



DC IC-1504 / DC IC-1508 / DC IC-1516
DC IC-1704 / DC IC-1708 / DC IC-1716

USER MANUAL
English

LCD MONITOR SPECIFICATIONS

Size	15 inch	17 inch
Screen Type	TFT	TFT
Contrast	500:1	450:1
Brightness	250 cd/m ²	300 cd/m ²
View Angle	110°	110°
Resolution	1024x768@75Hz	1280x1024@75Hz
Response Time	16 ms	12 ms
Display Color	16.7 M	16.7 M

OPERATION

Keypad Define

Power key: Use this key to turn on or off the LCD monitor.

Menu key: Use this key to open the OSD menu or return to a previous menu or exit the OSD menu.

Up key: Use this key to highlight an item in the menu, move a highlighted function up, or increase the numeric value (parameter) in certain menu.

Down key: Use this key to highlight an item in the menu, move a highlighted function down, or decrease the numeric value (parameter) in certain menu.

Enter key: Use this key to enter next menu or highlight a confirmed function. If the screen is not in a full screen graphic mode (such as in a DOS) or is connected with an allocator, the position of the appeared image may be adjusted automatically and then deviated. By then, it is necessary to enter into the OSD menu to manually adjust the level or vertical position and phase.

OSD Control Function List (DC IC-15xx)

1. Contrast
2. Brightness
3. Display Adjust: V-Position, H-Position, Phase, Clock, Auto Adjust, Return
4. Color Control: 9300K, 6500K, User, Auto Color, Return
5. Language: English, Deutsch, Français, Italiano, Español, Chinese, Return
6. OSD Adjust: OSD V-Position, OSD H-Position, OSD Timeout, Return
7. Audio Control: Mute, Volume, Return
8. Reset
9. Exit

OSD Control Function List (DC IC-17xx)

1. Contrast
2. Brightness
3. Auto Adjust
4. Phase/Clock: Phase, Clock.
5. H/V Position: H Position, V Position.
6. Misc:
 - Information
 - OSD Timer
 - Color Temperature: 5500K, 6500K, 9300K.
 - Language: English, Deutsch, Français, Italiano, Español, Chinese, Japanese.
 - Display Mode
7. Reset

BRIEF INTRODUCTION

The KVM Switch allows you to control several sets of personal computers by a keyboard, a mouse and a monitor. In the meantime, you just need to connect the cable and turn on the power to control up to 256 sets of personal computers without installing any additional interface card or software.

Easy Installation

The 3-in-1 CPU Connector (VGA, Keyboard and Mouse) can save the installation time and space and assure the correct signals. The universal AC power input of 100~240VAC, 50Hz~60Hz saves you the trouble of finding the space for installing the Power Adaptor. You can install a cascade to facilitate expansions or transportation without requiring a cascade cable or changing the KVM configurations.

On-Screen Display (OSD) Menu

The embedded OSD control module lets you name the PC and KVM and modify the KVM configuration, and the security mode can prevent others from turning on the KVM by mistake and switching the linked PC from the OSD. Most conveniently, the OSD not only supports keyboard operations, but also supports mouse clicking.

Enhanced Video Quality

The special video circuit design supports resolution up to 1024×768, 75Hz, and also keeps the same quality under the Cascade architecture.

PACKAGE INSIDE

KVM Switch	x 1
USER Manual	x 1
Power Cord	x 1
F/W Update Cable	x 1
Rack-Mount Brackets	x 2
Screws (for Brackets)	x 6
Key	x 2

FEATURES

- The keyboard, mouse and 15" LCD monitor was built-in on KVM switch.
- Standalone machine controls up to 4/8/16 sets of PCs.
- Cascade controls 64/128/256 sets of PCs.
- Through OSD, you can use the hot key, mouse clicking and push button on front panel to switch PCs.
- Monitors PC status by Auto Scan function.
- Supports resolution of 1024×768, 75Hz and independently supports EDID & DDC2 of each PC.
- Each Port on the panel of the KVM has independent push buttons and LED lamps for easy switch and identification.
- Complies with the height of the 1U chassis specification and installable with a hanging stand into a 19" chassis system.
- Requires no additional software or hardware.
- Supports hot plug; not necessary to turn off the original system regardless of a newly installed PC or KVM.

EQUIPMENT REQUIREMENTS

Computer System

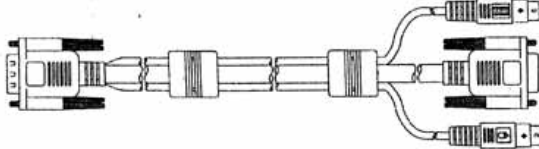
- A Supported VGA, SVGA, XGA, SXGA or Multisync Video Card.
- A PS/2 (mini-DIN 6Pin) Mouse port.
- A PS/2 (mini-DIN 6Pin) or AT (5-Pin DIN) with AT-to-PS/2 Adaptor Keyboard port.

Cable

- 3-in-1 KVM Cable; please contact your local distributor for detailed specification and length.

Connected to CPU port of KVM

Connected to Console port of PC or Slave KVM



SPECIFICATIONS

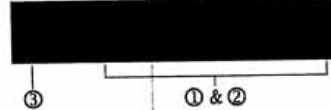
		DC IC-1504	DC IC-1508	DC IC-1516
CPU Connector	3-in-1 HD-15 (Female)	4	8	16
Console Connector	Monitor	15" TFT LCD		
	Mouse	Touch pad module		
	Keyboard	Standard 104 key		
Port Selection Keys on Front Panel		4	8	16
LEDs	Port	4	8	16
	Power	1	1	1
OSD		Built-in		
Video Resolution		1024x768@75Hz		
Dimensions		600x447x48 mm		
Weight		12.2 Kg	12.25 Kg	12.3 Kg
Operating Temp		5-40°C		
Storage Temp		-20-60°C		
Humidity		10-80%RH, non-condensing		

SPECIFICATIONS

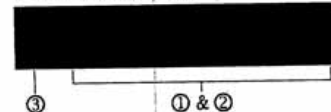
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CPU Connector	3-in-1 HD-15 (Female)	4	8	16
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	Mouse	Touch pad module		
	Keyboard	Standard 104 key		
Port Selection Keys on Front Panel		4	8	16
LEDs	Port	4	8	16
	Power	1	1	1
OSD		Built-in		
Video Resolution		1280x1024@75Hz		
Dimensions		600x450x48 mm		
Weight		13.3 Kg	13.35 Kg	13.4 Kg
Operating Temp		5-40°C		
Storage Temp		-20-60°C		
Humidity		10-80%RH, non-condensing		

CONFIGURATION

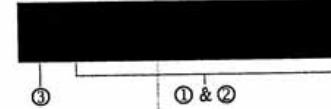
DC IC-xx04 Front View



DC IC-xx08 Front View



DC IC-xx16 Front View



1. Port Selection Switches

- Press the push button to directly switch to the corresponding PC.
- In the cascade architecture, if the port is connected to KVM but not PC, then the push button will not respond.
 - Simultaneously press Push Buttons 1 and 2 to directly enter the OSD Control Mode.

2. Port LEDs

These Port LEDs are built in the Port Selection Switches.

Online: A green light indicates that the PC or KVM connected to the corresponding port is on and operating.

Selected: A red light indicates the situation of being connected to the port.

- If a port is connected to KVM, then the red light of that port will not on.
- Besides the special mode, the whole system architecture only has one red light (indicating that the Console is connecting to the PC) or has no red light (when powering on the KVM for the first time.)

3. Power LED

An blue light indicates that the KVM is operating.

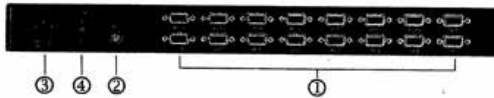
DC IC-xx04 Rear VIEW



DC IC-xx08 Rear VIEW



DC IC-xx16 Rear VIEW



1. CPU Port

Install the cable connected to a PC here.

2. Update Port

The port provides a firmware update function.

3. AC Power Jack

The AC Power is applicable for 100~240VAC, 50Hz~60Hz

4. Power Switch

Power On/Off the LCD KVM.

INSTALLATION

• Standalone

1. Make sure that the power switch at the rear panel of the KVM is OFF. Plug an end of the AC power cord into the KVM and the other end to an AC power supply.

2. Make sure to power off the PC and then install the 3-in-1 cable to each of the PC one by one.

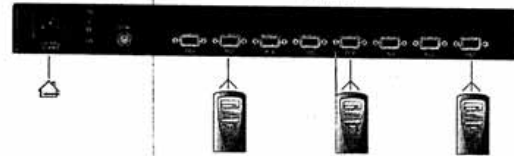
Note: If the ON-LINE LED (Green) of any port of a PC is on, then we recommend you to power off such PC (Turn off the power switch of the power supply of the PC or unplug the power cable of the PC) or wait till Step 5 to install that particular PC.

3. Turn on the power switch at the rear panel of the KVM.

4. Power on the PC.

Note:

It is not necessary to power down the whole system for install a new PC or KVM thereafter. All you need is to make sure that the new PC or KVM is OFF during the installation. If the KVM powers down due to external factors (such as power failure or the power of the KVM is turned off), we recommend you to reinstall the whole system.



■ **Connection in Series**

1. Make sure that the power switch at the rear panel of the Master KVM is OFF. Plug one end of the AC power cord to the KVM and the other end to the AC power supply.
2. Make sure the power switches at the rear panels of all slave KVMs are OFF. Plug one end of the AC power cord to the KVM and the other end to the AC power supply.
3. Install the Master KVM to the 3-in-1 cable (same as the cable for connecting the KVM to the PC) in the middle of the Slave KVMs.
4. Make sure the power of the PC is OFF and then install the 3-in-1 cable to each PC one by one.

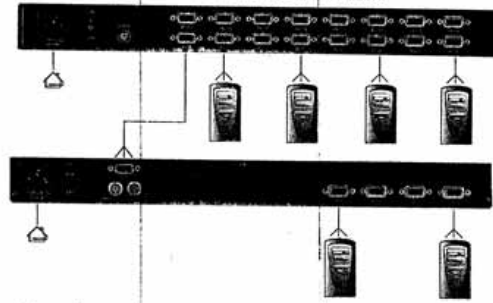
Note: Install the PCs on the master or the PCs on the Slave first. If the ON-LINE LED (Green) of any port of a PC is on, then we recommend you to power off such PC (Turn off the power switch of the power supply of the PC or unplug the power cable of the PC) or wait till Step 8 to install that particular PC.

5. Turn on the power switch at the rear panel of the master KVM.
6. Turn on the power switch at the rear panel of the slaver KVM.
7. Power on the PC.

Note: It is not necessary to power down the whole system for install a new PC or KVM thereafter. All you need is to make sure that the new PC or KVM is OFF during the installation. If the KVM powers down due to external factors (such as power failure or the power of the KVM is turned off), we recommend you to reinstall the whole system.

Note:

It is noteworthy that there are two levels available.



■ **Expansion**

1. PCs

It is not necessary to power down the KVM or other computer connected to the KVM system. You only need to power off the desired PC and connect the PC to the CPU port of the KVM in parallel by the 3-in-1 cable, and then power on the PC.

2. Slave KVM

Make sure the power switch at the rear panel of the KVM is OFF. Use the AC power cord (3-in-1 cable) to connect the console port of the slave KVM to the CPU port of the master KVM. Power on the slave KVM.

For example:

If you want to install one Slave KVM and three PCs, then just follow Step 2 of the foregoing method to add the slave KVM and install the PCs one by one according to Step 1.

OPERATION

Port Selection

The LCD KVM provides four switching methods: Manual Key, Hot Key, Mouse Clicking and OSD.

Manual Key

It is the simplest switching method. You just need to press the Port Selection Switch on the front panel of the KVM. The Selection LED (Red) is on, indicating that you are switching to the corresponding port.

Note:

1. The Port Selection Switch functions only when connected to a PC.
2. If the Offline Skip of the OSD System Setting is Auto, then you cannot make any switch when pressing an offline Port Selection Switch.
3. For Auto Scan Mode, none of the Port Selection Switches functions.

Hot Key and Mouse Clicking

Hot key and mouse clicking are applicable for switching a small section. You can select the SVS (Smart View Setting) from the OSD of the PC first (for a quick switch of PC) and use the keyboard (press the Ctrl key twice) or the mouse (press and hold the middle button while pressing the left or right button) to switch to the previous or next set of PC.

Note:

The mouse must have at least 3 keys. As far as you select a PC with the SVS, you can use this method for the switch.

OSD (On Screen Display)

Press the NumLock on the keyboard twice or simultaneously press the Push Buttons 1 and 2 of the Port Selection Switch on the KVM panel to start the OSD. Use the Up, Down and Enter keys on the keyboard to switch or directly move the mouse to the target PC, and then double click the left button.

Additionally, you also can use the numeric keys to enter the direct switch. For example, if you want to switch a PC to the Slave KVM port 04 under the Master KVM port 03, then you can start the OSD and then directly enter 0304. If you are using a standalone machine, then just enter the first two digits.

More OSD related information are given in the following OSD sections.

On Screen Display (OSD)

Start

Press the NumLock twice or the Port Selection Switches 1 and 2 on the panel to enter the OSD.

Note:

If you have modified the Hot Key for starting the OSD and are unable to enter the OSD by pressing NumLock, then you can start the OSD by using the Port Selection Switch first, and then press F9 to enter into the System Setting to modify the options of the OSD Entry Hot Key.

Operation

You can operate the options by keyboard or mouse. For the keyboard operation, besides the common Up and Down keys, there are special function keys such as Enter, Space Bar, Function Key (F1, F4, ...) under the OSD remark field. For the mouse operation, the left key refers to Enter and the right key refers to Exit. For example, move the mouse point to your desired PC, and click the left key. The selection bar will move to that position and then click the left key again for the execution.

Note: You must use the keyboard to complete the two functions: Name Edit and Password.

- F5: Clear Name List; Use the F5 key to clear the values of all Name fields. If you clear the name list under the Master screen, then you will also clear the name lists under all slaves. If you clear the name list under a certain slave, then you only clear the name list under that particular Slave KVM.
- F1: Smart View; It switches the Smart View Setting.
- System Setting Menu

System Setting	
Channel Display Mode:	Full
Channel Display Time:	5 Sec
Auto Scan Time:	5 Sec
OSD Entry Hot Key:	Number Lock
Hot Key Switching:	OFF
Mouse Clicking:	OFF
Beeper Sound:	ON
Offline Skip:	Manual
OSD Language:	English
Security Level:	None
Console Lock Time:	5 Min
↑↓: Move pace: Change Esc: Exit	
F1: Information F4: OSD Position	
F8: Restore Default Setting	

Item	Description	Default	Other Selection
Channel Display Mode	For Port Switching, Auto Scan and OSD Close, the Monitor will show the Channel Information and mode selection.	Full	Number, Name
Channel Display Time	It shows the time for displaying channel information.	5 Sec	10Sec, Always, None
Auto Scan Time	For Auto Scan, it shows the residing time for each port.	5 Sec	10Sec, 20Sec, 30Sec, 60Sec
OSD Entry Hot Key	Select to turn on the hot keys of the OSD control screen.	NumLock	Scroll Lock, Shift, None
Hot Key Switching	Turn on/off the "ctrl" hot keys on the keyboard for switching computer functions.	OFF	ON
Mouse Clicking	Turn on/off the keys of the mouse for switching computer functions.	OFF	ON
Beeper Sound	Turn on/off the beeper sound function.	ON	OFF
Offline Skip	Set the offline skip function to auto or manual.	Manual	Auto
OSD Language	Select the language for the OSD.	English	Français, Deutsch, Italiano, Español
Security Level	Select the security mode and level.	None	Low, High
Console Lock Time	The lock time of console port.	5 Min	1Min, 3Min, 10Min, 30Min, 60Min

- *1: You can select this option only if the Security Level is not "None".
- F1: Information; It provides the model name and F/W version information, which is helpful for users to understand the updated version.
- F4: OSD Position; You can enter the OSD position to make adjustments; we recommend you to unify the resolution for all computer display mode, and use this function again to adjust the OSD position. You can use the Up, Down, Left or Right keys on the keyboard or a mouse to move the OSD position.
- F8: Restore Default Setting; Restore the factory default settings. Please note that all name lists will be cleared and the system settings are set to the default settings as shown in the table above.
- Esc: Exit; Exit the system setting and close the OSD. If you have made changes in this option, the system will ask whether or not you want to save the setting before the selected option is effective.
- Auto Scan Mode:** You can start the OSD first and press "F4" to enter the Auto Scan Mode. If you want to scan the PC, you must use the Smart View Setting to select the Auto Scan Time in the System Setting for the residing time, which includes 5 sec, 10 sec, 20 sec, 30 sec and 60 sec. You can adjust the Channel Display Mode and Channel Display Time from the Channel Display mode. By then, all keys on the panel, keyboard and mouse are not operable. You can only use the ESC key to exit the Auto Scan Mode.
- Security Mode:** Switch the Security Level from "None" to "Low" in the System Setting, and enter your Password ("A~Z", "0~9", a maximum of 12 characters), and the security will be effective after you confirm the Password. The use of the Console Lock Time is to set the time to enter a security mode after the keyboard and mouse has idled for a predetermined time. Once you enter into the security mode, you need to enter the correct password before you can move the mouse or enter any key from the keyboard. You need a correct password to operate the whole system normally.