

Sylphit-Duo

DSK-Series

KVM Drawer

(with integrated KVM switch)



User Guide

Version 1.0

Table of Content

<i>Items included in unit shipment</i>	3
<i>System compatibility</i>	3
<i>Physical Installation</i>	4
<i>Product Detail</i>	5
<i>Computer connection</i>	6
<i>Initial power-up</i>	7
<i>Switching between computers</i>	7
<i>Hot-Key commands</i>	7
<i>On Screen Display operation</i>	10
<i>Video adjustments</i>	13
<i>Hot-Plug functionality</i>	20
<i>Troubleshooting</i>	20
<i>Certifications</i>	21

Items included in unit shipment

(1) Sylphit-Duo DS KVM Drawer

(8) or (16) **Sylphit** KVM cables (Blue HDDB male-15-pin [for Sylphit connection] to PS2/PS2/VGA [for computer connection])

(1) Power cord

(2) Extension mounting brackets

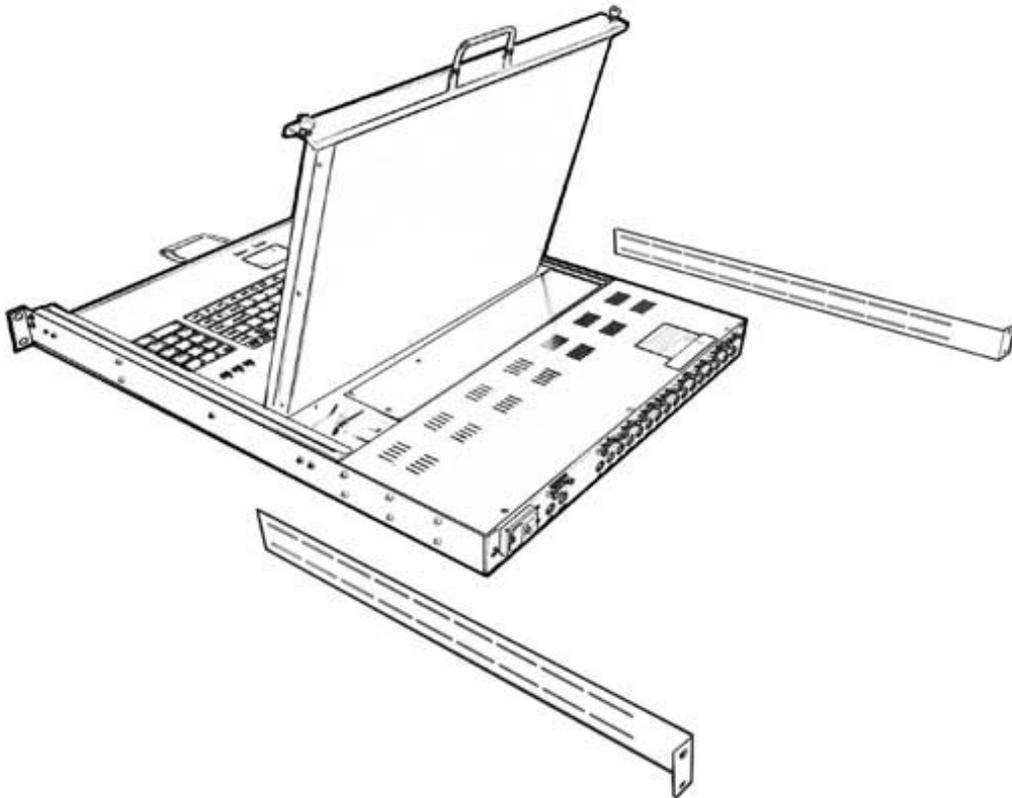
(8) Extension brackets' mounting screws

System compatibility

System	Video	Keyboard	Mouse
Sylphit-Duo DSK	Build-in VGA monitor	Build-in PS/2 keyboard	Build-in PS/2 mouse
Connected computers	HD15 (VGA)	6-pin MiniDIN (PS/2)	6-pin MiniDIN (PS/2)

Physical Installation

1. Measure the depth of the rack (distance between the front and the rear mounting rails) into which you are installing Sylphit-Duo.
2. Using extension brackets' mounting screws that came with the unit, attach one extension bracket to each side of the unit with four (4) screws, so that the unit's depth will (approximately) match the rack's depth. Keep the screws somewhat loose to allow some depth adjustment of the extension brackets.
3. Using mounting screws that came with your rack, mount Sylphit-Duo onto the rack's mounting rails, using 2 screws on each one of the four mounting corners. Adjust the depth of the extension brackets while mounting the rear section of Sylphit-Duo by sliding the extension brackets, to match the depth of the rack.
4. Once Sylphit-Duo two front mounting ears and two rear extension brackets are firmly installed onto the rack's rails, tighten the four screws connecting each extension bracket to each side of Sylphit-Duo.



Product detail



Computer connection

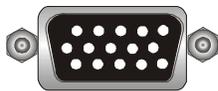
1. Use **ONLY** the Sylphit KVM cables that came with the unit to connect Sylphit-Duo DSK to your computers.
2. Make sure your computers are **powered-off** before connecting them to Sylphit-Duo DSK.



3. Identify two unique sides of Sylphit KVM cable:
 - One side has a **SINGLE** blue HDB15 connector (that looks like a VGA connector). This side connects to **Sylphit-Duo DSK**.
 - The other side has (1) teal PS/2 connector, (1) purple PS/2 connector, and (1) blue VGA connector. This side connects to your **computer**.



4. Plug the **SINGLE** blue HDB15 connector to anyone of Sylphit-Duo DSK ports numbered 1 through 8 (or 16).



5. Plug the teal PS/2 connector to the mouse port of your computer.
6. Plug the purple PS/2 connector to the keyboard port of your computer.
7. Plug the blue VGA connector to the video port of your computer.



8. Repeat steps 4 through 7 to connect all computers to all Sylphit-Duo DSK ports.
9. Power on the computers.
10. Power on Sylphit-Duo DSK.

Initial power-up

When initially powering-up Sylphit-Duo DSK, it will ask you for the password.

The default password is eight zeros – “00000000”.

Using the “0” key on the keyboard’s top row, key in eight zeros and hit the “Enter” key.

NOTE: Do not use the numeric keypad for entering the default password.

The default password can be changed or canceled by the administrator through OSD operation (see: On Screen Display operation, Page 10)

NOTE: If you are not familiar with the operation of OSD menu, please don’t change the password – i.e. keep the default eight zeros (00000000) value. Otherwise, if you have set a new password but unfortunately forget it, you’ll need to send Sylphit-Duo DSK to Rackit for password reset.

Switching between computers

Use the buttons numbered 1 through 8 (or 16) located above the keyboard to switch between computers. Pressing a button will select the computer connected to the corresponding port, and will switch Sylphit-Duo DSK console to control this computer and view its video.

Pressing a button of which its corresponding port is connected to a computer which is up and running, the selected port LED lights up solid.

Pressing a button of which its corresponding port is connected to a computer which is shut down or is disconnected, the selected port LED will flash.

Hot-Key commands

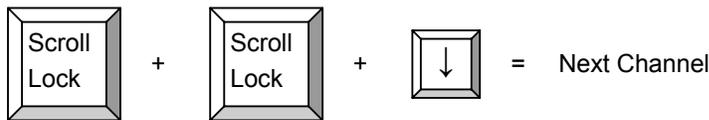
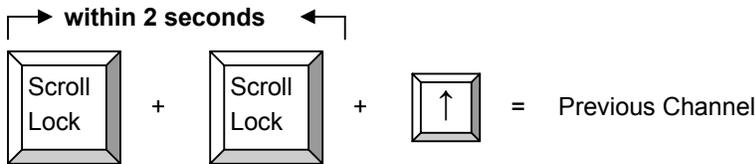
Many of Sylphit-Duo DSK switching capabilities can be achieved by invoking a command.

When in “Hot-Key Mode”, keyboard strokes are being sent to Sylphit-Duo DSK as opposed to being passed-through to the connected computer.

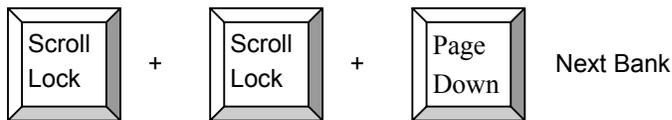
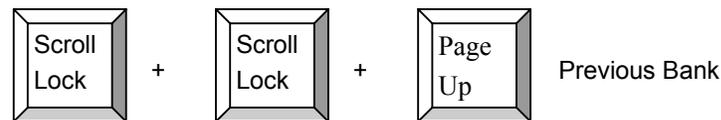
To enter into “Hot-Key Mode”, the “SCROLL LOCK” key must be pressed twice within two (2) seconds. You will hear a beep confirming Sylphit-Duo DSK is in “Hot-Key Mode”.

You must press the appropriate keyboard commands within the next two (2) seconds for the corresponding command to execute under “Hot-Key Mode”. If you don’t press any key in the “Hot-Key Mode” within 2 seconds, Sylphit-Duo DSK will exit “Hot-Key Mode” and the key stroke will not get executed (but rather passed to the selected computer).

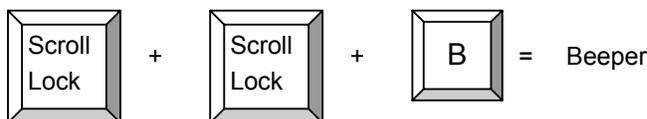
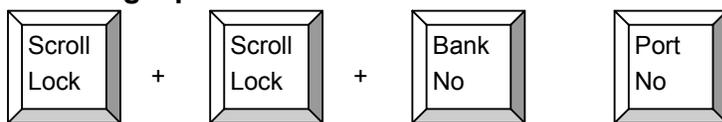
Below are the different hot key commands:



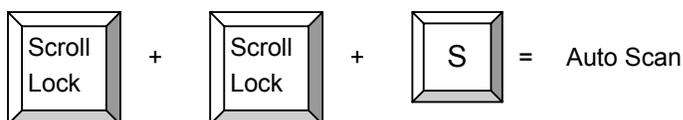
(Note: You also could press “up arrow key” or “down arrow key” longer time to speed up selecting the destination port)



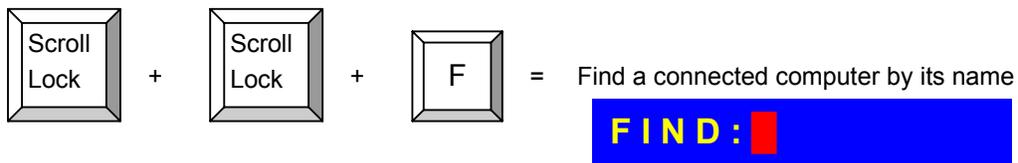
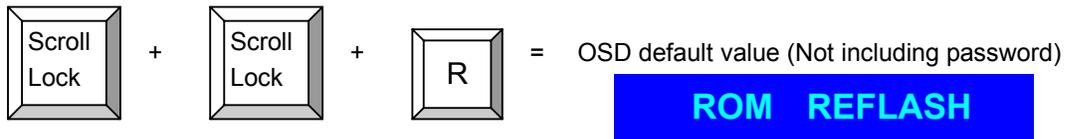
Selecting a port



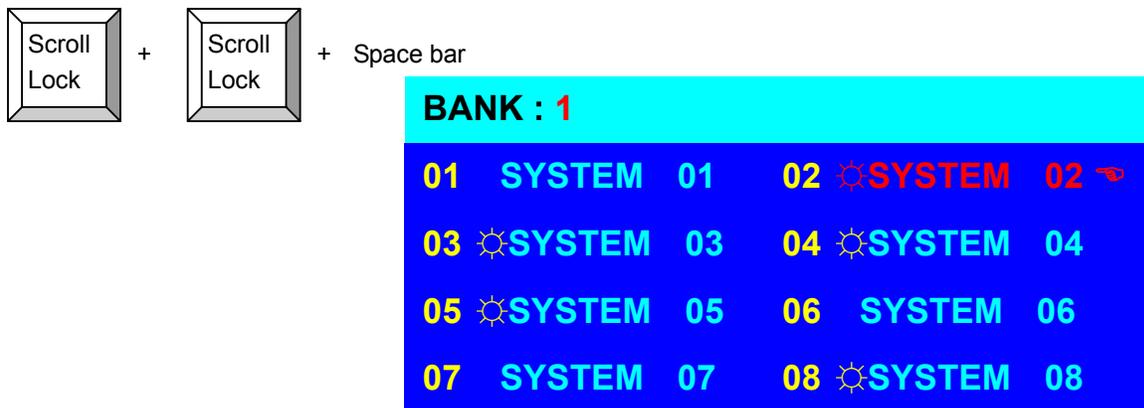
(Note: The default Beeper function is ON and beeper control is only available for Scan Mode)



To get out of Auto Scan Mode, Press any key.



Invoking the OSD menu



“Hot-Key” examples

A. To access a computer attached to port 6 of the 5th Bank:

Scroll lock + Scroll lock + “5” + “0” “ 6”

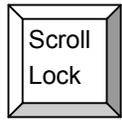
B. To access a computer attached to the selected port on a higher Bank:

Scroll lock + Scroll lock + Page Down

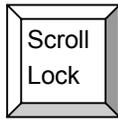
NOTE: Bank No. and Port No. selection must be made using the numeric keys on the top row of the keyboard. Numeric keys on the numeric keypad will not execute “Hot-Key” commands.

On Screen Display operation

→ within 2 seconds ←



+



+

“Space Bar” brings up the On Screen Display (OSD) menu.

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

a. The 1st line bar is Bank No.

b. The 2nd block is a list of computer systems, by name, initially named “SYSTEM 01” to “SYSTEM 08” (or “SYSTEM 16”). You can custom define computer names in up to eight (8) characters.

The sun symbol “☀” near to the computer’s name represents computer system that is powered on.

Selecting a computer by name

- Use arrow keys “↑” or “↓” to select a computer port by name.
- Press the ENTER key to immediately switch to the selected computer port.

↑/↓: SELECT PORT

Navigating between Banks of KVM switches

Use “PgUp” key or “PgDn” key for selecting previous or next Bank

PgDn/PgUp: BANK SELECT

Assigning a custom name to a computer port

- Use arrow keys “↑” or “↓” to select a computer port by name.
- Press “INS” key to edit the port’s name. When done editing, press “ENTER” key to save the new name.

ESC : QUIT

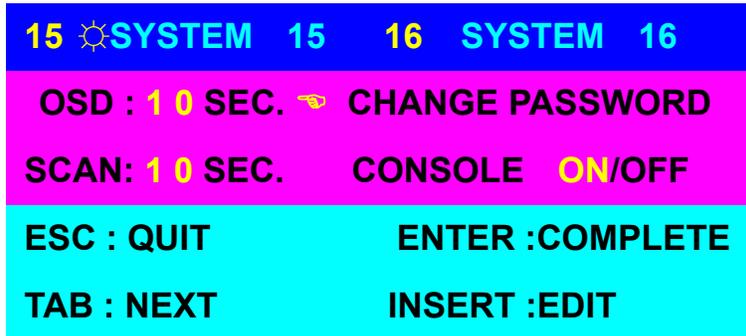
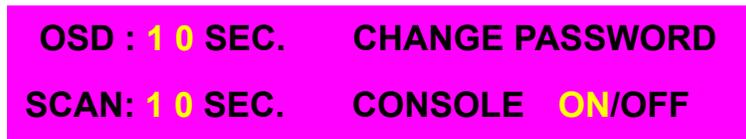
ENTER : COMPLETE

TAB : NEXT

INSERT : EDIT

Special functions

Use “Tab” key to select functions such as Bank, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc.



- a. “OSD: 10 SEC” means that the OSD window or port system name will display on the monitor for ten (10) seconds before disappearing. You can modify the display duration from 05 seconds to 99 seconds. The factory default value is 10 seconds.

- b. “SCAN TIME” refers to the scanning interval from one computer port to the next. The default SCAN time is 10 second and the maximum scan time is 99 seconds.
- c. “CHANGE PASSWORD” allows assigning a custom password for accessing the console. The default password is 8 zeros “00000000”.



An “ENTER PASSWORD” window is displayed.
Enter the current password, and press the “ENTER” key.

An “ENTER NEW PASSWORD” window is displayed. Enter the new password (maximum password is eight digits), and press the “ENTER” key.



A “RETYPE NEW PASSWORD” window is displayed. Retype the new password for confirmation, and press the “ENTER” key.



The new password has now been accepted by Sylphit-Duo DSK.



- d. **“CONSOLE ON/OFF”** controls the security mode in which Sylphit-Duo DSK operates. **“CONSOLE OFF”** (factory default) means that the use of Sylphit-Duo DSK is protected by the set password. Once the password is entered and authenticated by Sylphit-Duo DSK, any user can operate Sylphit-Duo DSK without being prompted for password (CONSOLE state is set to “ON”).

Once you are done using Sylphit-Duo DSK , if you want to apply password protection to Sylphit-Duo DSK , change the CONSOLE state to “OFF” before leaving the console.

Sylphit-Duo DSK is being reset, the CONSOLE state reverts to “OFF” state.

“CONSOLE ON” means that any user can access and use the Sylphit-Duo DSK without being prompted to enter a password.

- e. When you’re done setting up computer port names and you exit the OSD setting mode, the computer-port name is displayed at the up-left corner of the monitor. You can use “ESC” key to immediately clear the message from the screen.

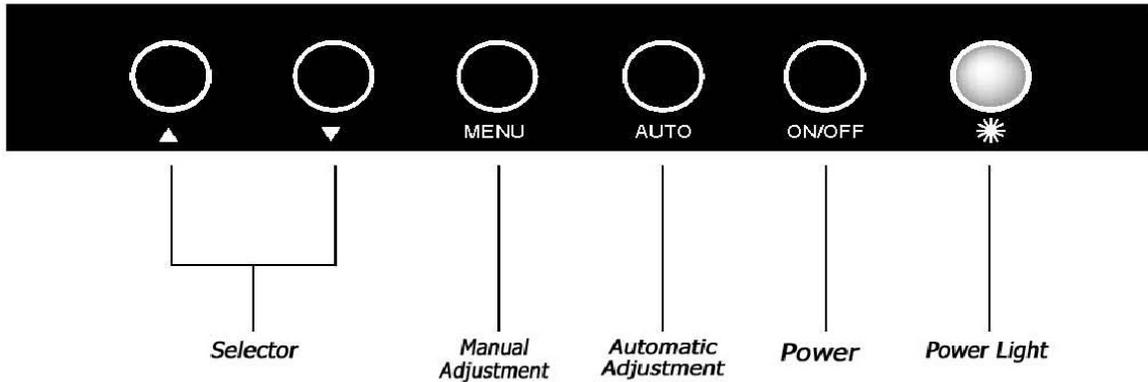


- f. If you want to revert OSD settings back to factory default, invoke the “Hot-Key” sequence: “SCROLL LOCK”, “SCROLL LOCK”, “R” keys. The port-buttons LEDs segment will be flashing during the refresh process.



When the OSD values are back to their default setting, the port-buttons LEDs segment will stop flashing.

Video adjustments



1. Power Light:

- Green: Sylphit-Duo is powered up, and a live video signal is detected
- Red: Sylphit-Duo is powered up, and no live video signal is detected
- Amber: Sylphit-Duo is powered up, and searching for a live video signal
- No Light: Sylphit-Duo is powered down

2. **On/Off:** Power on or power off Sylphit-Duo (affecting the monitor only)

3. **Auto:** Sylphit-Duo automatically sets the video settings based on the incoming video signal

4. **Menu:** Brings up Sylphit-Duo OSD menu for manual video adjustments

5. **↑ ↓** : Selector keys for navigating through Sylphit-Duo OSD menu



Auto Adjustment

1. Press the "MENU" key, then it will show up the picture of OSD
2. Press "MENU" key again, the monitor will according to the visual signal be the best mode automatically.
3. Press the "AUTO" key will save the course then exit the OSD.



Bright & Contrast

1. Press the "MENU" key, then it will show up the picture of OSD.
2. Press the "Down" key to select the "Brightness/Contrast" item.
3. Press the "MENU" key again to enter into the "Brightness/ Contrast" mode.



Adjust the Brightness :

Use the "Down" key may reduce the brightness;
Use the "Up" key may increase the brightness.



Adjust the Contrast :

1. Press the "MENU" key, then select the contrast.
2. Use the "Down" key may reduce the contrast;
Use the "Up" key may increase the contrast.
3. Adjust the property degree then press "Select" twice to save the course and exit.



Image Adjustment

1. Press the "MENU" key, then it will show up the picture of OSD.
2. Press the "Down" key, and choose "Image Adjust".
3. Press "MENU" key again, go into "Image Adjust" for adjustment.



Horizontal Position :

According to the procedure, it would change the horizontal position of the monitor.

Use the "Up" & "Down" keys to adjust the position.



Vertical Position :

According to the procedure, it would change the vertical position of the monitor.

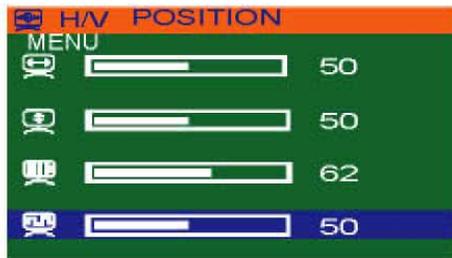
1. Press the "MENU" key, and select the vertical one.
2. Use the "Up" & "Down" keys to adjust the position.



Picture Quality Adjustment :

It may improve the flashing & flicker from the different sources' signal.

1. Press "MENU" key, and select picture quality.
2. Use the "Up" & "Down" keys to adjust the position.



Frequency Adjustment :

It may also improve the flashing & flicker from the different sources' signal.

1. Press "MENU" key, and select picture quality.
2. Use the "Up" & "Down" keys to adjust the position.



Color Adjustment

1. Press the "MENU" key, then it will show up the picture of OSD.
2. Press the "Down" key, and choose "Color".



By these procedure, you may adjust individually the red, green and blue colors.

1. Press the "MENU" key, then go into the "Color Adjust".
2. Press the "Up" & "Down" keys, and adjust the "Red".



3. Press the "MENU" key, then go into the "Green".

4. Press the "Up" & "Down" keys, and adjust the degree of "Green".



5. Press the "MENU" key, then go into the "Blue".

6. Press the "Up" & "Down" keys, and adjust the degree of "Blue".



1. Press the "MENU" key, then choose "6500K EUROPE".

2. Press the "Down" key, and the picture will be closer to the blue tone.



1. Press the "MENU" key, then choose "9300K ASIA".

2. Press the "Down" key, and the picture will be closer to the red tone.



1. Press the "MENU" key, then choose "RECALL".

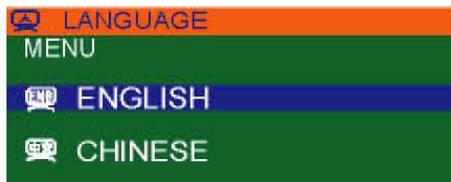
2. Press "Down" key again, and the picture will be reset to the default tone.



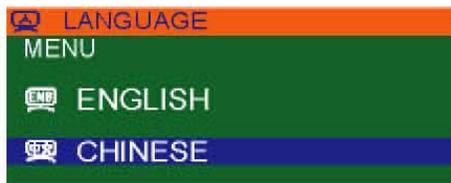
Language Selection

1. Press the "MENU" key, then it will go into OSD mode.
2. Press "Down" key, and select "Language".

* It refer to the screen.



1. Press the "MENU" key, then it will go into the language mode.
2. Press "MENU" again, and the letter will be showned in English.



1. Press the "Down" key, then select "CHINESE" mode.
2. Press "MENU" again, the words on OSD is shown in Chinese.



Reset

Use the default setting :

1. Press the "MENU" key, then it will go into OSD mode.
2. Press "Down", and select "RESET".
3. Press "MENU" again, the picture will reset to default setting.



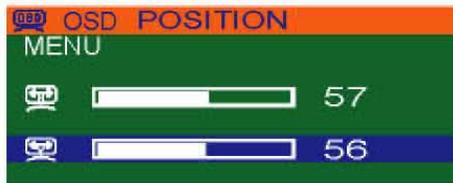
OSD Adjustment

1. Press the "MENU" key, then the picture will go into OSD mode.
2. Press "Down", and select "OSD Adjust".



OSD Position Horizontal Adjustment :

1. Press the "MENU" key, then the picture will go into OSD Position mode.
2. Use the "Up" & "Down" keys to adjust the OSD horizontal position.



OSD Position Vertical Adjustment :

1. Press the "MENU" key, then select the vertical OSD lower case mode.
2. Use the "Up" & "Down" keys to adjust the OSD vertical position.



Exit

After the OSD Position adjustment, the procedure for exit of OSD :

1. Press the "Down" & "Up", and select "Exit".
2. Press "MENU" to exit the OSD screen.

Hot-Plug functionality

Sylphit-Duo DSK supports “Hot Plug” function for easy addition or removal of connected computers:

A computer can be disconnected and reconnected to the same port or to a different port of Sylphit-Duo DSK unit without having to power Sylphit-Duo DSK off.

NOTE: Some computer Operation Systems are unable to support “Hot Plug” functionality. In such cases, the computer may no longer recognize an attached computer, or mouse, or both, or may experience an unpredictable behavior, or shut down. Before attempting to “Hot Plug” a computer to Sylphit-Duo DSK, make sure your OS and supports a “Hot Plug” functionality.

Troubleshooting

1. Make sure that all three (3) connectors on the cable connecting Sylphit-Duo to the computer (or KVM switch) are well seated.
2. To avoid video ghosting and degradation, the maximum recommended VGA cable length is 15-feet. Normally, the supported cable-length is based on driver capacity of your VGA card.
3. The maximum recommended PS/2 cable lengths for keyboard and mouse is 15-feet. Normally, the supported cable-length is based on driver capacity of your motherboard PS2 port.
4. If you need to extend Sylphit-Duo beyond the supported 15-feet away from the connected computer, you may need to use a KVM console extender. Please consult with your Rackit sales engineer.
5. Don't press any keys on the keyboard while the computer is booting up. Otherwise, it might cause a keyboard error, or the keyboard may not be detected by the computer.
6. The computer boots up fine, but the keyboard doesn't work:
 - Make sure that the keyboard connectors on the cable connecting Sylphit-Duo to the computer are both well seated on both ends.
 - Try connecting a stand-alone keyboard to the computer. Restart the computer.
7. The Mouse is not detected during the computer's boot up:
 - Make sure that the mouse connectors on the cable connecting Sylphit-Duo to the computer are both well seated on both ends.
 - Try connecting a stand-alone mouse to the computer. Restart the computer.

Certificates



This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.



This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS A