

# ***Wide Screen SMK 4 Series***

**Monitor-Keyboard Drawer  
With Single /8/16 Ports KVM Switch**



***User's Manual***

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# SMK 4 Series Specification

## Specification:

<b>Size:</b>	1U 19" Rackmount Type
<b>Keyboard:</b>	Notebook type, 105 Keys
<b>Mouse:</b>	Touchpad
<b>Dimension:</b>	442.4 x 44 x 508 mm (WxHxD)
<b>Weight:</b>	SMK 420: 11 kgs (28lb) SMK 480/490: 11.5 kgs (29.2lb)
<b>Power Supply:</b>	100/220V auto-switching, 50W
<b>Protection:</b>	Front panel with Thumb screw Rail with self-locking device LCD back-light will be turned-off when the screen set is turned down
<b>Operating Temperature:</b>	0-50°C (32-122°F)
<b>KVM switch</b>	Build-in single or 8 or 16 ports KVM switch

## Display:

<b>Diagonal Size:</b>	17"(16:9)
<b>Resolution:</b>	1280 x 1024
<b>Contrast Ratio:</b>	600:1
<b>Brightness:</b>	450 nits
<b>Frequency:</b>	60Hz
<b>Color: Native</b>	16.2M colors
<b>Control:</b>	OSD

## Accessories:

	420 --Single Port	480 --8 Ports	490 --16 Ports
<b>KVM Drawer Unit</b>	X 1	x 1	x 1
<b>Extension Bracket</b>	X 2	x 2	x 2
<b>Power Cord</b>	X 1	x 1	x 1
<b>VGA HDDB 15pin</b>	X 1	x 8	x 16
(shared with PS2 keyboard and Mouse )			
<b>Screws package</b>	X 1	x 1	x 1
<b>External power adaptor</b>	X 1	X 1	X 1
<b>User Manual</b>	X 1	x 1	x 1

## Features

- Support Microsoft Intellimouse, Microsoft Intellimouse Explorer, Logitech Net Mouse or the other fully compatible MS mouse.
- Support DOS, Win3.X, Win95/98/98SE/2000/ME/XP, WinNT, Netware, Unix, Linux
- Support iMAC, Power MAC and Sun Microsystems with USB port (Need work with USB-PS2 adapter)
- Hot Plug - Add PCs or Remove Connected PCs for Maintenance without Powering Down the KVM switch or PCs.
- Very High Video Quality - Up To 1920X1440, Bandwidth: 200MHz
- No Software Required - easy PC selection via On Screen Display Manual, Push Buttons, Hot Keys.
- Support eight characters password protection and search PC server name
- Auto Scan Mode for monitoring PCs and flexible Scan time from 5~99 seconds.
- Keyboard status restored when switching PCs
- LED Display for easy status monitoring
- Buzzer sound for switching port confirmation.
- Built-in one extra daisy chain port and no waste any PC port
- No DIP switch setting needed and auto detect daisy chain bank

## Technical Specifications

Model No.	KVM Unit	
PC Port	8	16
Console Port	1	
PC Port Connector (All Female Type)	VGA HDDB 15pin ( shared with PS2 keyboard and Mouse )	
Daisy Chain Port Connector (All Female Type)	PS/2 Keyboard mini Din 6 pin PS/2 Mouse Mini Din 6 pin VGA HDDB 15pin	
PC selection	On Screen Display Menu, Hot Key, Push Button	
PC Port LED(on line)	1	
On Screen Display Control	Yes	
Scan Intervals	5~99 Sec.	
Keyboard Emulation	PS2	
Mouse Emulation	PS2	
VGA Resolution	1920X1440	
Bandwidth	200MHz	
Daisy Chain MAX Level	8 levels	
MAX PC Connection	120	128

## System Requirements

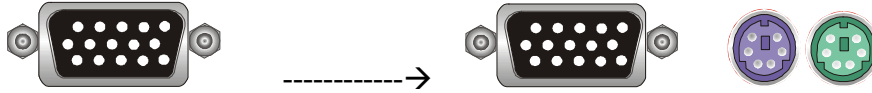
### Specifications:

Model No.	KVM Unit
Console side	One VGA Monitor One PS/2 Keyboard One PS/2 Mouse
Computer side	16 HDDB 15 pin male to one HDDB 15 pin and Mini Din 6 pin special cables

## Cable Diagrams

### PC Port Special Cable:

HDB15 pin male to one HDDB 15 pin male and Mini Din 6 pin special cables



### AT to PS/2 keyboard adapter: (Optional)

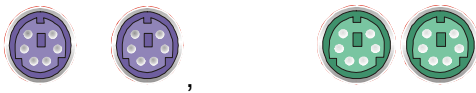
Din 5 pin Male to Mini Din 6 pin Female



### Daisy Chain Cable:

#### PS/2 Cable:

Mini Din 6 pin Male to Male

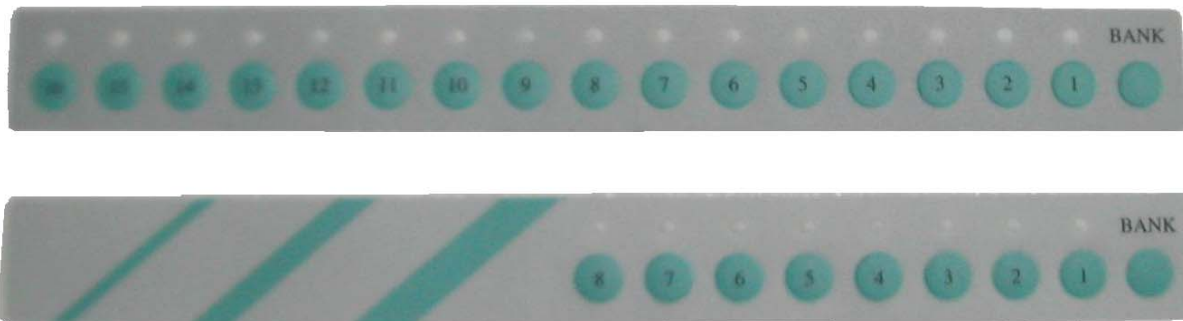


### VGA Cable:

HDB15 pin Male to Male



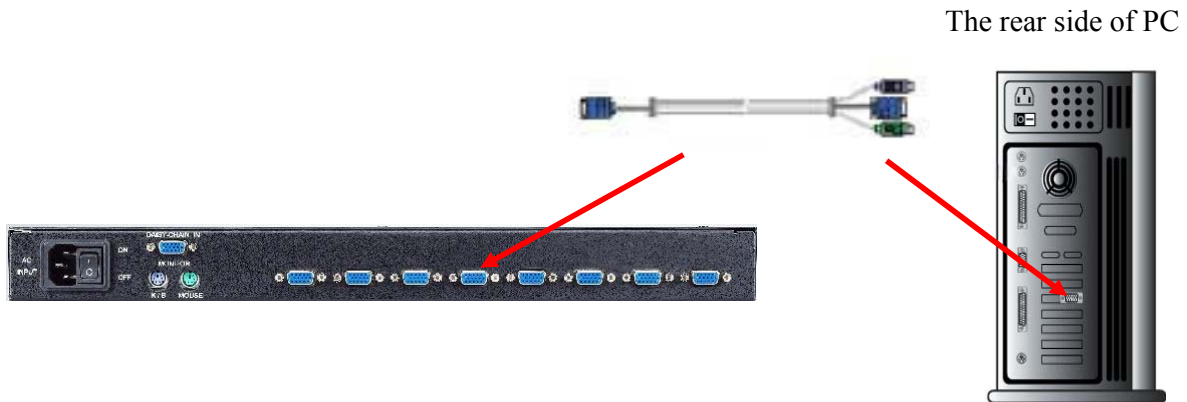
## Switching Indication



# Hardware Installation

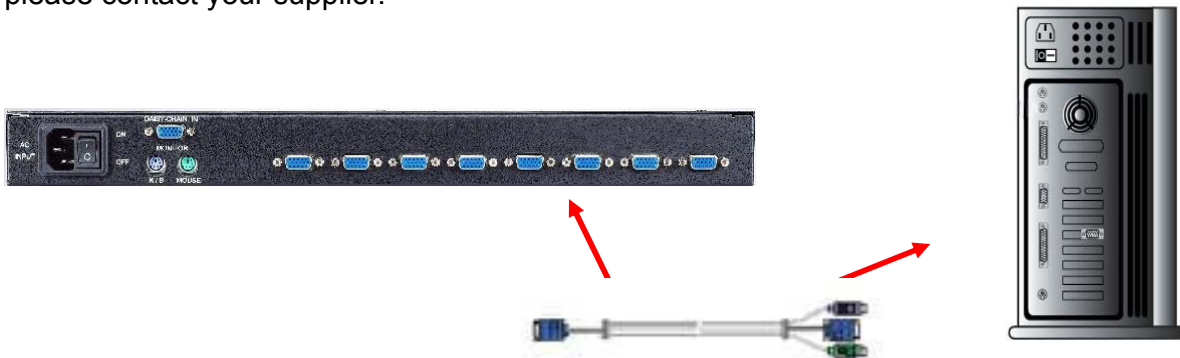
## Step 1

Now the PC connections will be made with the monitor (VGA) connections first. Connect a VGA cable (15-pin HDBB Male / Male) with the Male side to both of the PC and the rear panel of the SMK-590R to the connector labeled VGA. Repeat this for all PCs.



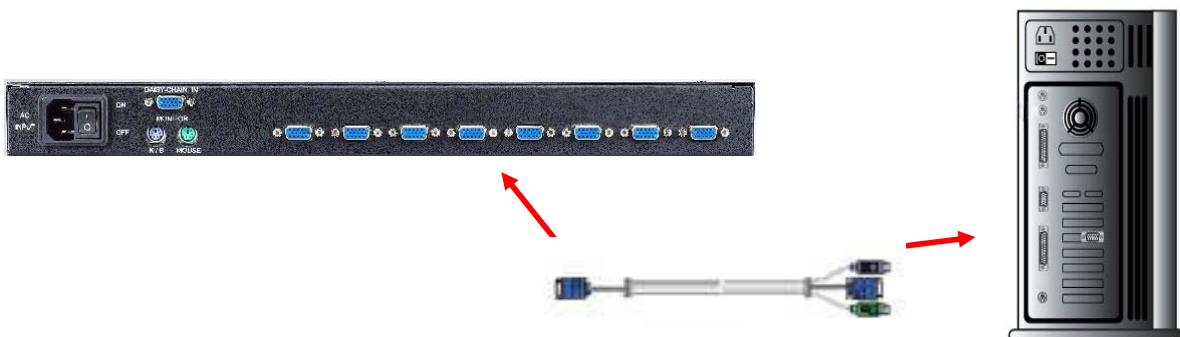
## Step 2

Connect the first computer's mouse cable to the **KVM Unit**. If using a PS/2 cable, connect one end to the PS/2 mouse port on the computer, and the other end to the PC1 PS/2 mouse port on the back of SMK-590R. If using a serial mouse cable (optional), connect one end to a DB-9 serial port on the computer, and the other end to the PC1 DB-9 serial mouse port on the back of the **KVM Unit**. If you need Serial DB-9 to PS2 Mini Din 6 pin adapter, please contact your supplier.



## Step 3

Connect the first computer's keyboard cable to the **KVM Unit**. Using another PS/2 cable connect one end to PS/2 keyboard port on the computer, and the other end to the PC1 keyboard port on the back of KVM unit. If your computer has an AT type keyboard port, you will need a PS/2 to AT keyboard adapter.



#### Step 4

Double-check all of the connections. You can check the color of keyboard and mouse connector to make sure the keyboard and mouse cables go to the correct ports.

#### Step 5

Repeat step 2 to 4 for the remainder of the computers.

#### Step 6

Attach the power supply to the KVM unit and plug the other end into an electrical receptacle. Now you will see the LED for Port 1 light up, and you will hear a beep. Switch on your monitor.

## Usage

### The power on state of 16 port KVM switch:

When you power on KVM switch, it will ask you the password, **the default password value is eight zero –“ 00000000 “**. Please key in eight zero and enter the same value at retype field.

**Note:** Before you are not familiar with the operation of OSD manual, please don't change the password – i.e. keep default eight zero (00000000) value. Otherwise, if you have set the password and unfortunately forget the password, you need send it back to your distributor for maintaining the password.

### The Push Buttons :

Pressing the individual button cyclically through all the ports or the respective button to get PC port you want.

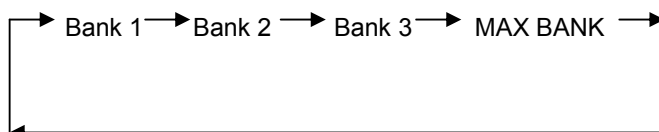
### PC port LED Indication :

You can press the button in order like mentioned-above diagram.

When you select the PC port and this PC is shut down or this PC port is disconnected to the PC, the selected PC port LED will flash. When you select one of eight PCs ports and this PC is powered on, the selected PC port LED is lit.

### 7-Segment BANK

When you would like to change to the next bank KVM switch, please press “ BANK “ push button cyclically to the destination bank. It will be changed from bank 1 to the maximum daisy chain level and then to press “ BANK “ push button once back to the bank 1.



**Reset Button** ( ■ (“ Bank ” button) and ■ (“ PC 1 ” button ) ):

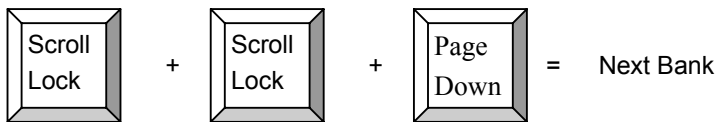
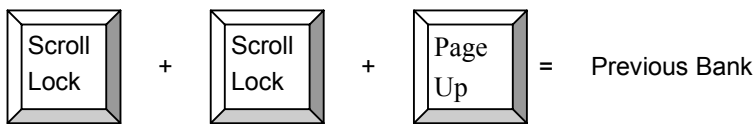
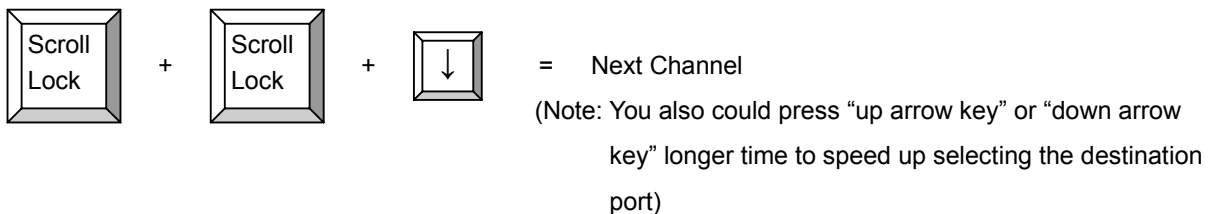
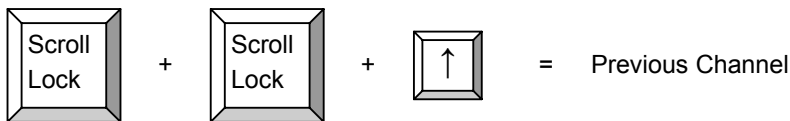
To press both “PC1” button and “bank” button of master bank simultaneously can reset KVM switch. This reset action will not only return KVM switch back to initial state --- Check the password, but also re-check all of slave banks which connected to mast KVM Switch. If you add a new KVM Switch as a slave bank, please use reset button of master KVM Switch to automatically assign a new ID to it. You can view this new slave bank go through OSD menu. The PC ports of KVM Switch does not be reset by reset command.

**Keyboard Hot Key Commands:**

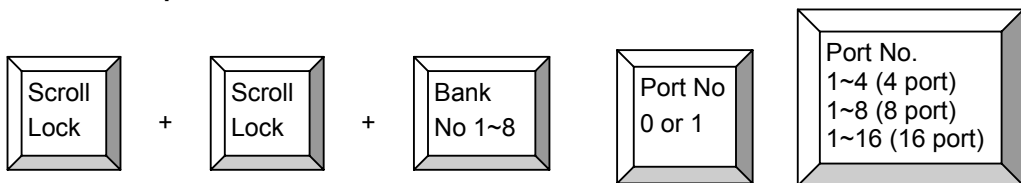
You can also conveniently command KVM switch by switching ports through simple key sequences. To send commands to KVM switch, **the “SCROLL LOCK” key must be pressed twice within 2 seconds.** You will hear a beep for confirmation and the keyboard is in hot key mode. If you have not pressed any key in hot key mode within 2 seconds (It means to key in any key follows up “Scroll Lock” “Scroll Lock” key ), the keyboard will back to under Operation System control state.

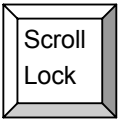
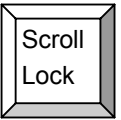

**Below are the different hot key commands:**

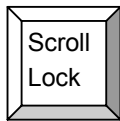
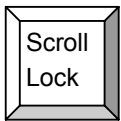
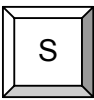
↔ **within 2 seconds** ↔



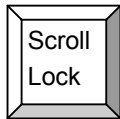
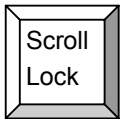

**To select PC port:**



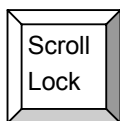
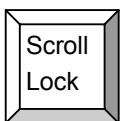
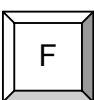
 +  +  = Beeper  
(Note: The default Beeper function is ON and beeper control is only for available for Scan Mode )

 +  +  = Auto Scan

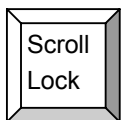
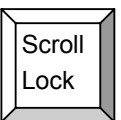
**To get out of Auto Scan Mode, Press any key or SPACE bar.**

 +  +  = OSD setting back to factory default value  
(Note: Not including password)

## ROM REFLASH

 +  +  = Search the same PC name  
(Note: Search PC name starting from 1<sup>st</sup> PC port)

 FIND: 

 +  + Space bar = On Screen Display Menu

### Example :

A. To access a computer attached to Port 4 of the three Bank. You can press through hot key as below:

Scroll lock + Scroll lock + 3 + 04

B. To access a computer attached from Bank 3 to Bank 4, You can press through hot key as below:

Scroll lock + Scroll lock + Page Down

### Note:

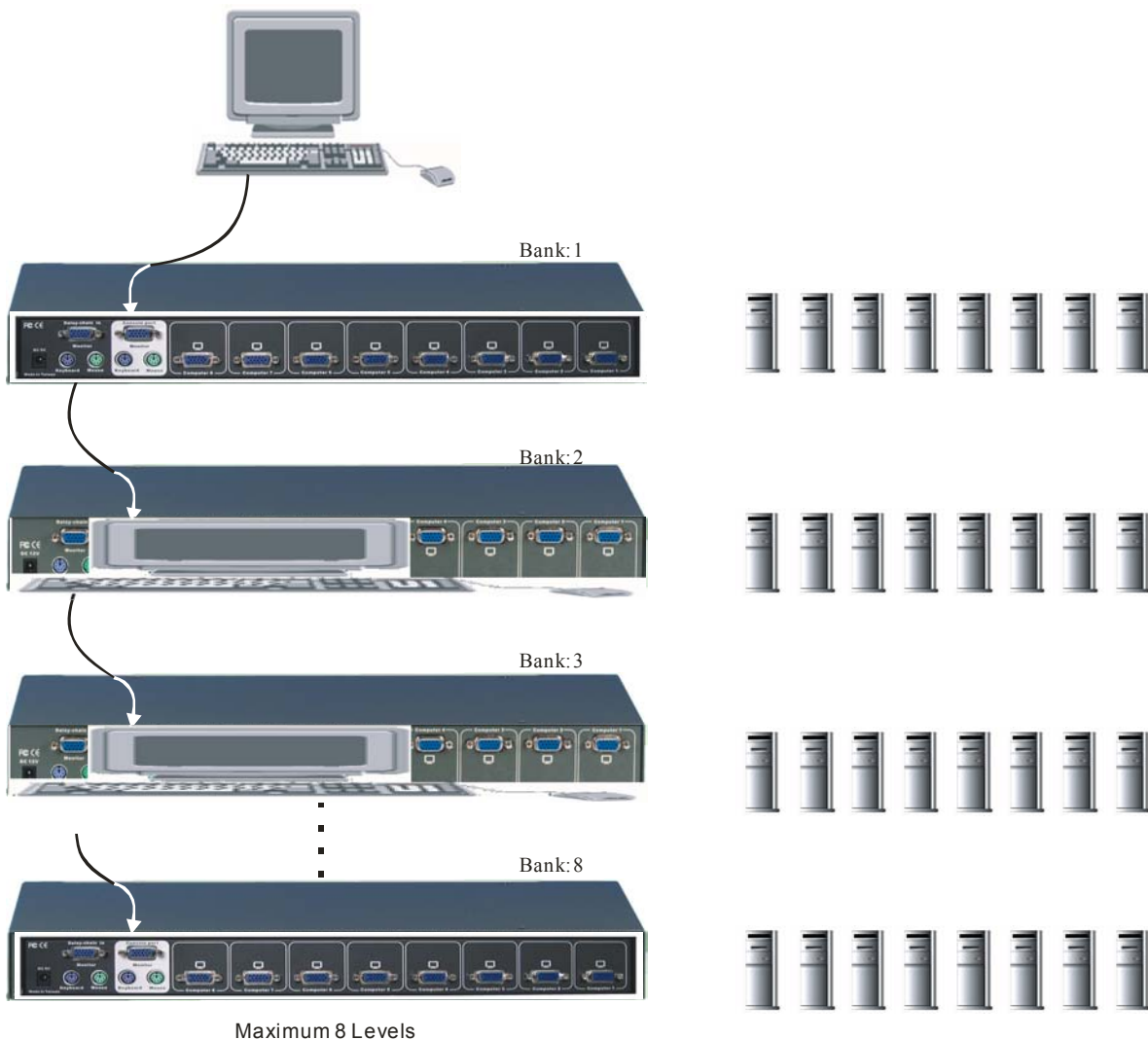
Bank no. and Port no. selection must be made using the numeric keys on the keyboard. Numeric keys on the keypad are not available as a hot key command.

## Daisy Chain Connection Diagram

Please use the attached 3 feet 3-in-one daisy chain Cable Kit to daisy chain the KVM Switch.

- A. Connect Keyboard, Mouse and Monitor to the console port (white color block) of bank 1 KVM switch.
- B. Use one end of 3-in-one Cable Kit to connect the daisy chain port of bank 1 and the other end for the console port (white color block) of bank 2 KVM switch.
- C. Please repeat item B to daisy chain more bank as you want. But, the maximum daisy chain bank is eight levels.
- D. Before chaining the slave bank up to six banks, you need a VGA extender between the fifth bank and the sixth bank to enhance the VGA signal.

(Note: If you would like to daisy chain 8 port and 16 port PS2 or USB KVM Switch together, the master bank must be 16 port PS/2 or USB KVM Switch)



## Hot Plug

The KVM Switch supports “Hot Plug” function for easy addition or removal of PCs. The user can arrange or maintain PCs as follows:

- A PC can be disconnected and reconnected to the same or different port of the KVM unit without having to power it off as long as it is not the Daisy-chain port or pass through port.
- The pass through port PC (i.e. The pass through port means the console port is connected to PC directly) is powered on. Before you go hot plug function, please switch to this pass through port to next port (or say emulation port ) and then switch back to the pass through port.
- You may unplug the mouse or the keyboard from the console port and plug it back in at any time.

### NOTE:

Some O.S. (Operation Systems) like SCO Unix are unable to support “ Hot Plug ” function. If you apply “Hot Plug” to this kind of O.S., it will cause unpredictable behavior or shut down the PC. Before attempting to use “ Hot Plug ” , please make sure your O.S. and mouse software driver supports the “Hot Plug” function.

## On Screen Display Operation

- OSD menu can be popped up in powered on PC port or non-powered on PC port or empty PC port. The resolution of OSD menu is fixed to 1024X768 for non-powered on PC port or empty PC port.
- When you pop up the OSD menu window go through the hot key, you will see the following small window on your monitor.

**BANK : 1**

01	SYSTEM	01	02	☀SYSTEM	02
03	☀SYSTEM	03	04	☀SYSTEM	04
05	☀SYSTEM	05	06	SYSTEM	06
07	SYSTEM	07	08	☀SYSTEM	08
09	SYSTEM	09	10	SYSTEM	10
11	☀SYSTEM	11	12	☀SYSTEM	12
13	SYSTEM	13	14	☀SYSTEM	14
15	☀SYSTEM	15	14	SYSTEM	16

OSD : 10 SEC.      CHANGE PASSWORD  
SCAN: 10 SEC.      CONSOLE ON/OFF

ESC : QUIT              ENTER : COMPLETE  
TAB : NEXT              INSERT : EDIT

↑/↓: PORT SELECT

PgDn/PgUp: BANK SELECT

- The 1<sup>ST</sup> line bar is Bank no.

The 2<sup>nd</sup> block is your PC system name list. You will find the system number list from 01 to 04 ( if the current box is 4 port) or from 01 to 8 (if the current box no. is 8 port) or from 01 to 16 (if the current box no. is 16 port). You can define your PC name in maximum 8 characters. The factory default of 16 port KVM switch PC name is from “SYSTEM 01”, “SYSTEM 02” ,..., “SYSTEM 16” and 8 port KVM switch is from “SYSTEM 01”, “SYSTEM 02” ,..., “SYSTEM 08”. Besides,

- c. The sun symbol “☀” near to the PC name represents the PC system is powered on. To use up arrow key “↑” or down arrow key “↓” to select port for destination PC name. After you have selected the PC port already, you can press the ENTER Key to switch the PC port you want immediately

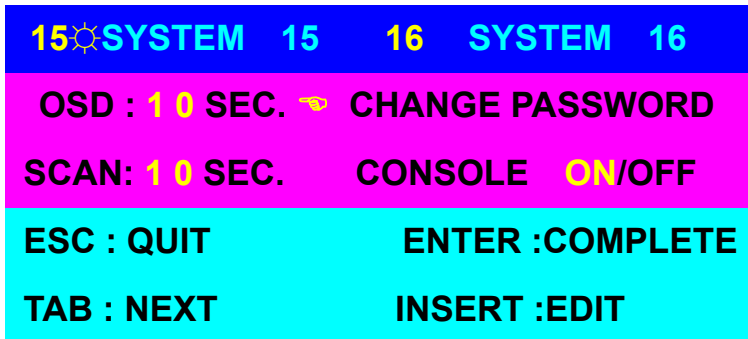
To use “PgUp” key or “PgDn” key for selecting previous or next Bank no. (or Box No.)



To press “INS” key for editing PC name.

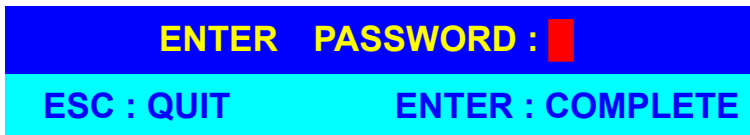
After finishing the edit, please press “Enter” key for saving information.

To use “Tab” key to select items like Bank, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc...

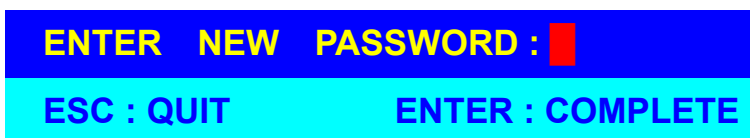


- a. The “OSD: 10 SEC” means that the PC system name exists 10 sec on your monitor. You can modify it from 05 sec to 99 sec. The factory default value is 10 sec..

- b. The “SCAN TIME” means that scan interval from one PC port to next PC port. The default SCAN time is 10 sec and the maximum scan time is 99 sec.
- c. The “CHANGE PASSWORD” is for user to avoid all PC systems to be intruded by the other person. The default password is 8 digits “00000000”.



There is an enter password window showed out when you select this item and then press the Enter. The maximum password is eight digits. After you key in the password already and press the Enter key, there is another window for confirming your typed password.



**RETYPE NEW PASSWORD :**

**ESC : QUIT**

**ENTER : COMPLETE**

You need to retype the password again for rechecking your previous key-in password is matched or not.

**NEW PASSWORD COMPLETE**

**ESC : QUIT**

**ENTER : COMPLETE**

- d. The “ CONSOLE ON/OFF “ means to manage the console of KVM switch. If you select “ CONSOLE ON “, it means that any user can use the console. If you select “ CONSOLE OFF “(factory default OFF state), it means that any user will not be allowed to use the console unless you enter the password. When you enter the password already and pass the KVM switch authentication, the CONSOLE will be set to ON. After you finish using KVM switch, please don't forget to set up CONSOLE ON state to OFF state. Besides, if current CONSOLE is ON state and you reset KVM switch, the CONSOLE will be set up ON state back to OFF state.
- e. When you finish the set up of PC name and get out of OSD setting mode, you will find the PC name showed at the up-left corner of monitor. Now, you can use ESC key to clear the message right away if you don't need it.

**102**  **SYSTEM 02**

- f. If you want OSD returning back to factory default value, you can execute “SCROLL LOCK”, “SCROLL LOCK” , “R” keys in order. The bank seven segment LED on the front panel will be flashed during the refresh process.

**ROM REFLASH**

When the OSD value back to default setting, the bank seven segment LED on the front panel will stop flashing

## Troubleshooting

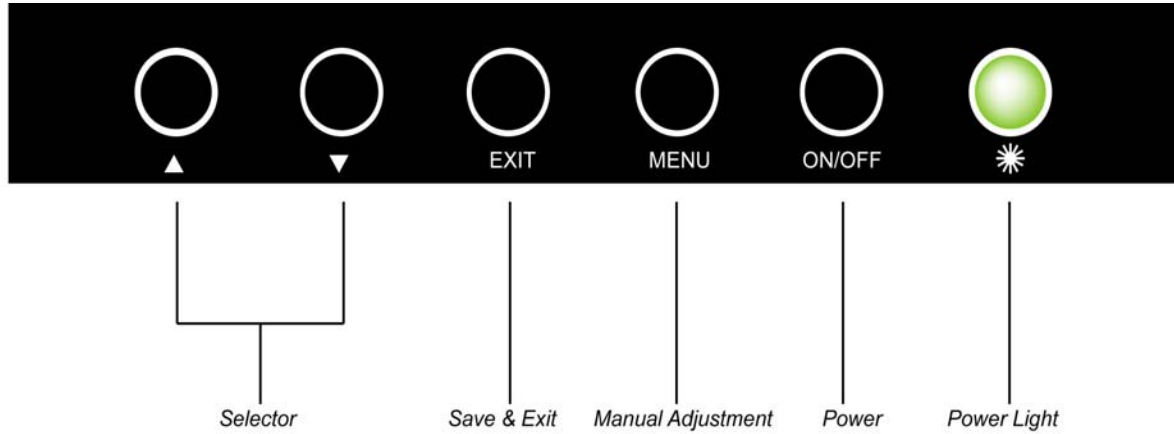
1. The recommended VGA cable distance is 5 meters maximum without ghosting and degradation. Normally, the cable length is based on driver capacity of your VGA card. If you need longer VGA cable, please use VGA extender to accomplish your applications.
2. The recommended PS/2 cable distance is 5 meters maximum. Normally, the cable length is based on driver capacity of your motherboard PS/2 port. If you need longer PS/2 cable, please use PS/2 extender to accomplish your applications.
3. Don't press any keys on the keyboard while the selected computer is booting up. Otherwise, it might cause the keyboard error or keyboard is not detected at PC side.
4. The computer boot up fine, but keyboard doesn't work
  - Make sure the keyboard works when directly plugged into the computer.
  - Try a different keyboard, but use only 101, 102 or 104-key keyboard.
5. The Mouse is not detected during PC boot up.
  - Make sure the mouse works when directly plugged into the computer.
  - Make sure the mouse is a true PS/2 mouse. A combo mouse will work just as long as it is set for PS/2 mode with the correct adapter. Try a different mouse.
  - Avoiding moving the mouse or pressing the mouse buttons when switching ports.
  - Avoiding switching ports during shutting down the PC process.
  - When you switch one PC port to another PC port, the best scan time setting need to be set to 5 sec. or more. Normally, the VGA monitor change one resolution mode to another will take one or two seconds. So, the scan time is not recommended to below 5 seconds.
6. The power switch is off, but the switch still works fine or power adapter is unplugged from the switch, but the switch still works fine.

KVM Switch unit draws the power source from power adapter and all PC's PS/2 port. Some PC's PS/2 port can support enough power for the switch, but some PC's PS/2 port ( like laptop, notebook computer...etc.) is unable to supply enough power for the switch. In order to make sure the system can work steadily, please do not set power switch to off state or remove the power adapter from the switch.

Although the PCs connected to KVM Switch unit are able to support enough power to the stand alone switch, KVM Switch unit still needs a power adapter for daisy chain more banks.

7. If forgetting the " password " you typed, please contact your supplier.

## Display OSD Illustration

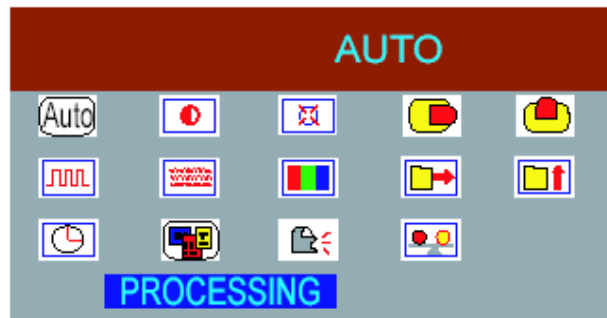


- 1.Manu Key:Use this Key into the manual mode.*
- 2.Exit Key:Use this Key to save & exit the select mode.*
- 3.Selector Key:To adjust the item in the manual mode.*
- 4.Power Key:"Turn-On" or "Turn-Off" the monitor.*
- 5.Power Light:It shows the monitor is on when green;  
It shows the monitor is turning off when red.*



**AUTO Mode**


3. Press "MENU", the monitor will show up OSD menu.



1. Press "MENU" again, the monitor will adjust by itself automatically.
2. Press "EXIT" to save the setting and out of OSD.



**BRIGHTNESS**

1. Press "MENU", it show up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter " BRIGHTNESS" to adjust.




**Adjust BRIGHTNESS**

1. Press ▲ to increase the brightness. Press ▼ to decrease the brightness.
2. Press "EXIT" to save the setting and out of OSD.



**CONTRAST**

1. Press "MENU", it show up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter " CONTRAST" to adjust.




**Adjust CONTRAST**

1. Press ▲ to increase the contrast.  
Press ▼ to decrease the contrast.
2. Press "EXIT" to save the setting and out of OSD.



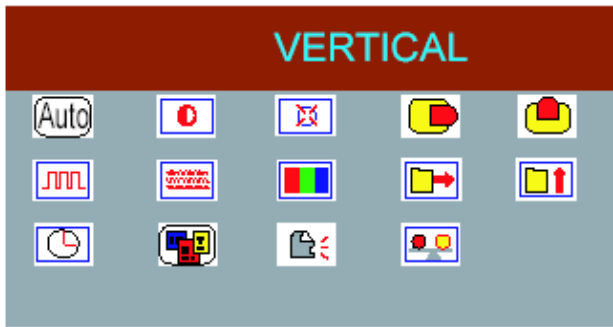
**HORIZONTAL**

1. Press "MENU", it show up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter " HORIZONTAL" to adjust.




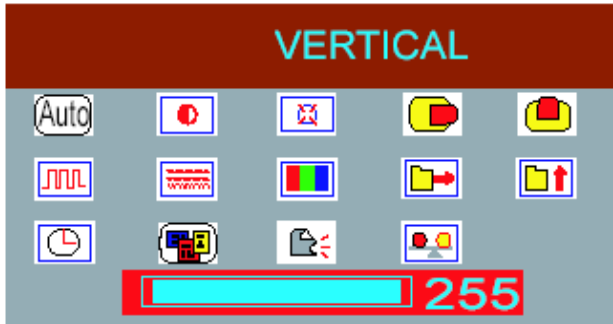
**Adjust HORIZONTAL**

1. Press ▲ or ▼ to adjust the position.
2. Press "EXIT" to save the setting and out of OSD.



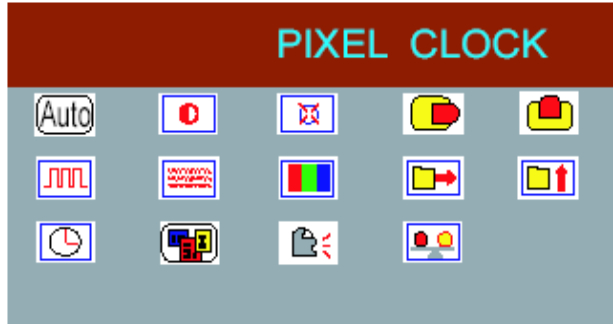
**VERTICAL**

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter "VERTICAL" to adjust.




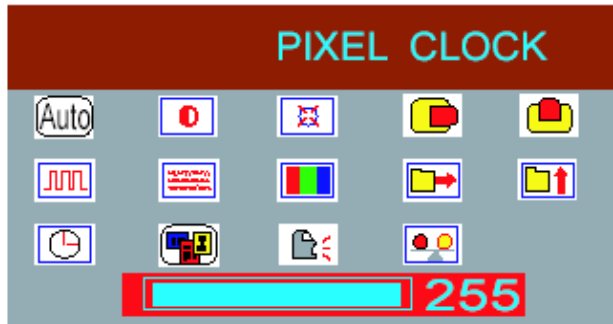
**Adjust VERTICAL**

1. Press ▲ or ▼ to adjust the position.
2. Press "EXIT" to save the setting and out of OSD.



**PIXEL CLOCK**

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter "PIXEL CLOCK" to adjust.

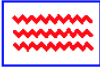


**Adjust PIXEL CLOCK**

1. Press ▲ or ▼ to adjust the frequency.
2. Press "EXIT" to save the setting and out of OSD.



**PHASE**

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter "PHASE" to adjust.




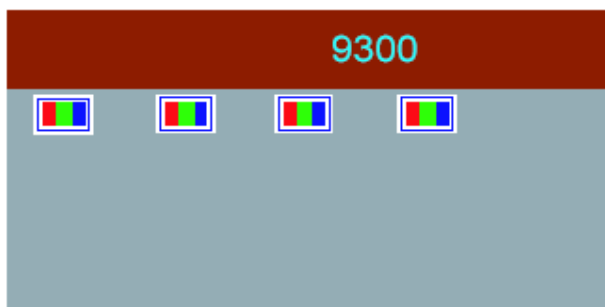
**Adjust PHASE**

1. Press ▲ or ▼ to adjust the phase.
2. Press "EXIT" to save the setting and out of OSD.

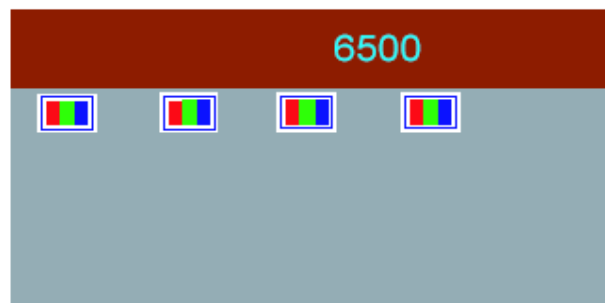


**COLOR**

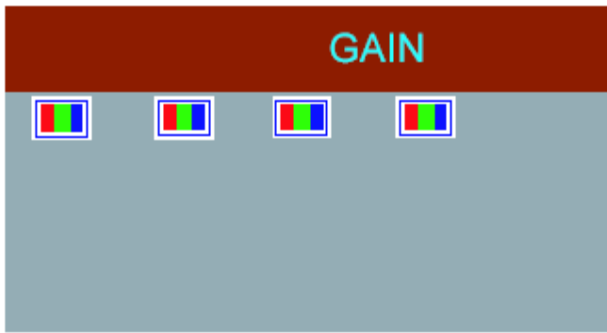
1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter "COLOR" to adjust.



4. Press ▲ to get to "9300", it would be more red, while after pressing "MENU"

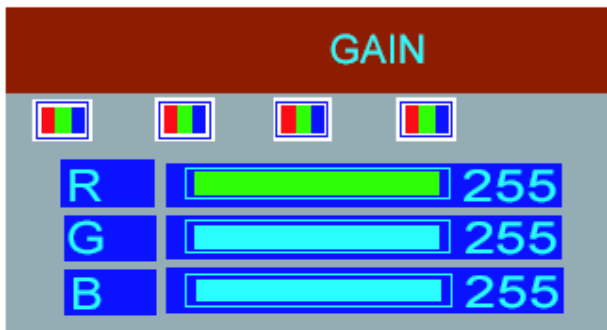


5. Press ▲ to get to "6500", it would be more blue, while after pressing "MENU"



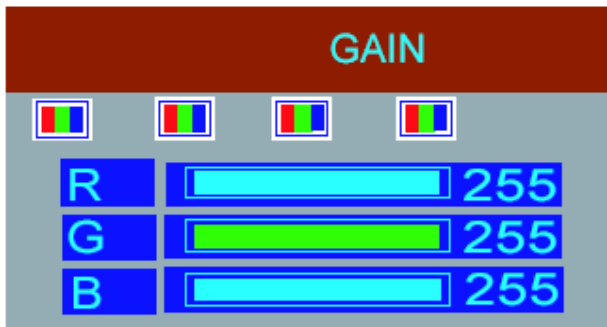
**GAIN**

1. Press ▲ to select "GAIN", and press "MENU" to enter the adjustment.
2. Press "MENU" again, and select "R" "G" or "B" to adjust.
3. Press ▲ or ▼ to change the setting, and press "EXIT" to save the setting and out off the OSD.



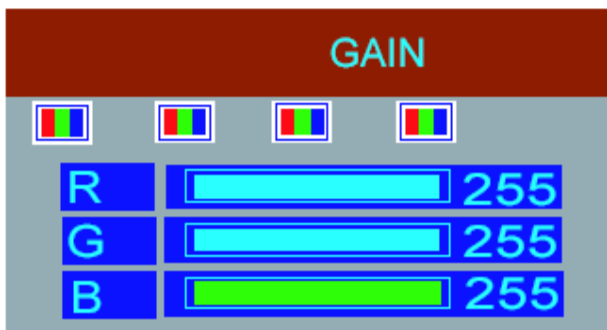
**Adjust R**

1. Press ▲ or ▼ to do the adjustment.
2. Press "EXIT" to save the setting and out off the OSD.



**Adjust G**

1. Press ▲ or ▼ to do the adjustment.
2. Press "EXIT" to save the setting and out off the OSD.



**Adjust B**

1. Press ▲ or ▼ to do the adjustment.
2. Press "EXIT" to save the setting and out off the OSD.



**OFFSET**

1. Press ▲ to select "GAIN", and press "MENU" to enter the adjustment.
2. Press "MENU" again, and select "R" "G" or "B" to adjust.
3. Press ▲ or ▼ to change the setting, and press "EXIT" to save the setting and out off the OSD.



**Adjust R**

1. Press ▲ or ▼ to adjust the setting.
2. Press "EXIT" to save the setting and out of OSD.



**Adjust G**

1. Press ▲ or ▼ to adjust the setting.
2. Press "EXIT" to save the setting and out of OSD.

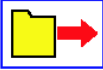


**Adjust B**

1. Press ▲ or ▼ to adjust the setting.
2. Press "EXIT" to save the setting and out of OSD.



### OSD HP

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter " OSD HP" to adjust.

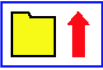


### Adjust OSD HP

1. Press ▲ or ▼ to adjust the setting.
2. Press "EXIT" to save the setting and out of OSD.



### OSD VP

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter " OSD HP" to adjust.




### Adjust OSD VP

1. Press ▲ or ▼ to adjust the setting.
2. Press "EXIT" to save the setting and out of OSD.



### OSD TIME

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter " OSD TIME" to adjust.




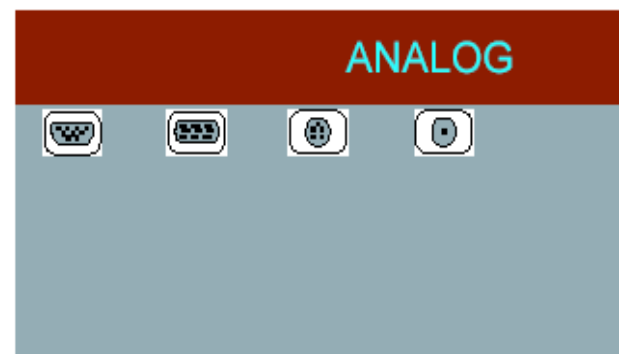
### Adjust OSD TIME

1. Press ▲ or ▼ to adjust the setting.
2. Press "EXIT" to save the setting and out of OSD.



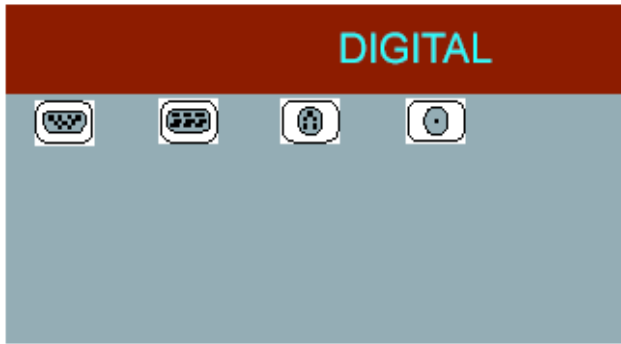
### INPUT SELECT

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter "INPUT SELECT" to adjust.
4. Press ▲ or ▼ to adjust the setting
5. Press "EXIT" to save the setting and out of OSD.




### ANALOG Mode

6. The ANALOG signal  It may input VGA signal of DB-15



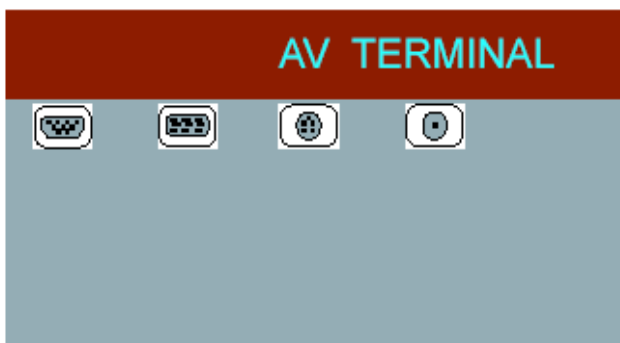
**DIGITAL Mode**

7. The DIGITAL signal   
 Press ▲ and ▼ to select that may input the DVI signal.



**S TERMINAL**

8. The S TERMINAL signal   
 Press ▲ and ▼ to select that may input the S TERMINAL signal.




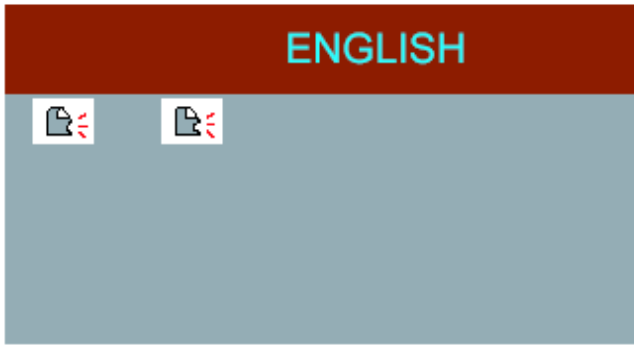
**AV TERMINAL**

9. The AV TERMINAL signal   
 Press ▲ and ▼ to select that may input the AV TERMINAL signal.



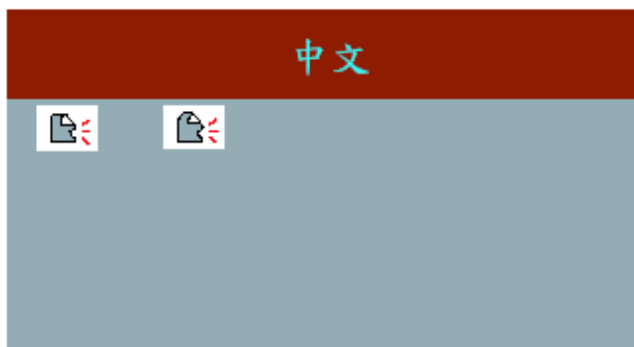
**LANGUAGE**

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again to enter "LANGUAGE" to adjust.



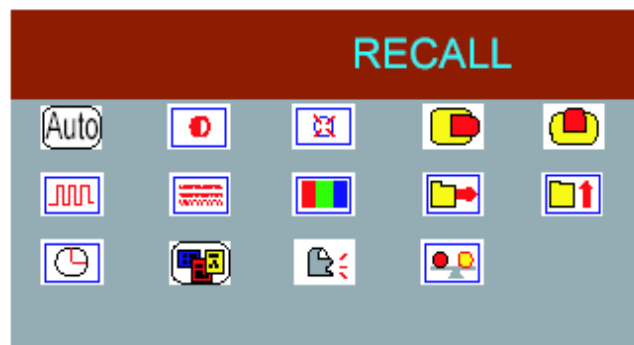
**ENGLISH**

1. Press ▲ and select English, and then press "MENU" to show up the word.
2. Press "EXIT" to save the setting and out of OSD.




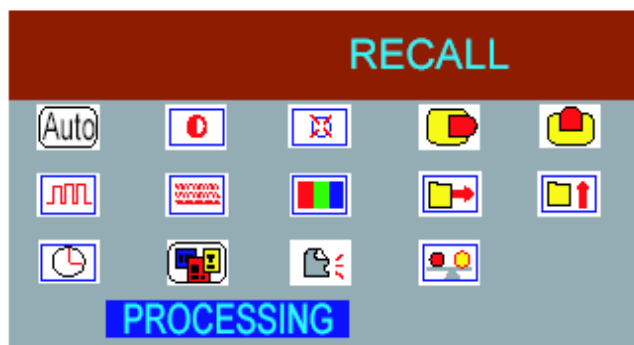
**CHINESE**

1. Press ▲ and select Chinese, and then press "MENU" to show up the word.
2. Press "EXIT" to save the setting and out of OSD.



**RECALL**

1. Press "MENU", it shows up OSD menu.
2. Press ▲ and select 
3. Press "MENU" again, the monitor will recall default setting.



4. Press "EXIT" again to save the setting and out off the OSD.