

User Manual

1U Dual Sliding LCD Keyboard Drawers 17" and 19" Screen Sizes



ERD Series

- 1U Dual Drawer
- 17" or 19" Screen
- Optional KVM



ERDS Series

- Designed to work with Sun
- 1U Dual Drawer
- 17" or 19" Screen
- Optional KVM

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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 modification, 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.

Legal Information

First English printing, October 2002

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

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- 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.
- 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.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- 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.
- Observe all precautions and warnings attached to the equipment.
- 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.
- 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.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

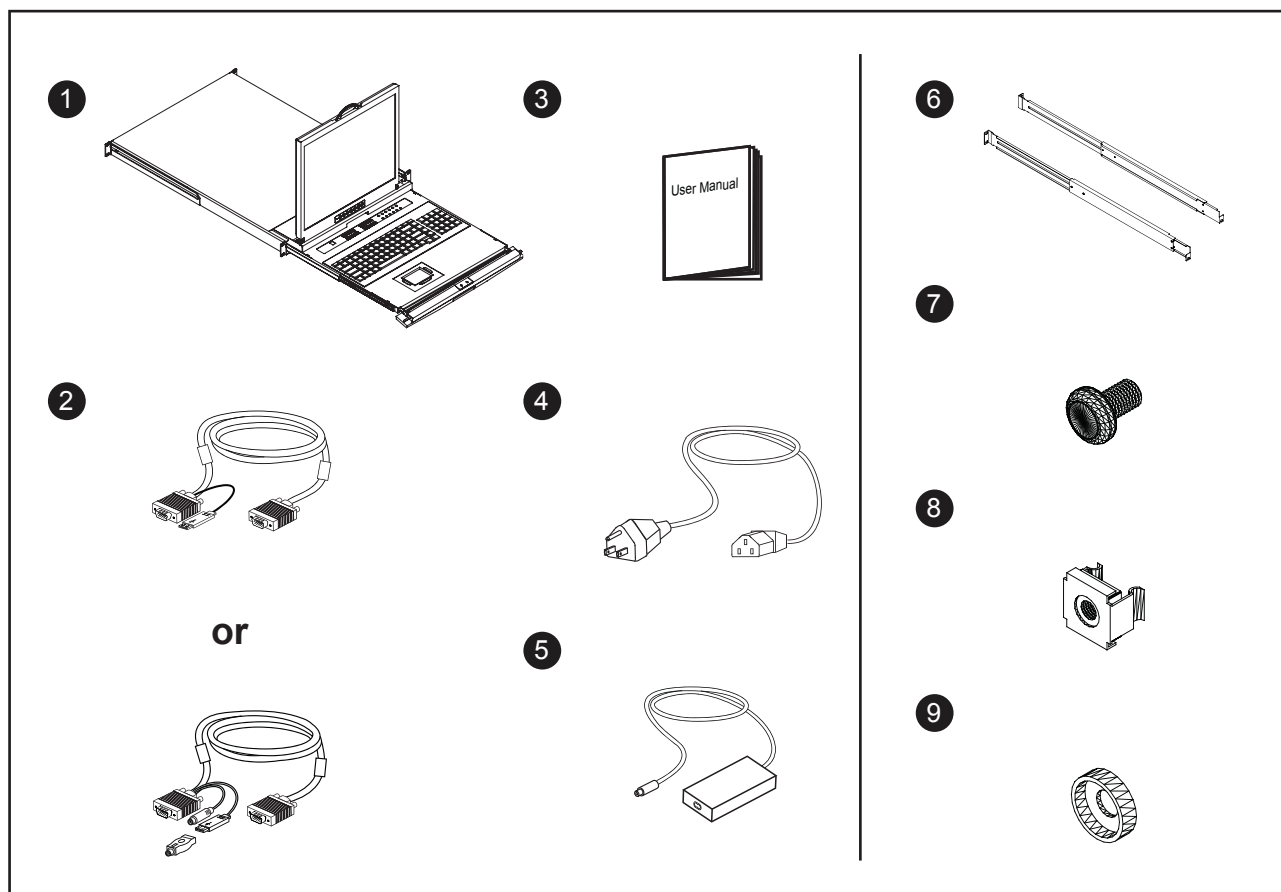
Regulatory Notices Federal Communications Commission (FCC)

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:

- Reposition or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



- ① LCD keyboard drawer x 1 pc
- ② **CB-6** USB 2-in-1 KVM cable x 1 pc (for DS series) **or**
CE-6 Combo 4-in-1 KVM cable x 1 pc (for D series)
- ③ User manual (As of Sept 2011, all user manuals will be download-only. Physical copies are available upon request)
- ④ Power cord x 1 pc
- ⑤ Auto switch power adapter (for external power version) x 1 pc
- ⑥ Mounting bracket x 2 pcs
- ⑦ M6*15mm screw x 8 pcs
- ⑧ M6 cage nut x 6 pcs
- ⑨ Cup washer x 8 pcs

- It is very important to locate the LCD Keyboard Drawer in a suitable environment.
- The surface for placing and fixing the LCD Keyboard Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Position LCD Keyboard Drawer with respect to related facilities.

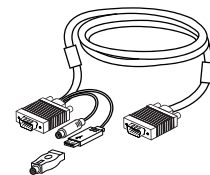
1.5 Unpacking

The LCD keyboard drawer comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

1.6 Optional Accessories

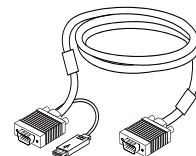
1. Combo 4-in-1 KVM cable

- 1.1 CAE-6 (CE-6) 6 feet
- 1.2 CAE-10 (CE-10) 10 feet
- 1.3 CAE-15 (CE-15) 15 feet



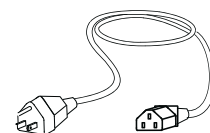
2. USB 2-in-1 KVM cable

- 2.1 CAU-6 (CB-6) 6 feet
- 2.2 CAU-10 (CB-10) 10 feet
- 2.3 CAU-15 (CB-15) 15 feet



3. Power Cord

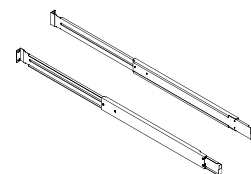
- 3.1 IEC power cord
- 3.2 NEMA 5-15 power cord (US)
- 3.3 BS 1363 power cord (UK)
- 3.4 CEE 7/4 power cord (German)
- 3.5 AS 3112 power cord (Australia)



4. "One Man" installation slides

- 4.1 NBK-01 Single or "One Man" installation slides

* Please refer to P.6 - 7 for Installation guidelines



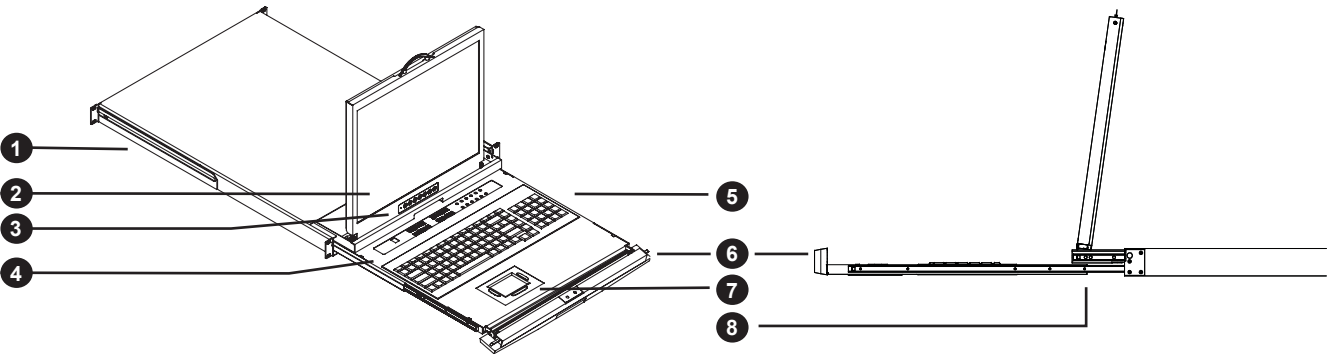
Please Note:

- CAU/CB cables pertain to ÖÜDS series only

Item	Model No.	Description
Matrix Cat 6 KVM	F1 6-Port Cat 6 KVM	Matrix Cat 6 16-Port KVM
	F1 6-Port Cat 6 KVM	Matrix IP Cat 6 16-Port KVM
	H3 6-Port Cat 6 KVM	Matrix Cat 6 32-Port KVM
	H3 6-Port Cat 6 KVM	Matrix IP Cat 6 32-Port KVM
Matrix DB-15 KVM	I 8-Port DB-15 KVM	Matrix DB-15 8-Port KVM
	I 8-Port DB-15 KVM	Matrix IP DB-15 8-Port KVM
	F1 16-Port DB-15 KVM	Matrix DB-15 16-Port KVM
	F1 16-Port DB-15 KVM	Matrix IP DB-15 16-Port KVM
Combo Cat 6 KVM	8-Cat6 / 8-Cat6-2X / 8-Cat6-IP	Combo Cat 6 8-Port KVM
	16-Cat6 / 16-Cat6-2X / 16-Cat6-IP	Combo Cat 6 16-Port KVM
	32-Cat6 / 32-Cat6-2X / 32-Cat6-IP	Combo Cat 6 32-Port KVM
Combo DB-15 KVM	8-USB / 8-2X / 8-IP	Combo DB-15 8-Port KVM
	16-USB / 16-2X / 16-IP	Combo DB-15 16-Port KVM
PS/2 DB-15 KVM	4 / 8 / 16	4 / 8 / 16 port PS/2 DB-15 KVM

Please Note:
■ The product is not compatible with the following operating systems:

1.8 Structure Diagram



- ① Adjustable rear mounting L-bracket

② LCD interchangeable module kit

③ LCD membrane

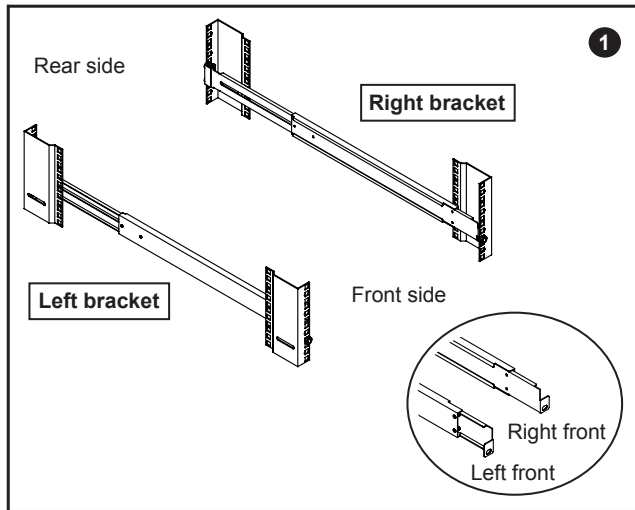
④ Membrane switch (KVM option)
- ⑤ Keyboard interchangeable module kit

⑥ Carry handle to release the 2-pt lock

⑦ Touchpad mouse module

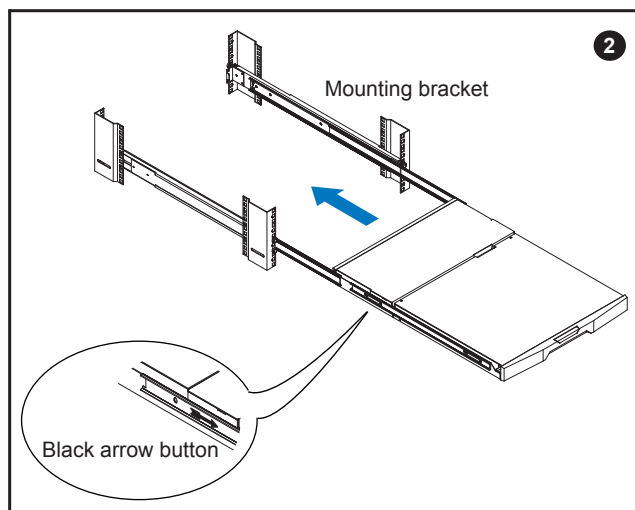
⑧ 1U dual slide for LCD keyboard drawer

Install into rack

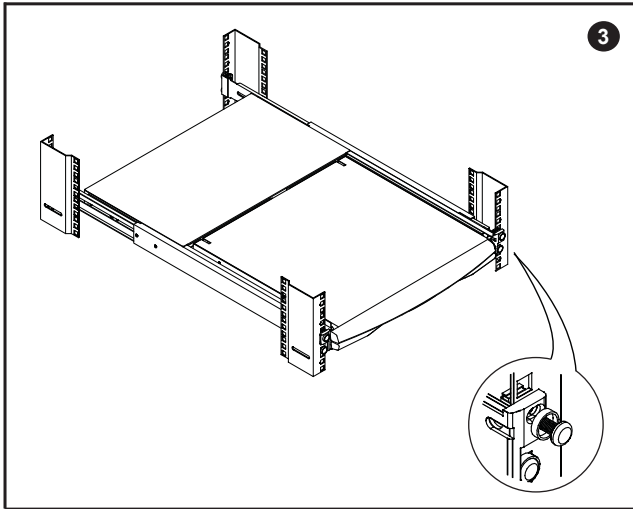


- Attach the left and right mounting bracket to rack 19" mounting rails.
- Adjust the rear mounting bracket to fit your rack.
- M6 screw and cup washer x 6 pcs included.

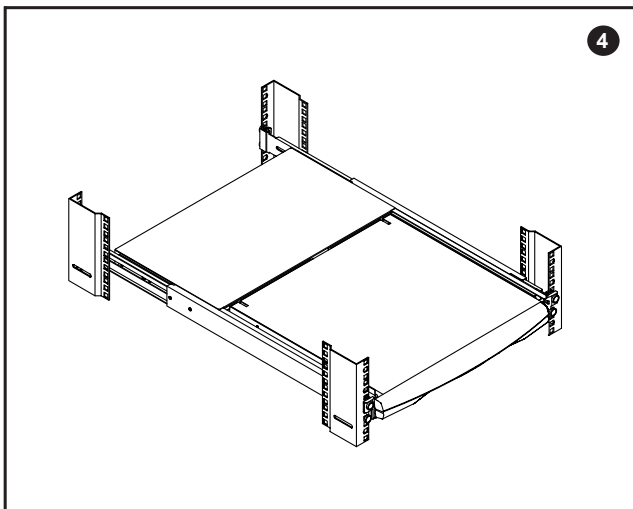
Caution : Leave the screws slightly loose until you complete the installation in step 4



- 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.



- 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.



Complete the installation

- Tighten all 8 pcs of M6 screw to complete the installation.



Figure 1. Pull the LCD drawer out of the rack.

- Press the carry handle button. Gently pull the carry handle toward the right as shown in Figure 1.

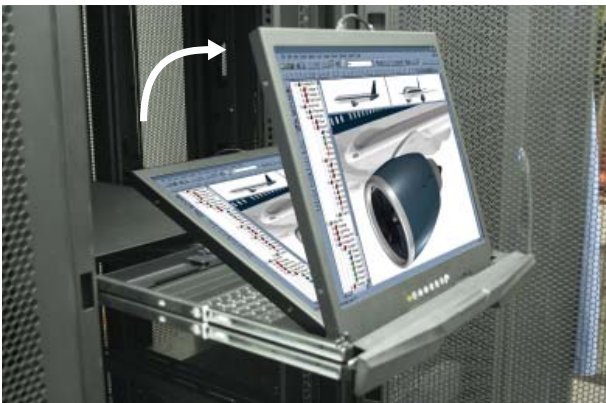


Figure 2. Tilt the LCD to a suitable angle.

- Tilt the LCD to a suitable angle shown in Figure 2.

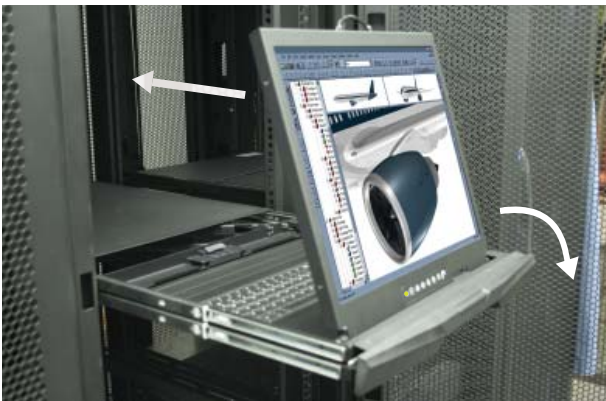


Figure 3. Flip the front panel up and pull the upper LCD drawer out of the rack.

- Flip the front panel up. Gently push the upper LCD drawer back into the rack as shown in Figure 3.



Figure 4. Operating the LCD keyboard drawer.

- Operate the LCD keyboard drawer as shown in Figure 4.



Figure 5. Flip up the front panel.

- Flip up the front panel toward the LCD (shown in **Figure 5**).



Figure 6. Slide the LCD keyboard drawer by pressing the carry handle button.

- Press the carry handle button. Gently push the carry handle and slide in the LCD keyboard drawer as shown in **Figure 6**.



Figure 7. Push the LCD drawer until it is locked in the rack.

- Hold down the carry handle button until the LCD drawer is locked in the rack as shown in **Figure 7**.

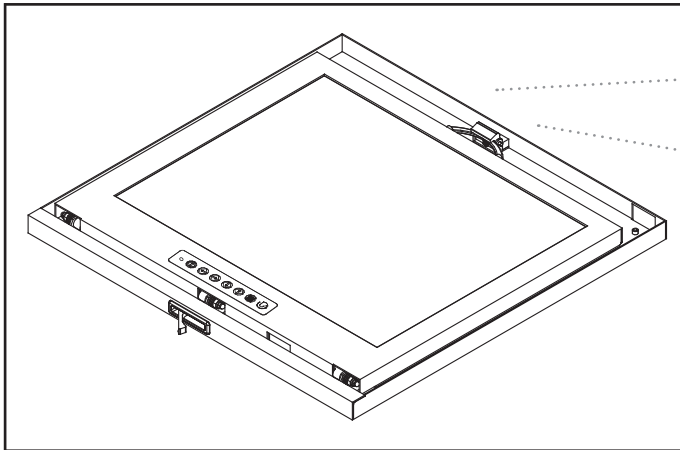


Figure 8.

■ Release the locking bracket in **Figure 8**.

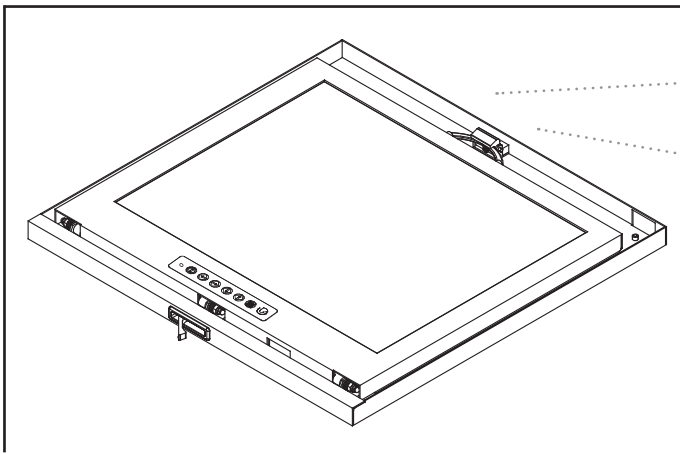


Figure 9.

■ The locking bracket will spring open in **Figure 9**.

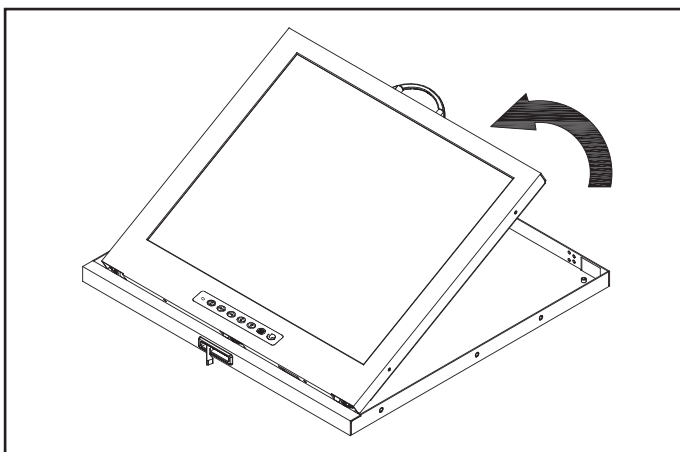


Figure 10.

■ Flip up the LCD panel.

1.13 ERDS-17 / 19 (Single Console)

Chapter 1

- Use CB-6 to connect to server via USB interface

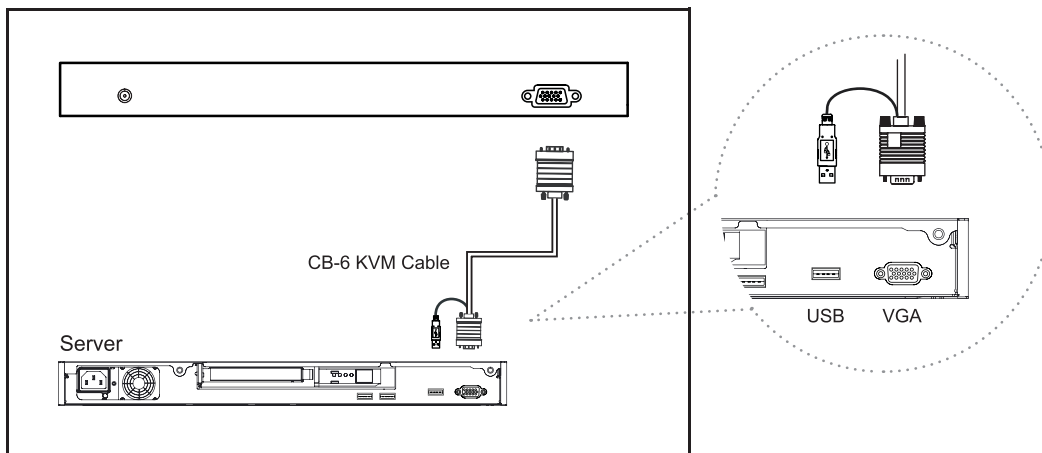


Figure 11. Example of connecting CB-6 2-in-1 USB KVM cable to server via USB interface

1.14 ERDS-17 / 19 (Single console)

- Use CB-6 to connect to KVM via USB interface

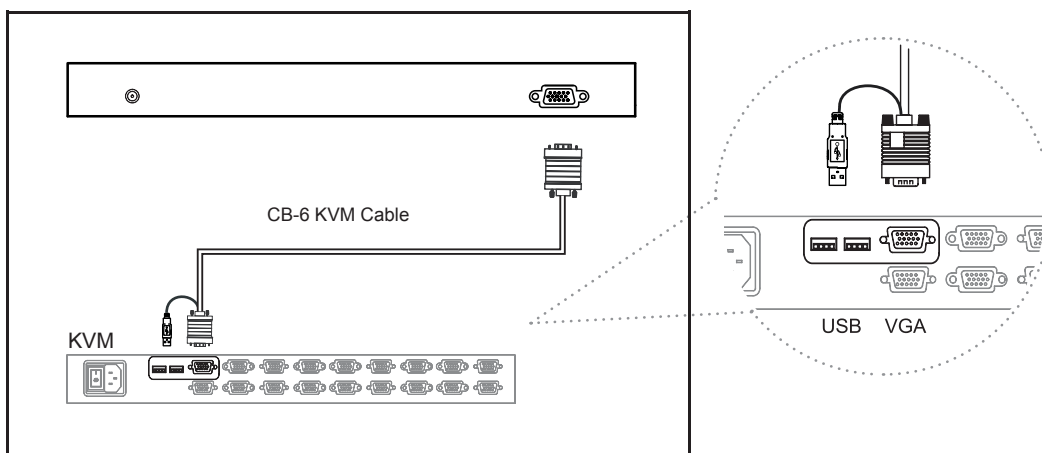


Figure 12. Example of connecting CB-6 2-in-1 USB KVM cable to KVM via USB interface

Please Note:

- The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The manufacturer is not responsible for damage caused in this way.
- The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The manufacturer is not responsible for damage caused in this way.



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1.15 ERD-17 / 19 (Single Console)

- Use CE-6 to connect to server via PS/2 interface

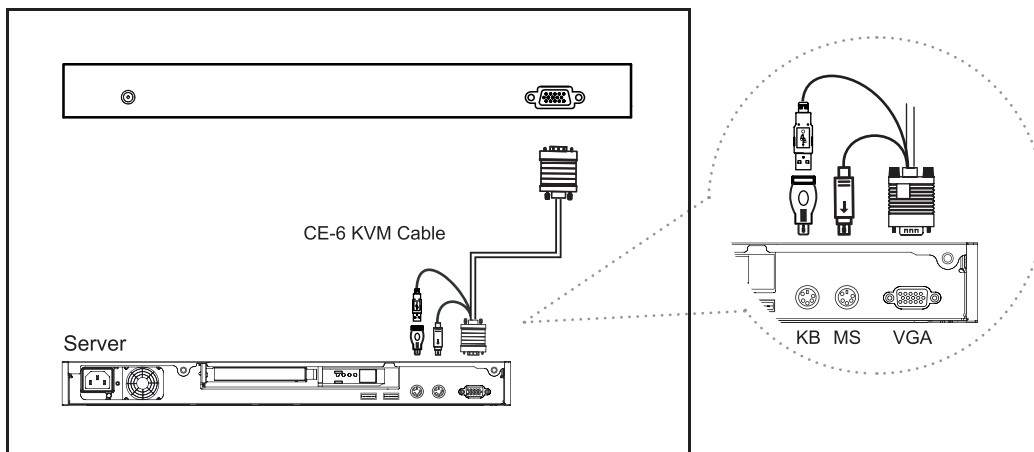


Figure 13. Example of connecting CE-6 Combo 4-in-1 KVM cable to server via PS/2 interface

1.16 ERD-17 / 19 (Single Console)

- Use CE-6 to connect to KVM via PS/2 interface

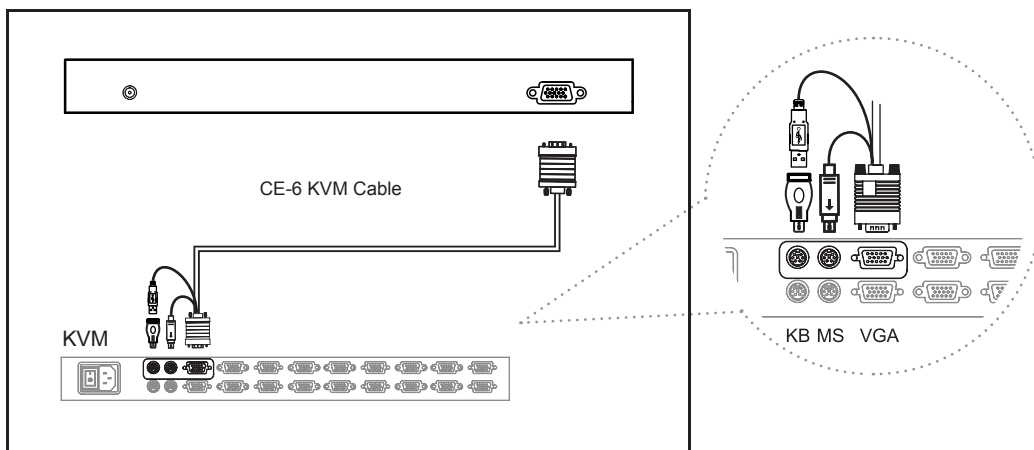


Figure 14. Example of connecting CE-6 Combo 4-in-1 KVM cable to KVM via PS/2 interface

Please Note:

- The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The manufacturer is not responsible for damage caused in this way.
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1.17 ERD-17 / 19 (Single Console)

- Use CE-6 to connect to server via USB interface

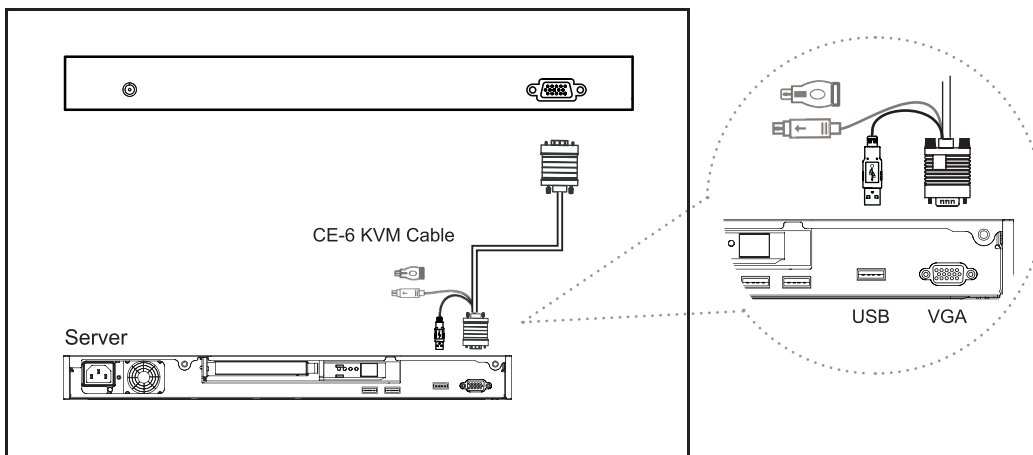


Figure 15. Example of connecting CE-6 4-in-1 Combo KVM cable to server via USB interface

1.18 ERD-17 / 19 (Single Console)

- Use CE-6 to connect to KVM via USB interface

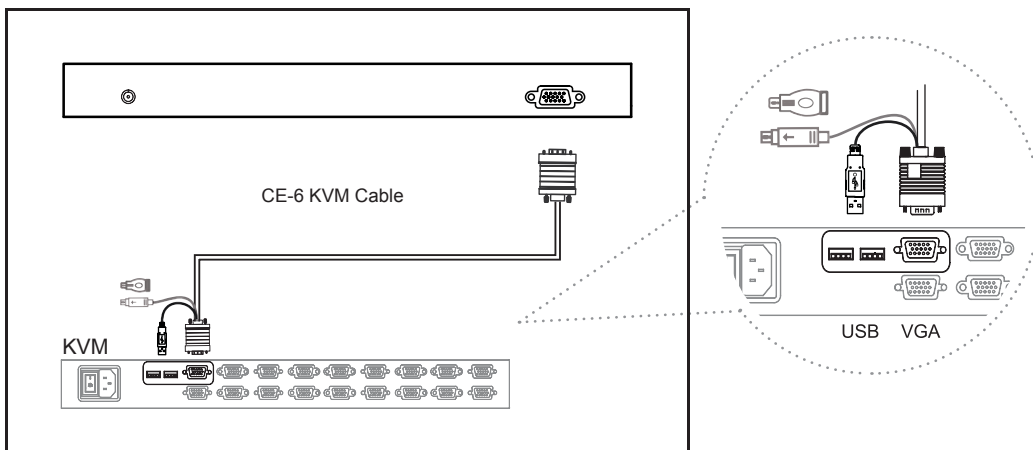


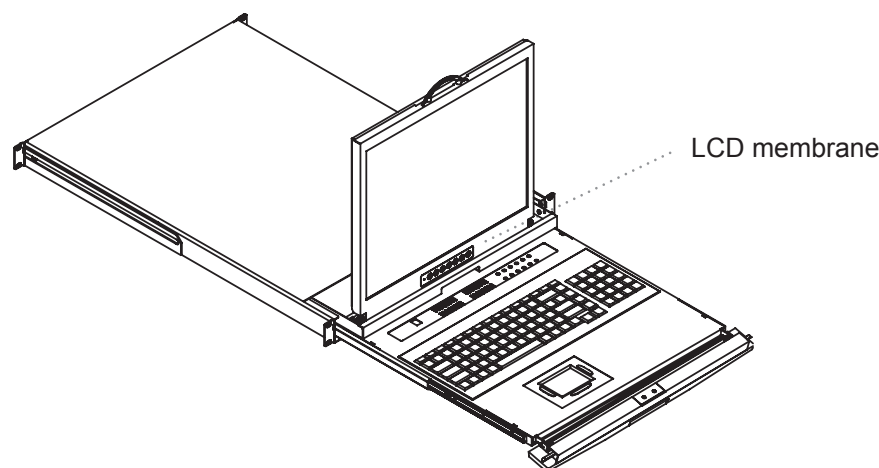
Figure 16. Example of connecting CE-6 4-in-1 Combo KVM cable to KVM via USB interface

Remarks :

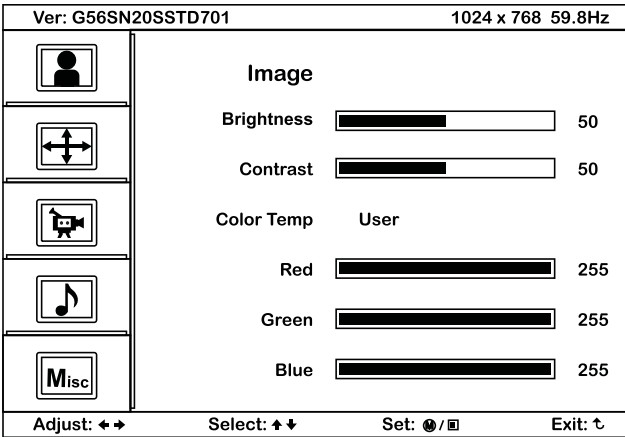
- The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD keyboard drawer. Before attempting to connect anything to the LCD keyboard drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard is receiving power. The manufacturer is not responsible for damage caused in this way.
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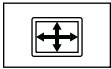
Membrane Switch	Function
<div><div></div><div></div><div></div></div>	Power light Green = On Orange = Power saving
<div></div>	Power on / off LCD
<div><div>M</div><div></div></div>	Display the OSD menu
<div><div></div><div></div><div></div><div></div></div>	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button <div></div> for 5 seconds)
<div></div>	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)



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

Chapter 3

Options

Environmental

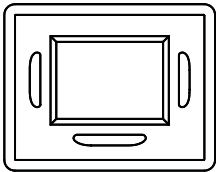
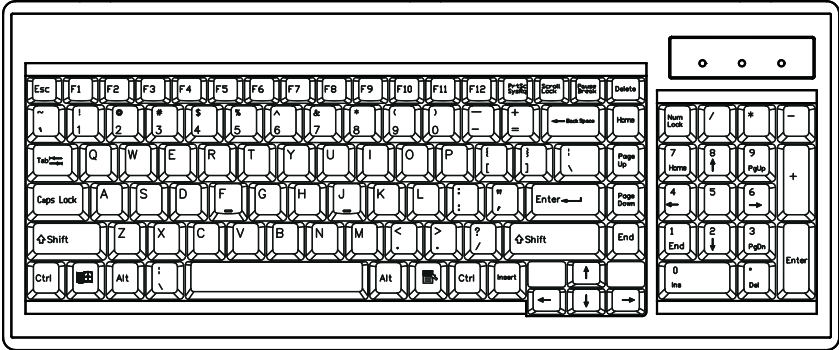
P.16

3.2 Keyboard & Mouse

For ERD Series

Chapter 3

Supporting layouts



N N keyboard integrated with touchpad

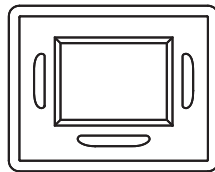
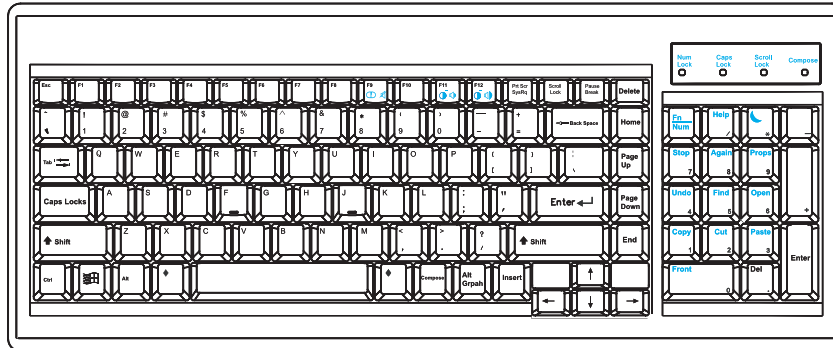
For ERDS Series

Chapter 3

Supporting layouts



N

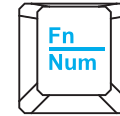
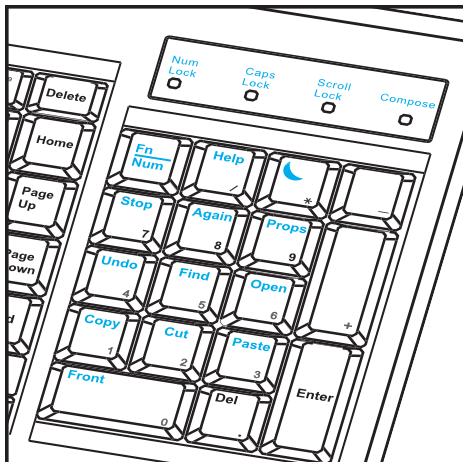


N keyboard integrated with touch pad

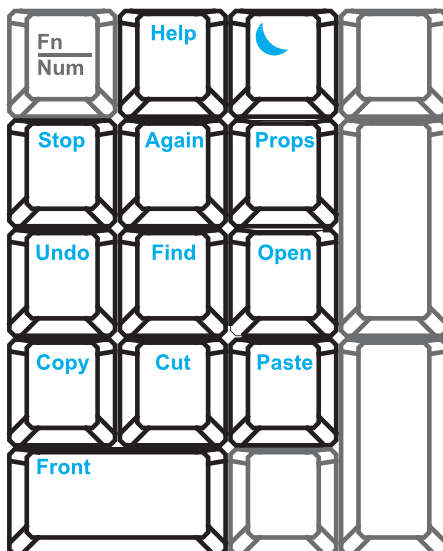


- Q&[]|!æ^•Ä~}Á^•/ä&~ää*Äü|]ÉÖ~äÜæcÉÖ[{}|•^ÉÖ[]^/æääP^|]
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface

■ V@ÜÜÜÄ~ } & [] æ| ^Ä^ ä [æä & [] [æ• Ä~ }] ^ & æä [{ æ äÄ^•

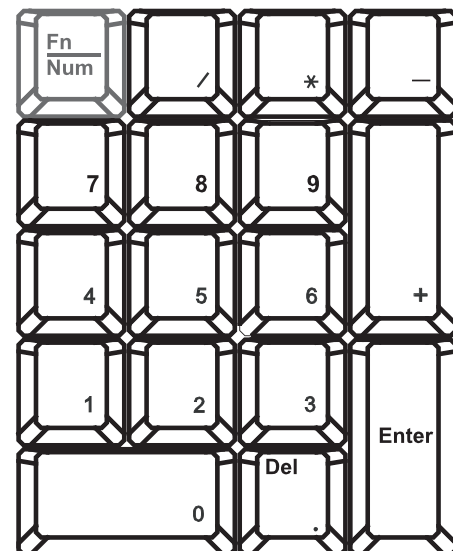


■ Press the Fn/Num button to switch the color the Num LED.



Num LED in Off mode

Key] æÄ] ^!æ• Ä S~ } Solaris system
administration command mode

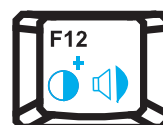
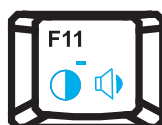
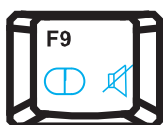


Num LED in Green color

Keypad behaves as a normal keypad mode

Three Audio / Display keys are located in the upper-right corner of the ÜÜÜ keyboard:

- Audio : Mute, decrease volume, increase volume.
- Display : Degauss, decrease contrast and increase contrast.
- Please ask your supplier for full details



Our KVM is designed to seamlessly integrate into the rear of our full range of LCD drawer solutions:

- For KVM operation, please refer to our KVM user manual
- Option 1: 3-in-1 VGA KB mouse console port
- Option 2: 3-in-1 VGA KB mouse console port + S-video + BNC
- Option 3: 3-in-1 VGA KB mouse console port + S-video
- Please ask your supplier for full KVM details

Please Note:

- The 3-in-1 VGA KB mouse console port is not available for the 3-in-1 VGA KB mouse console port + S-video + BNC option.

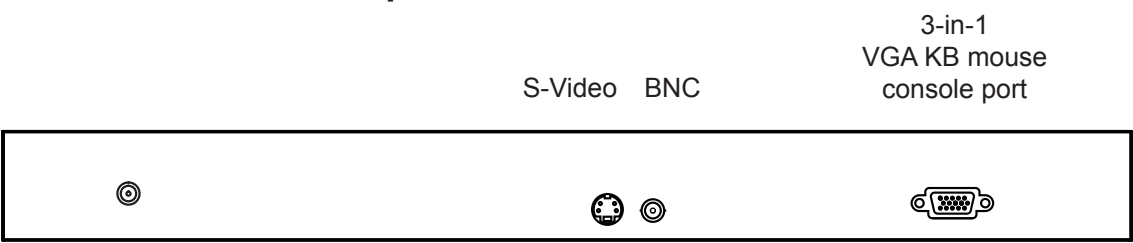
4.2 DVI-D Option



Please Note:

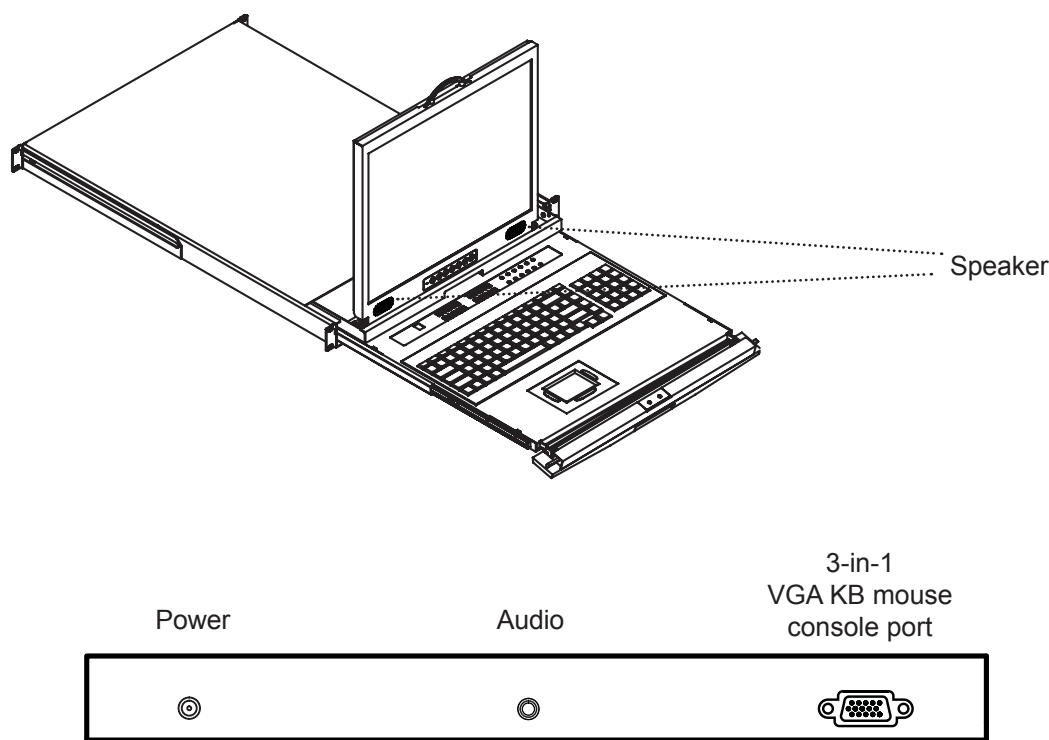
- Package includes 1 x 6ft DVI-D cable and 1 x 6ft 2-in-1 keyboard & mouse cable
- In DVD-D option, no VGA signal input is included

4.3 BNC + S-Video Option



Please Note:

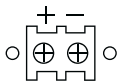
- Package includes 1 x 6ft S-Video cable



Please Note:

- Audio input is 35mm audio plug
- The speaker is sharing the same power with LCD.

4.5 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%

Please Note:

- P[, ^/Aca] * /A[o] & a^aA aOÖAU[, ^!A] a }

1. Is an interference signal appearing on the LCD normal when shutting down the computer?


In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.

2. The membrane power light is not lit?

Press the power On / Off on LCD membrane to check if the monitor is in the ON mode.

Check the power cord is properly connected to the LCD keyboard drawer and power outlet.

3. Screen image is not centered or sized properly

Press the  button for two seconds to automatically adjust the image.

Adjust the H-position and V-position settings via On-screen menu.

4. Is the LCD keyboard drawer hot-pluggable?

The LCD keyboard drawer is hot-pluggable, but components of connected devices, such as the servers and KVMs, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD keyboard receives power.

For ERD Series

1. How do I adjust the resolution?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

For ERDS Series

1. How can I adjust the monitor resolution to 1152 x 900 for SUN Micro systems ?

The ERDS LCD keyboard drawer will automatically detect the 1152 x 900 resolution, so no user configuration should be necessary.

2. How do I adjust the resolution in MS Windows operating system?

To change monitor resolution, click Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in Desktop Area. The available resolutions, "640 x 480", "800 x 600", "1024 x 768", "1152 x 864", "1280 x 1024", are determined by the display card in your computer.

3. The Stop-A hot key is not working in Trusted Solaris

The keyboard combination Stop-A (L1-A) is not available in Trusted Solaris by default. The security administrator can change this.

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Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
ERD-17 series	442 x 650 x 44 mm 17.4 x 25.6 x 1.73"	589 x 856 x 168 mm 23.2 x 33.7 x 6.6"	16 kg 35 lb	22 kg 48 lb
ERD-19 series	442 x 650 x 44 mm 17.4 x 25.6 x 1.73"	589 x 856 x 168 mm 23.2 x 33.7 x 6.6"	17 kg 37 lb	23 kg 51 lb
ERDS-17 series	442 x 650 x 44 mm 17.4 x 25.6 x 1.73"	589 x 856 x 168 mm 23.2 x 33.7 x 6.6"	16 kg 35 lb	22 kg 48 lb
ERDS-19 series	442 x 650 x 44 mm 17.4 x 25.6 x 1.73"	589 x 856 x 168 mm 23.2 x 33.7 x 6.6"	17 kg 37 lb	23 kg 51 lb

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