User Manual

KDS 6190, 1U 19" rack mount monitor keyboard drawer

ACNODES

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1.1   **Important Safeguards**

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.

- Damage, deterioration or malfunction resulting from:

- Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modifi- cation, or failure to follow instructions supplied with the product.

- Repair or attempted repair by anyone not authorized by us.

- Any damage of the product due to shipment.

- Removal or installation of the product.

- Causes external to the product, such as electric power fluctuation or failure.

- Use of supplies or parts not meeting our specifications.

- Normal wear and tear.

- Any other causes which does not relate to a product defect.

- Removal, installation, and set-up service charges.
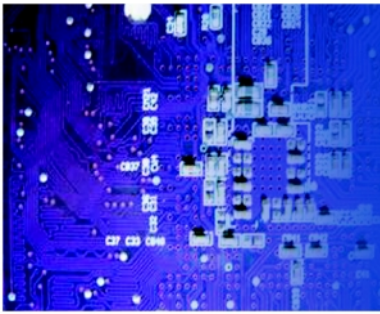
1.2 **Regulatory Notice**

Legal Information

First English printing, October 2010

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents.
The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

1   Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.

2   Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned

    environment with temperatures not exceeding 40º Celsius (104º Fahrenheit).

3   When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury
    to persons nearby.

4   When the drawer is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection
    is necessary to keep it from overheating.

5   Arrange the equipment's power cord in such a way that others won't trip or fall over it.

6   If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's
    electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.

7   Observe all precautions and warnings attached to the equipment.

8   If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.

9   Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware
    may cause damage, fire or electrical shock.

10 Only qualified service personnel should open the chassis. Opening it yourself could damage the equip- ment and invalidate its warranty.

11 If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are
designed to provide reasonable protection against harmful

interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this

equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may
cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or
television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or
more of the following measures:

KDS 6190
1U rack mount LCD keyboard drawer

1.3 Specifications

Display size:
19 inches

Panel type:
Active Matrix TFT LCD

Resolution capabilities:
Maximum Resolution up to 1280 x 1024 (SXGA)

Brightness:
White 300 cd/m2

Contrast ratio:
1000:1

Supported colors:
16.2M Colors (6-bit with FRC)

Viewing angle:
Right-Left view 60° ~ 70°(Typ)
Up-Down View 45° ~ 60°(Typ)

Display Area:
338 mm x 270 mm

Response Time:
Rising Time 1.3ms

LCD MTBF:
50,000 hours

VGA Signal Input:
Analog H/V, Co1.3Diagrammposite, SOG

Resolution:
64x400 / 720x400: 70Hz
640x480 / 800x600 / 1280x1024: 60/70/72/75Hz
1024x768 / 1152x864 / 1280x720: 60/70/75Hz

Plus & Play DCC:
EDID 1.3

Power Input:
Auto-sensing 100 to 240VAC, 50/60Hz power

LCD power consumption:
Max. 48Watts, standby 5 Watts

Keyboard & Mouse:
SUN-compatible keyboard integrated with 3-button
touch-pad/trackball

KVM Cable:
4-in-1 proprietary KVM cable (combo free, USB or PS/2)

Package Dimension:
442 x 650 x 44 mm / 17.4 x 25.6 x 1.73 inches

Gross Weight:
35lbs

Certification:
CE / FCC

Operation temperature:
0 ~ 50°C / 32 ~ 122°F

Storage temperature:
-20 ~ 60°C / -4 ~ 140°F

Humidity:
5~90%, non-condensing

Shock:
10G acceleration (11ms duration)

Vibration:
5~500Hz 1G RMS random vibration

Keyboard Mouse:
106 key PS/2 keyboard with touch pad, Optional video
input, DVI-D, BNC & S-Video

Touch screen:
Resistive / Capacitive touch screen, USB or RS-232

DC power input:
12 / 24 / 48VDC power input

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KDS 6190
1U rack mount LCD keyboard drawer

1.4 **Diagram**
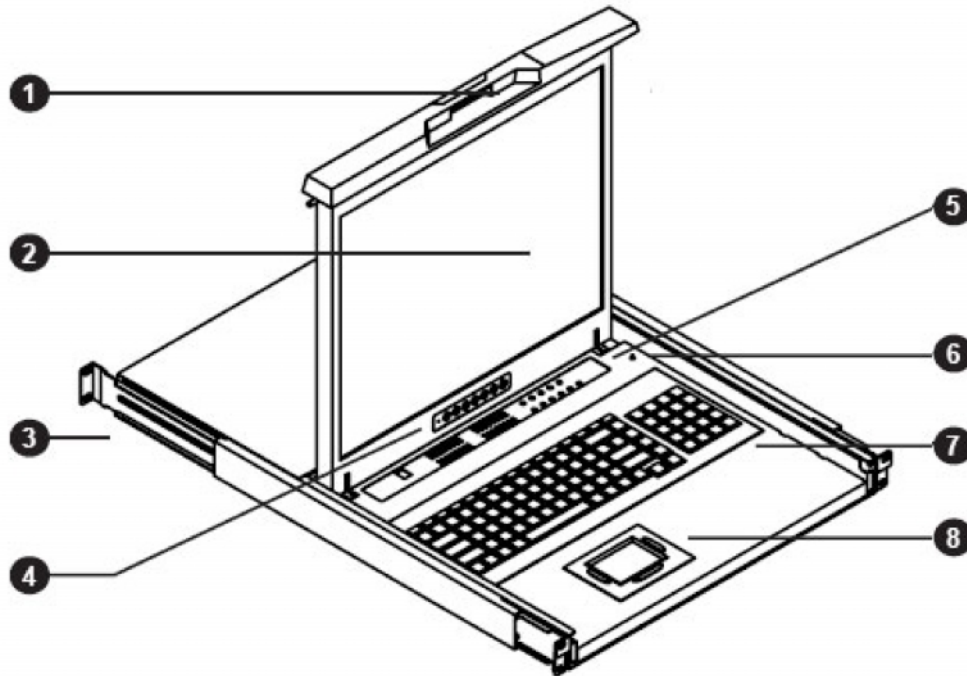
1. Carry handle to release the 2-pt lock
2. LCD interchangeable module kit
3. "One Man" Installation Slides
4. LCD membrane

5. Membrane switch (KVM option)
6. Micro switch for screen auto power off
7. Keyboard interchangeable module kit
8. Mouse interchangeable module kit

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1.5   How to Install "One Man" Installation Slides into rack

❶
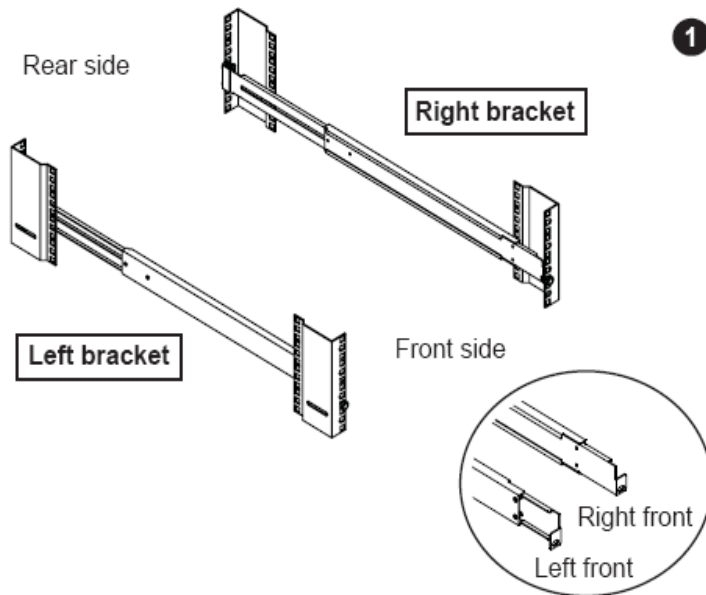
Attach the left and right mounting bracket to rack 19"
mounting rails.

Adjust the rear mounting bracket to fit your rack.

 M6 screw and cup washer x 6 piece included.

Caution : Leaving the screws slightly loose, until

you complete the installation in step 4

❷
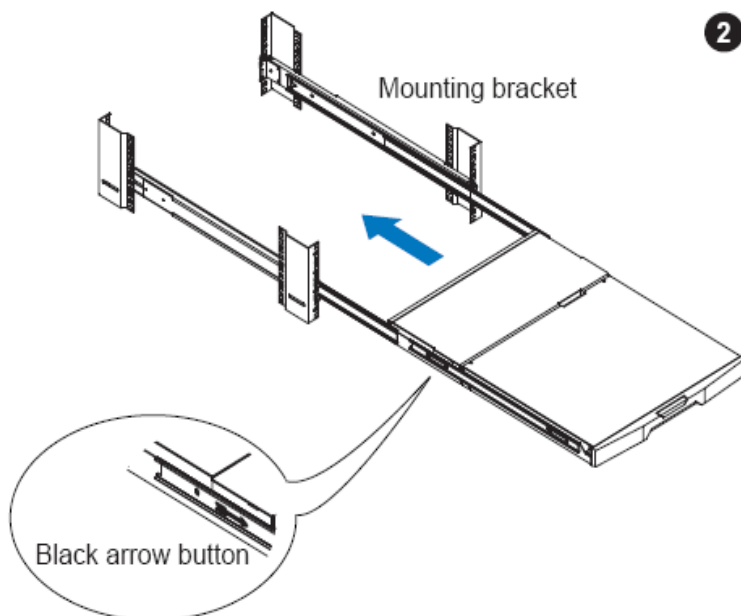
Pick up the LCD keyboard drawer.

Insert the LCD keyboard drawer into the mounting bracket.

Pull and hold the left & right black arrow buttons on the rails.

Return the LCD keyboard drawer to park position
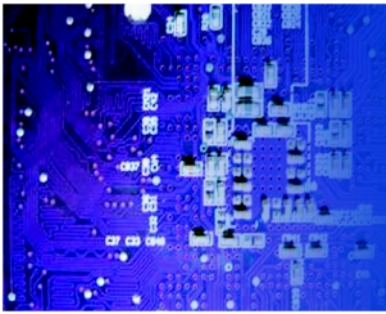
1.6 How to Install "One Man" Installation Slides
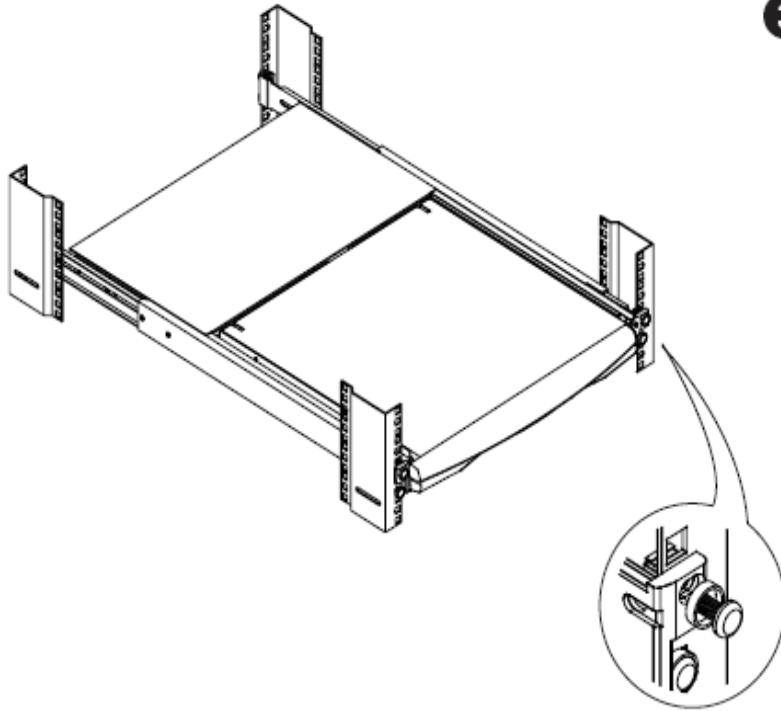
3

Attach front left and right mounting ears of the LCD keyboard drawer to vertical mounting rails.

? M6 screw and cup washer x 2 pcs included.

4
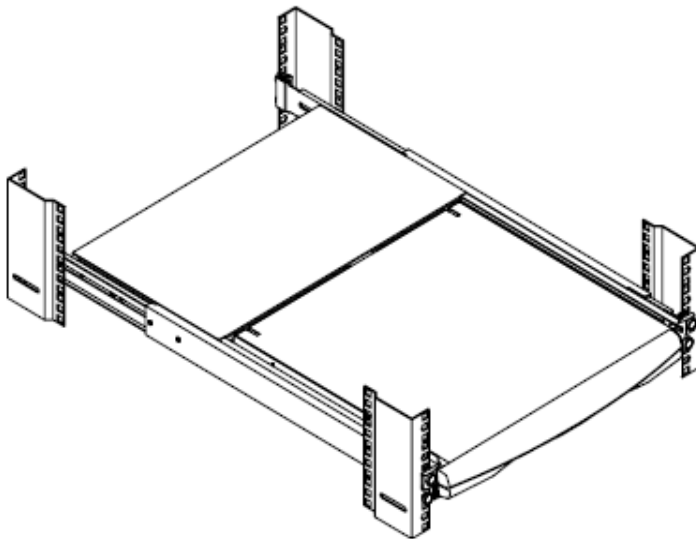
lete the installation

iten all 8 piece of M6 screw to complete the installation

1.7 How to Use the Slides
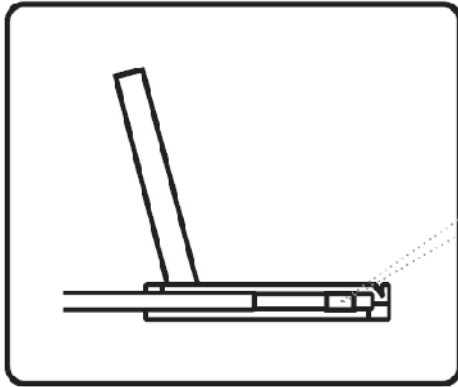
Figure 1.

? A black arrow release button is located on the outside of each slide. (shown in Figure 1).
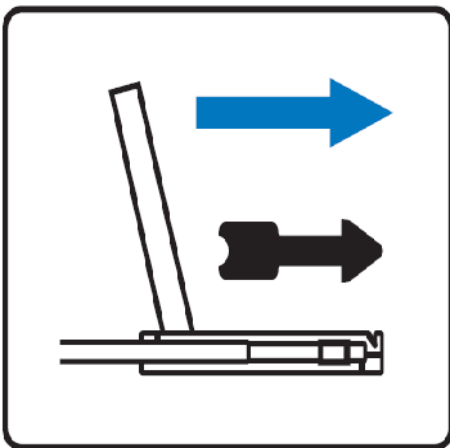
Figure 2.

Pull and hold the black arrow button on either side of the LCD keyboard drawer to unlock. (shown in Figure 2).
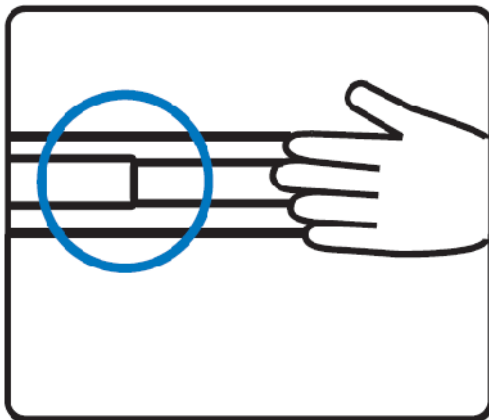
Figure 3.

? Push the LCD keyboard drawer into the rack. (shown in Figure 3).

Caution : Keep your fingers away from the slide stop

1.8   Connect server via USB inteface

CB-6 KVM Cable

Server

USB   VGA

Example of connecting 2-in-1 USB KVM cable to server via USB interface

1.9   Keyboard and Mouse

STANDARD:
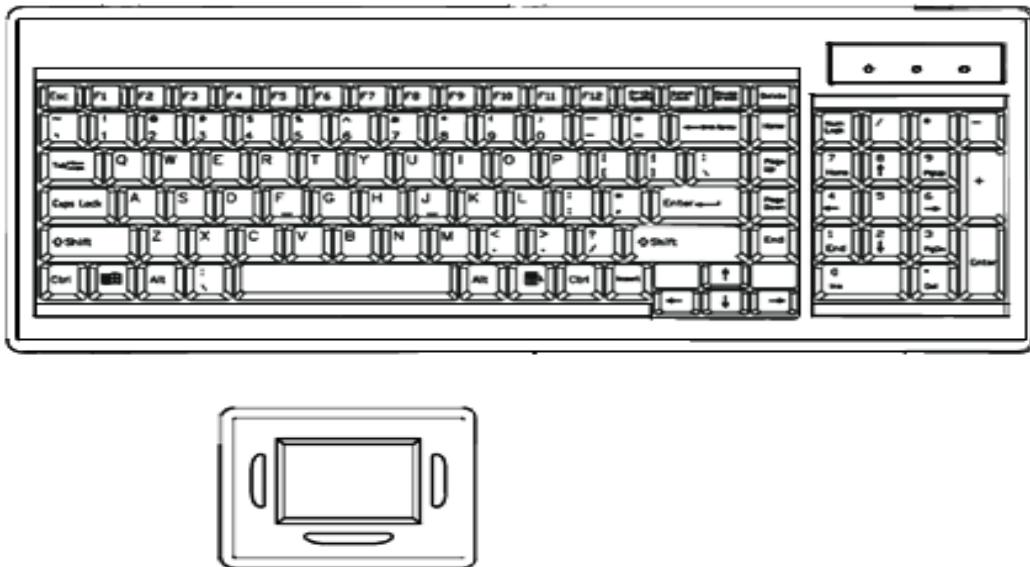
Integrated Keyboard with touchpad

-Incorporates SUN keys including Stop, Cut, Paste, Compose, Copy, and Help.

-104 Key notepad keyboard with full nermical pad and SUN function

-Usb Interface

-Optional N Keyboard integrated with trackball

1.10 How to use "NS" Keyboards
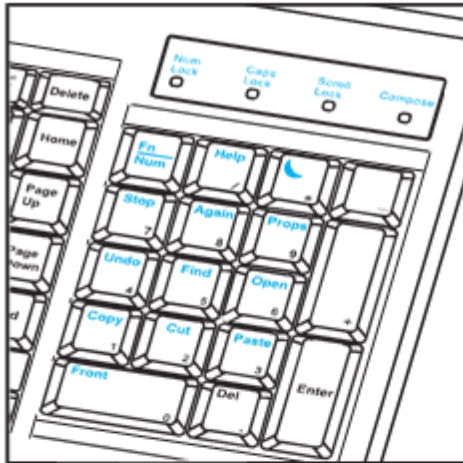
■ Press the Fn/Num button to switch the color the Num LED.
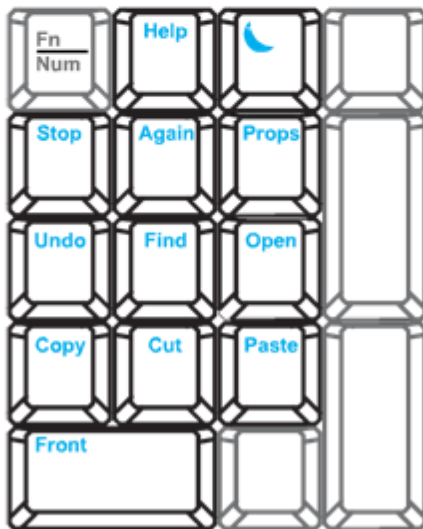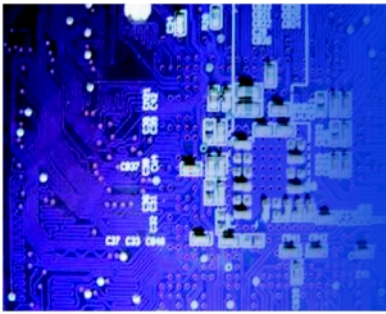
Num LED in Off mode
Key pad behaves as a SUN Solaris system administration command mode
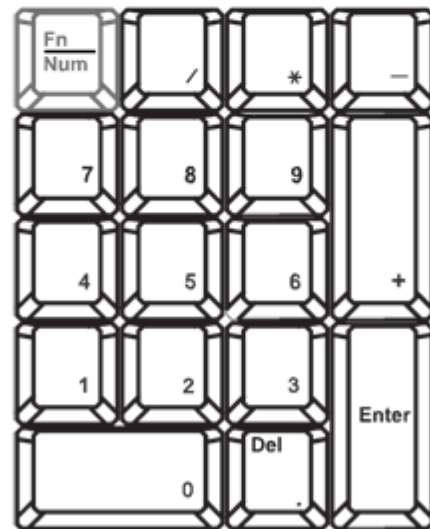
Num LED in Green color
Key pad behaves as a normal key pad mode
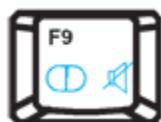
1.11   Optional Accessories

1. Combo 4-in-1 KVM cable
> 1.1 6 feet
> 1.2 10 feet
> 1.3 15 feet

3. Power Cord
> 3.1 IEC Power Cord
> 3.2 5-15 Power Cord US
> 3.3 1363 Power Cord (UK)
> 3.4 CEE 7/4 Power Cord (German)
> 3.5 AS 3112 Power Cord (Australia)

2.1   **On Screen Display Option**

17" & 19" LCD membrane
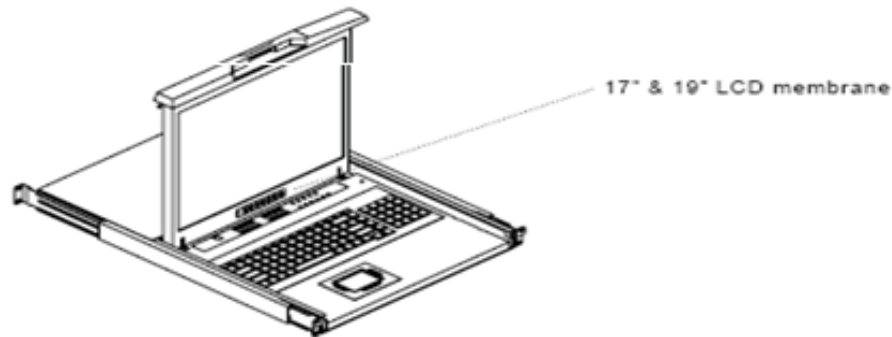
Membrane Switch	Function
○ ● ●	Power light Green = On Orange = Power saving
⊖	Power on / off LCD
M ▤	Display the OSD menu
◈ ◈ ◇ ◇	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ◈ for 5 seconds)
⌒	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

## 2.2 On Screen Menu
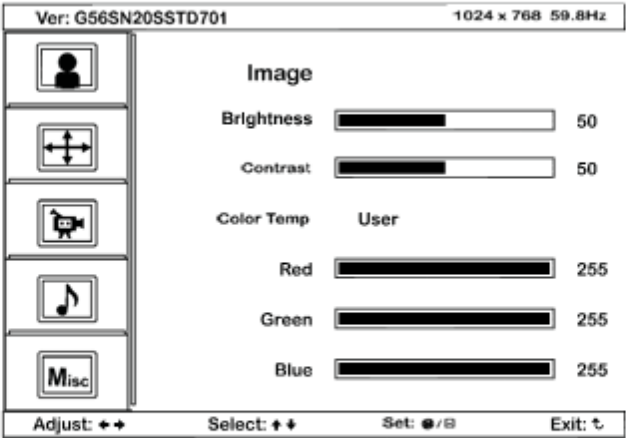
OSD Configuration Page

Image:
To enter into the brightness, contrast, color temp, red, green, and blue

Geometry:
To enter into the auto adjust, H position, V position, phase and clock

Video:
To enter into the colour, tint, sharpness, noise reduction, DCDi and TV Setup

Audio:
To enter into volume, bass, treble, balance, AVL and mute

Misc:
To enter into the language, OSD position, graphic mode, ratio, reset and timer

3.1 Audio Option

Speaker
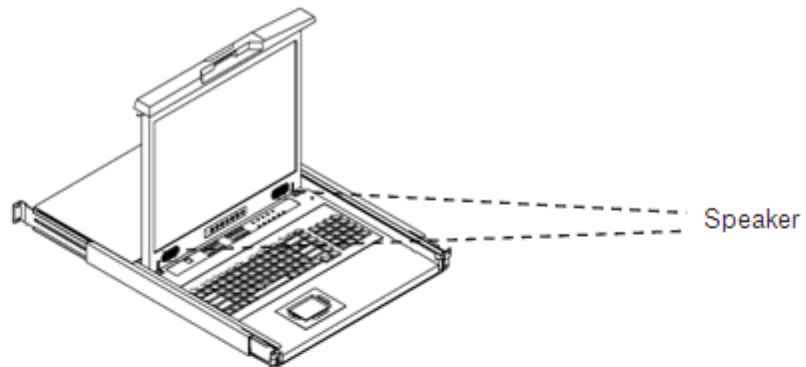
	Power	Audio	4-in-1 KVM console port
Internal power version			
External power version			

Remarks

■ Audio input is 35mm audio plug

■ The speaker is sharing the same power with LCD.

3.2 DVI-D Option
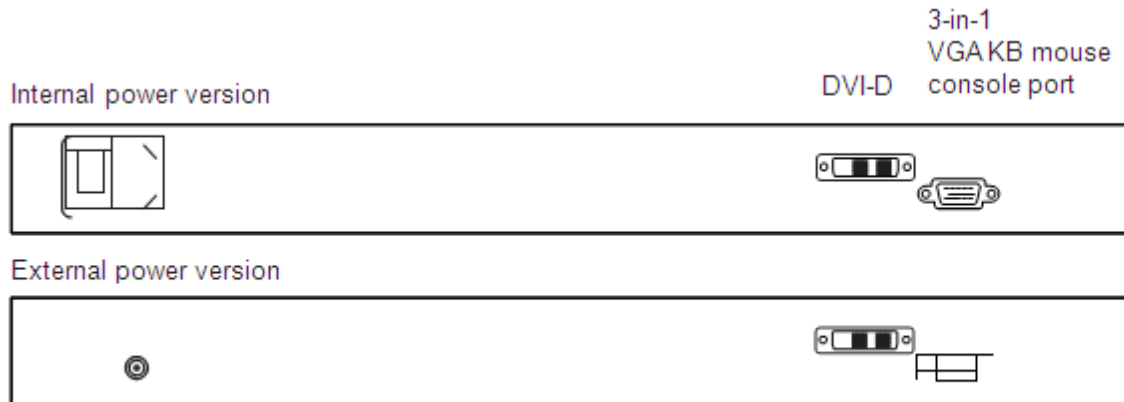
3.3 BNC + S-Video Option

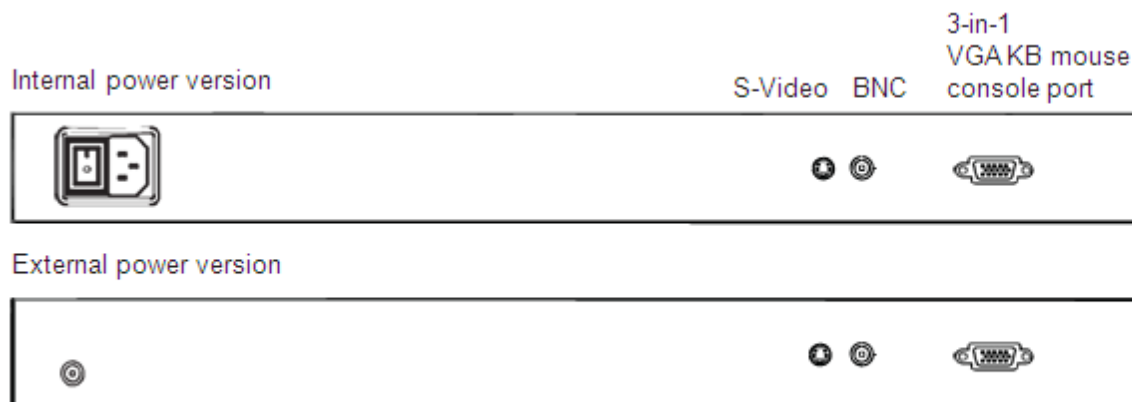## KDS 6190
1U rack mount LCD keyboard drawer

3.5 DC Power Options

Model	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

3.6

e-Resistive

Model	-15TRB / -15TRS	-17TRB / -17TRS	-19TRB / -19TRS
Screen size	15"	17"	19"
Interface	USB / serial		
Optical transmittance	80% ± 3%		
Surface hardness	≥3H (JIS K5400)		
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux		

e-Captive

Model	-15TCB / -15TCS	-17TCB / -17TCS	-19TCB / -19TCS
Screen size	15"	17"	19"
Interface	USB / serial		
Optical transmittance	93% ± 2%		
Surface hardness	>9H Surface hardness, withstand over 300 million touches		
Operating system	Windows 98 / 2000 / ME / XP / NT / CE, DOS, Linux		