

USK-Series

KVM Drawer

(with integrated KVM switch)



User Guide

Version 2.0



 Rackit® Technology Corporation

 271 Madison Avenue, New York, NY 10016

 Tel: (212) 679-0050 • Fax: (212) 679-0040

 1 . 8 0 0 . 6 3 6 . 3 4 3 4

www.RackitTechnology.com

Table of Content

Items Included in Shipment	3
System Compatibility	3
Rack-Mount Installation	4
Product Detail	5
Connecting Computers to Sylphit	6
Powering Up the System	7
LCD Display Control Panel	8
Operating Sylphit's KVM Switch	16
Password	16
Switching Indication Panel	16
Keyboard Hot-Key Operation	17
On Screen Display operation (OSD) for KVM Switch	19
Ports Names	20
OSD and Scan View Duration	21
Changing a Password	22
Finding a Computer by Name	22
Disabling Password	23
Locking the Console	24
General Precautions	25
Certificates	25

Items Included in Shipment

- Sylphit-USB KVM Drawer/Switch
- (8) or (16) Sylphit Integrated USB KVM Cables (HDD 15-pin male [for Sylphit connection] to USB/VGA [for computer connection])
- Power cord
- Extension mounting brackets
- (8) Extension brackets' mounting screws

System Compatibility

System	Video	Keyboard	Mouse
Sylphit-USB	Built-in VGA flat-panel	Built-in Windows	Built-in USB
USK-models	LCD display	USB keyboard	mouse
Connected Computers	HD15 (VGA)	USB (one connector for both)	

Rack-Mount Installation

- 1. Measure the depth of the rack (the distance between the front and the rear mounting rails) into which you are installing Sylphit.
- 2. Using the 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 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 by sliding the extension brackets, to match the depth of the rack.
- 4. Once Sylphit's 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.





Back View



USB Port

Local Console ports are used to connect an external monitor (to the HD15 VGA female port) and external keyboard and mouse (to the two USB ports). The external monitor will display video identical to the one displayed on Sylphit's screen. The external keyboard and mouse will control the selected server just as Sylphit's built-in keyboard and mouse would.

Daisy Chain In port is used to daisy-chain another bank of KVM switch, to serve as means of expanding Sylphit's port capacity, allowing Sylphit to control more than its original eight (or sixteen) ports.



Sylphit-USB USK-Models User Guide

Rackit Technology Corporation – www.rackittechnology.com – (800)636-3434

Connecting Computers to Sylphit

Sylphit ships with Sylphit Integrated USB KVM Cables (the cable count matches the port count of the Sylphit unit).

Each Sylphit Integrated USB KVM Cable consists of one (1) blue HDD 15-pin male connector [for Sylphit connection] on one end and one (1) blue HDD 15-pin male VGA connector with a USB pigtail [for computer connection] on the other end.

- 1. Confirm that the Sylphit unit is powered down.
- 2. Confirm that the server you are connecting is powered down.
- 3. Connect the USB connector of the Sylphit Integrated USB KVM Cable to the keyboard/mouse USB port on the server.
- 4. Connect the blue VGA connector that is attached to the USB pigtail to the server's VGA video port. Secure the connection with the thumb-screws.
- 5. Connect the single blue HDD 15-pin connector (on the other end of the cable) to anyone of the 1-8 (or 1-16) ports on the back of the Sylphit unit. Secure the connection with the thumb-screws.



6. Repeat steps 2 through 5 for each server to be connected to Sylphit.

Powering Up the System

- 1. Turn on the power to the Sylphit unit. The On/Off Power switch is located on the back of the unit, by the EIC power outlet.
- A beep will sound. The "Power Light" on the LCD Display Control Panel will light up in solid green, indicating the monitor is turned on.
 NOTE: If the "Power Light" on the LCD Display Control Panel lights up in amber, it is an indication that the monitor is turned off. Press the "Power" (On/Off) button on the LCD Display Control Panel. The "Power Light" will light up in solid green.
- 3. The "Operation" blue light of port 1 on the Switching Indication Panel will flash.
- Power up the servers. You may power all connected servers regardless of which may be selected by Sylphit.
 NOTE: A solid green "Power" LED on the Switching Indication Panel indicates that the server connected to the corresponding port is powered up.
 A solid blue "Operation" LED on the Switching Indication Panel indicates that the server connected to the corresponding port is selected and now controlled through the Sylphit console.

LCD Display Control Panel



Power Light – Lights up when the monitor is turned on:

- Green Video signal is available
- Amber Video signal is not available
- Red Monitor is powering down.

On/Off Power Button – Turns the monitor on or off.

Auto Button – Press to have the monitor automatically adjust to the incoming video signal.

Menu Button – Press to bring up the LCD On Screen Display (OSD) menu.

Arrows Selector Buttons – Used to navigate up or down on the LCD's OSD.

10 ME	24x768 48KHZ/59HZ NU
GUITO	AUTO Adjust
Œ	Brightness/Contrast
	Image Adjust
фD	Color
$\langle \mathbf{A} \rangle$	Language
9	Reset
QUD	OSD Adjust
121	Exit

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.

1 C ME	24x768 48KHZ/59HZ NU
(FUTD)	AUTO Adjust
Œ	Brightness/Contrast
	Image Adjust
¢D	Color
Q	Language
9	Reset
ண	OSD Adjust
GI	Exit

Bright & Contrast

1.Press the "MANU" 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.

Brightness/	Contrast
MENU	
	_ 40
•	83

Adjust the Brightness :

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

Brightness/	Contrast
MENU	
Ø ––	4 0
•	3 83

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.

J

Oyiphit-OOD CON-MOUCIS CSCI Culue

10 ME	24x768 48KHZ/59HZ NU
GUITO	AUTO Adjust
<u>کچ</u>	Brightness/Contrast
	Image Adjust
ф£Э	Color
(\underline{A})	Language
-	Reset
ത്ത്	OSD Adjust
111	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.

	POSITION	
Q		50
9	_	50
9		62
9 E		50

Horizontal Position :

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

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

H/V	POSITION	
		50
9		50
		62
9		50

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.

	HA	POSITION	
	NU		50
œ		-	50
			62
2		1	50

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.

H/V	POSITION	
	_	50
9 🗆		50
		62
9 C		50

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.

10 ME	24x768 48KHZ/59HZ NU
GUITO	AUTO Adjust
0÷	Brightness/Contrast
	Image Adjust
Ð	Color
\mathbf{A}	Language
9	Reset
ത്ത	OSD Adjust
	Exit

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".

Sylphil-OSB USA-IVIOUEIS USEL GUIDE

🕫 CO	LOR ADJ	UST
		68
	6500K	EUROPE
	9300K	ASIA
- *	RECALL	

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.

10 ME	24x768 48KHZ/59HZ NU
GUITO	AUTO Adjust
O€	Brightness/Contrast
	Image Adjust
Ð	Color
(A)	Language
5	Reset
œ	OSD Adjust
	Evit

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.

Q	LANGUAGE
ME	NU
Q	ENGLISH
æ	CHINESE

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.

ANGL	AGE	
MENU		
👰 ENGI	ISH	
興 CHIN	ESE	

1.Press the "Down" key, then select "CHINESE" mode.

2.Press "MENU" again, the words on OSD is shown in Chinese.

1C ME	24x768 48KHZ/59HZ NU
gung	AUTO Adjust
Œ.	Brightness/Contrast
	Image Adjust
93	Color
9	Language
5	Reset
ത്ത്ര	OSD Adjust
G I	Exit

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.

Oyiphileood Coreinioueia Cael Oulue

10 ME	24x768 48KHZ/59HZ NU
GUITQ	AUTO Adjust
Œ	Brightness/Contrast
	Image Adjust
Ð	Color
\square	Language
9	Reset
œ	OSD Adjust
GI	Exit

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.

000	OSD	POSITION	
ME	NU		
Ð	1		57
Ð			56

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.

10 ME	24x768 48KHZ/59HZ
ŒΤΩ	AUTO Adjust
€.	Brightness/Contrast
<u></u>	Image Adjust
ĢD)	Color
(A)	Language
9	Reset
œ	OSD Adjust
G1	Exit

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.

Oyiphileood Cort-Modela Cael Oulde

Operating Sylphit's KVM Switch

Password

Depending on its settings, Sylphit may prompt you to enter a password in order to gain access to the console.

The factory-set default password is eight zeros (0000000).

In the "ENTER PASSWORD" prompt, type in the eight-zeros password using the "0" key located on the top row of the keyboard.

Note: <u>Do not</u> use the zero key on the numeric keypad.

Warning: If you are not familiar with the OSD menu operation, you should refrain from changing the password – i.e. keep the eight zero (00000000) default value. Once the password has been changed, should the new password get unfortunately forgotten, Sylphit unit will need to be shipped back to Rackit's labs for a password reset.

Switching Indication Panel

Each port on Sylphit's KVM switch is represented on the Switching Indication Panel with:

- A button
- Blue "Operation" LED
- Green "Power" LED

Push-Buttons are used to select a server that is connected to the corresponding port.

A solid green "Power" LED indicates that the server connected to the associated port is powered up.

A flashing blue "Operation" LED indicates that the associated port is selected but that the server connected to the associated port is powered down or disconnected from Sylphit.

A solid blue "Operation" LED indicates that the server connected to the corresponding port is selected, powered up and now controlled through the Sylphit console.

Press on any button to switch to the server connected to the associated port. Upon switching, the port's name will appear on the screen for a few seconds.



The "Bank" indicator at the top right corner of the *Switching Indication Panel* indicates the active KVM switch's bank number, in case there are additional KVM switches cascaded off the main Sylphit unit. The "Bank" indicator will always show "1" when there are no additional KVM switches cascaded off the integrated Sylphit KVM switch.

Keyboard Hot-Key Operation

You can control Sylphit's KVM switch by invoking commands via a sequence of keyboard hot-keys.

Tap the "Scroll Lock" key twice in succession (within 2 seconds) to enter into "Hot Key" mode. A beep will sound indicating you are in "Hot Key" mode.

Tap a "Command" key (see below a list of command keys and their corresponding action) within 2 seconds of entering into "Hot Key" mode. If you haven't tapped any "Command" key in "Hot Key" mode within 2 seconds, Sylphit will exit "Hot Key" mode and revert to normal state in which the keyboard is controlling the selected server.

Following are some hot-key sequences:





To select a port:



Example: To select port #6 in bank #1 type: 1 0 6

Note: Use the number keys on the top row of the keyboard – <u>Do not</u> use the numeric keypad keys.

To bring up the OSD menu:



On Screen Display (OSD) for KVM Switch

On Screen Display (OSD) is used for selecting and activating some of Sylphit's KVM switch's options and features.

To bring up the OSD menu:



Tap the "Scroll Lock" key twice in succession (within 2 seconds) to enter into "Hot Key" mode. A beep will sound indicating you are in "Hot Key" mode.

Tap the "Space Bar". Sylphit's On Screen Display (OSD) menu will show on the screen.



Use the "Up" and "Down" arrow keys to highlight the option you wish to modify.

Hit the "Esc" key to exit.

Ports Names

On *Sylphit's main OSD control menu,* scroll down to the "**02 PORTNAME**" line and hit the "Enter" key.

This option allows assigning custom names to each port, which can assist the user in easily identifying the servers connected to Sylphit's KVM switch.

PORTNAME		?×
BANK: 1 01 SYSTEM 02 SYSTEM 03 SYSTEM 04 SYSTEM 05 SYSTEM 06 SYSTEM 07 SYSTEM 08 >SYSTEM	01 02 03 04 05 06 07 08	7

Use the "Up" and "Down" arrow keys to highlight the port you want to name.

Hit the "INS" key to go into edit mode.

POF	TNAME				?×
BAI	VIC 3 1				
91	OMOTION.	_			
	STSTEM	02			
64	SYSTEM	03			
64	SYSTEM	04			
69	SYSTEM	05			
66	SYSTEM	06			
92	SYSTEM	97			
OS.	ASYSTEM	OB			

Type in the desired name of the port and hit the "Enter" key to save it. The port has now been assigned its new name.

Hit the "Esc" key to exit – this will return to Sylphit's main OSD control menu screen.

Set the Duration of OSD and Scan View

On *Sylphit's main OSD control menu,* scroll down to the "**03 TIMEVIEW**" line and hit the "Enter" key.

This option allows setting up the duration of time for the OSD messages to be displayed on the screen, as well as setting up the time interval for each port to be viewed on the screen in "Scan" mode.



Use the "Up" and "Down" arrow keys to highlight (purple rectangle) the duration of the desired setting (either "OSD TIME" or "SCAN TIME").

Hit the "INS" key to go into edit mode.

Type in the desired duration time in seconds using the number keys on the keyboard's top row (do not use the numeric keypad) and hit the "Enter" key to save it.

Hit the "Esc" key to exit - this will return to Sylphit's main OSD control menu screen.

Changing a Password

On *Sylphit's main OSD control menu* scroll down to the "**04 SECURITY**" line and hit the "Enter" key.

This option allows setting up a new password.



Under "ENTER PASSWORD", type in the current password and hit the "Enter" key. The cursor will move to the next line.

Under "ENTER NEW PASSWORD", type in the new password and hit the "Enter" key. The cursor will move to the next line.

Under "RETYPE NEW PASSWORD", re-type the new password and hit the "Enter" key. The new password is confirmed and saved.

Finding a Computer by Name

On *Sylphit's main OSD control menu,* scroll down to the "**05 FINDPORT**" line and hit the "Enter" key.



Sylphit-USB USK-Models User Guide

This option allows searching for a computer (port) by its name and switching to it.

Type in the computer's and hit the "Enter" key.

The "FINDPORT" screen will display the found computer name, indicating the port # and the bank # that the found computer is connected to.

FIN	PORT		?×
03	SYSTEM	03	

Hit the "Enter" key to switch to the found computer (port), or Hit the "Esc" key to exit – this will return to *Sylphit's main OSD control menu* screen.

Press ESC to return to main control menu

Disabling the Use of a Password

On *Sylphit's main OSD control menu* scroll down to the "**06 PASSWORD**" line and hit the "Enter" key.

This options determines whether or not a password will be required to gain access to Sylphit's console.



Sylphit-USB USK-Models User Guide

Use the "Up" and "Down" arrow keys to highlight the desired option and hit the "Enter" key.

"ENABLE" means a password will be implemented to allow access to the console.

"DISABLE" means no password will be implemented to allow access to the console.

Locking the Console (for security)

Locking the console is an extra step a user may want to take as the user is done using the console (while leaving the systems up and running), that will prompt the next user to enter a password in order to gain access to the console.

On *Sylphit's main OSD control menu* scroll down to the "**07 CONSOLE**" line and hit the "Enter" key.

Use the "Up" and "Down" arrow keys to highlight the desired option and hit the "Enter" key.

"ENABLE" means the console is not locked and any user can access the console without being prompted to enter a password.

"DISABLE" means the console is <u>locked</u> and the next user will be prompted to enter a password to access the console.



General Precautions

- 1. Ensure that all cables are well seated, both on Sylphit's end and on the computer's end.
- The maximum recommended length of KVM cable connecting Sylphit to a computer is 15 feet. This will ensure good performance without any ghosting or video degradation. If the distance between Sylphit and a connected computer needs to be greater than 15 feet, a console extender should be used.
- 3. The recommended PS2 cable distance is 5 meters maximum. Normally, the cable length is based on driver capacity of your motherboard PS2 port. If you need longer PS2 cable, please use PS2 extender (Model No. PS2-100, MAX. 100 feet) to accomplish your applications.
- 4. Don't press any keys on the keyboard while the selected computer is booting up, since it might cause a keyboard error, or may prevent the keyboard from being detected by the computer.

Certificates



FCC

This equipment has been tested and found to comply with Part 15 of the FCC Rules.

Œ

CE – Certificate

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