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2U Rackmount LCD Keyboard Drawer

User Manual

LCD21002

20" LCD

1.   Table Of Content

2. Read Before Installation

Technical Notes

<u>For Windows 98/98 SE systems</u>

● HID (Human Interface Device) driver must be installed **prior** to using the USB KVM switch. To install the HID driver, first connect a USB keyboard and mice directly to computer (before installing KVM switch) then follow the Windows installation instructions, this will install the HID device driver and allow the use of the KVM switch.

> **Note :** Failure to do so may result in Windows not being able to detect keyboard and mouse.

● If a mouse recognition error is displayed during system boot:

"Windows did not detect a mouse attached to the computer. You can safely attach a serial mouse now. To attach a mouse to a PS/2 mouse port, you must first turn the computer off"

a) Press the **Tab** key once to select the check box.

b) Press the **Space bar** once which will place a check in the box "*Do not show this message again*"

c) Press the **Enter** key once and Windows will continue to boot and will then recognize the mouse.

Operating System Compatibility

● Any USB-enabled operating system such as Solaris, Windows® 98, Windows® 98SE, Windows® 2000, Windows® XP or higher.

● Windows® 95 are not recommended because of immature USB support.

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3.   Introduction

S Solutions is total compatible with Solaris. The LCD screen support SUN native 1152 x 900 & standard resolutions. SUN-compatible keyboard incorporates SUN system administration commands keys.

It is a combination of keyboard, mouse and monitor into a drawer, with features such as flip-up design, adjustable brackets, built in LCD OSD to provide effective assistant for an administrator to control SUN/ PC system.

4.   Features

- Ultrahigh resolution 20" 1600 x 1200 TFT LCD display panel

- Standard color in purple (black options available)

- The screen direct supports most SUN native resolution, including 1152 x 900 @ 66 or 76Hz

- 104-keys SUN-compatible keyboard w/ 3 button trackball supports SUN keys, such as Stop, Cut, Paste, Compose, Copy and Help

- Compatible with SUN, Apple, IBM, DELL, HP and USB server

- Fits all current SUN rack depths of 24" to 36" through adjustable mounting brackets

- 12V, 24V, 48V DC power supply options

- Built-in KVM switch function for easy controlling and monitoring up to 16 residing servers/ platforms

- Support eight characters password protection and search PC server name

- Auto scan mode for monitoring PCs and flexible scan time from 5~99 seconds

- Hot Pluggable—Add or remove computers without powering down the switch

- Easily switch Individual button to select the PC channel using the push-button channel selector switches, Hot Keys, or via the On-Screen Display (OSD) Menu

<u>Disclaimer</u>
This information is subject to change without notice. The producer of this manual accepts no responsibility for damage or claims, resulting from misuse or misinterpretation

5. Package Contents

LCD Keyboard Drawer	1 Piece
User Manual	1 Piece
DC Power Adapter	1 Piece
Power Cord	1 Piece
Mounting Bracket	1 Pair
Fasteners	4 Pieces
LCD-A1014 2-in-1 KVM cable	1 Piece

Before Unpacking

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.

● Convenience for connecting the LCD Keyboard Drawer to the related facilities should be well considers too.

Unpacking

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

6.   Optional Accessories

KVM Cable	
LCD-A1014 / 15	6ft / 10ft / 15ft USB 2-in-1 cable
Cascade Cable	
LCD-A1019	6ft USB Cascade cable
Others	
Video Input	Composite, S-Video
DC Power Input	12V/ 24V/ 48V DC Power Supply

7.   Peripheral Products

Model	Description
LCDK1020	1U 4-Port USB KVM Switch
LCDK1021	1U 8-port USB KVM Switch
LCDK1090	1U 16-port USB two console KVM Switch
LCDK1041	CAT.5 PS/2 KVM Extender

8.   **Important Safeguards**

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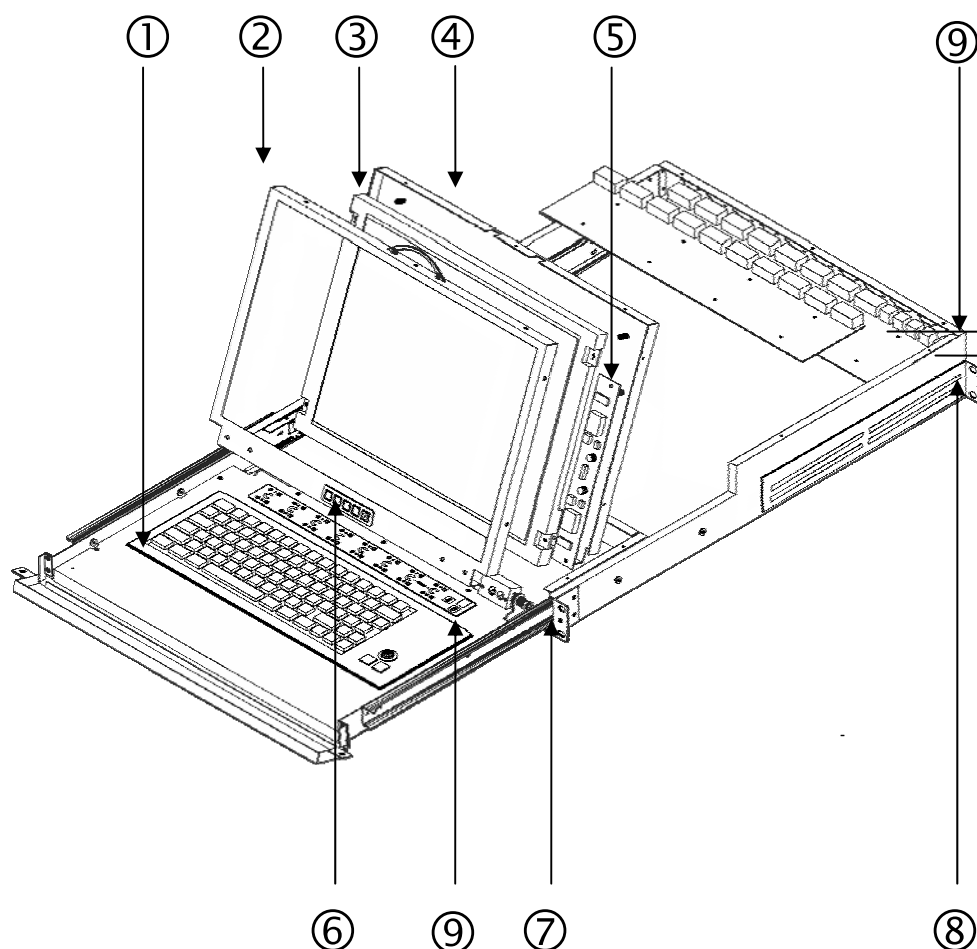Save this manual for future reference.

● Unplug the LCD Keyboard Drawer from the power outlet before cleaning.

● Do not spray liquid cleaners or aerosol directly on the device. Wet a cloth with a neutral detergent (e.g. clean water) and squeeze it tight, then clean the screen slightly with it.

● Do not expose the LCD Keyboard Drawer directly to rain, water, moisture or sunlight.

● Avoid pressure on the LCD screen to prevent permanent damage to the display.

● Do not attempt to service the device yourself. Improper operation may void your warranty. Refer all servicing to qualified service personnel.

● Safe storage environment of the LCD Keyboard Drawer is ranging between -20°C and 60°C. Permanent damage could occur if the LCD Keyboard Drawer is stored outside the safe range.

● Unplug the LCD Keyboard Drawer immediately and call qualified service personnel under the following conditions:
    1.   If the monitor has been exposed to rain, liquid or water.
    2.   If the monitor has been dropped or the casing has been damaged.

What the warranty does not cover

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

2.   Damage, deterioration or malfunction resulting from:
    a) Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
    b) Repair or attempted repair by anyone not authorized by us.
    c) Any damage of the product due to shipment.
    d) Removal or installation of the product.
    e) Causes external to the product, such as electric power fluctuation or failure.
    f)   Use of supplies or parts not meeting our specifications.
    g) Normal wear and tear.
    h) Any other causes which does not relate to a product defect.
3.   Removal, installation, and set-up service charges.

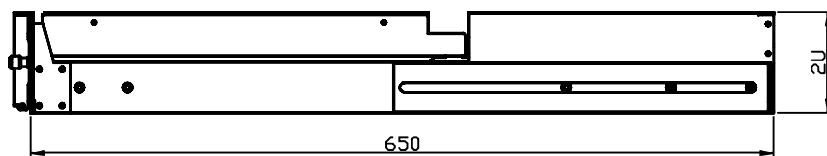## 9.   Structure Diagram

1.   Keyboard

2.   Aluminium front panel

3.   Class A active matrix TFT LCD panel

4.   Rear metal case

5.   LCD inverter

6.   LCD membrane

7.   Ball bearing telescopic slides with stopper

8.   Adjustable mounting bracket
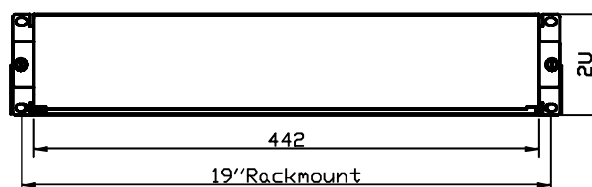
9.   KVM switch module & membrane (KVM option only)

10.   Dimension Diagram
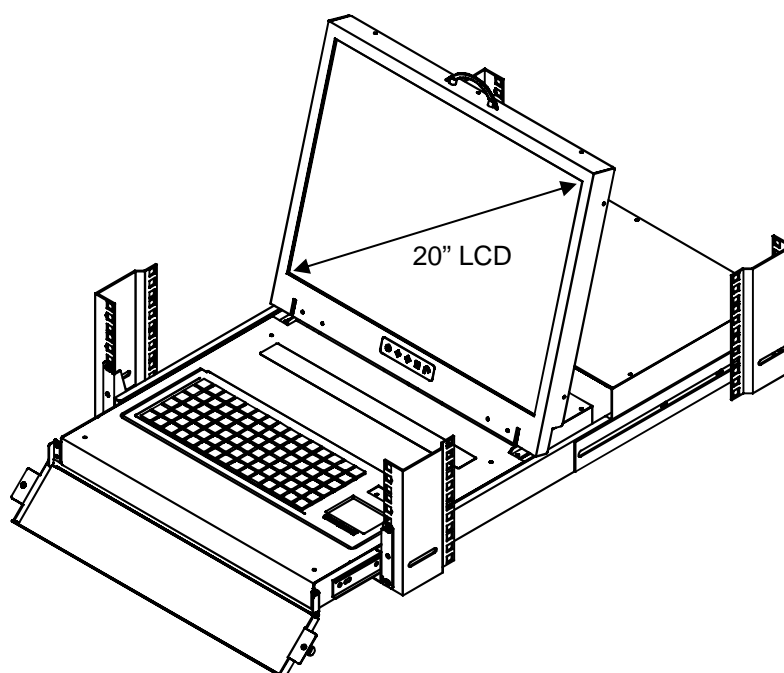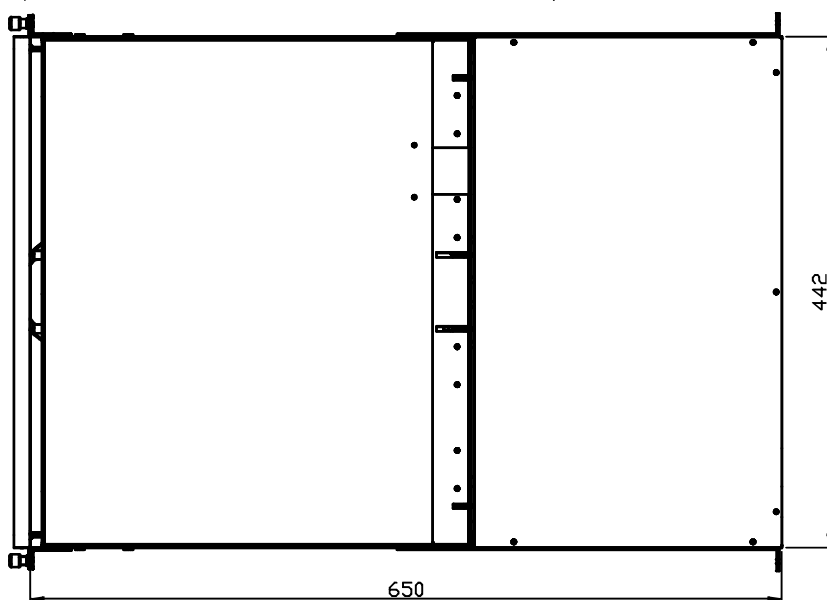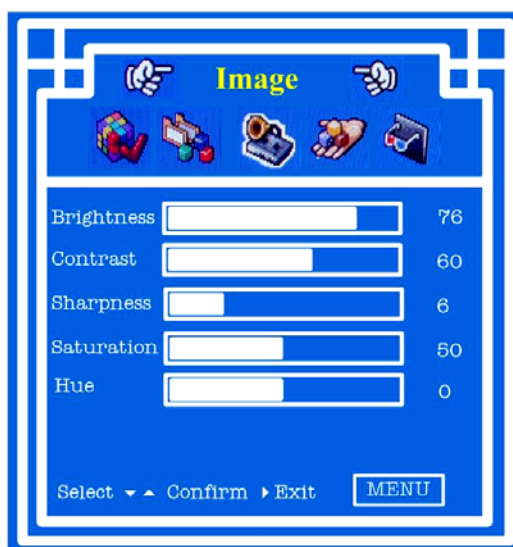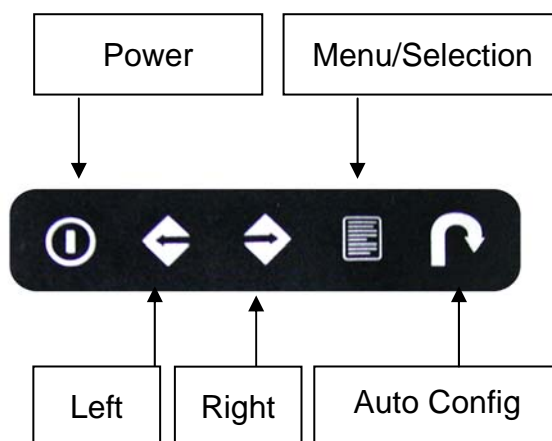
LCD2U20-01 2U 20" LCD Keyboard Drawer

Side View

2U

650

Front View

2U

442

19"Rackmount

Top View

442

650

20" LCD

11.   LCD OSD Menu Operation

LCD Membrane Diagram

| Power | Menu/Selection |

| Left | Right | Auto Config |

Main Menu

Image

● To enter into the Brightness, Contrast, Sharpness, Saturation, Hue sub-menu

Geometry

● To enter into Auto Conflg., H. Position, V. Position, Clock, phase sub-menu

Function

● To enter into the OSD Position, OSD Zoom and Color Temp. sub-menu

System

● To enter into the Language, Time, Power OFF and Reset sub-menu.

11.   LCD OSD Menu Operation

Image

Brightness

To adjust brightness level of the input signal

Use the ▼ button to select the function, then use ◀/▶ button to adjust from 0-100

Contrast

To adjust the contrast level of the input signal

Use the ▼ button to select the function, then use ◀/▶ button to adjust from 0-100

Sharpness

To adjust the sharpness level of the input signal

Use the ▼ button to select the function, then use ◀/▶ 'button to adjust from 0-35

Saturation

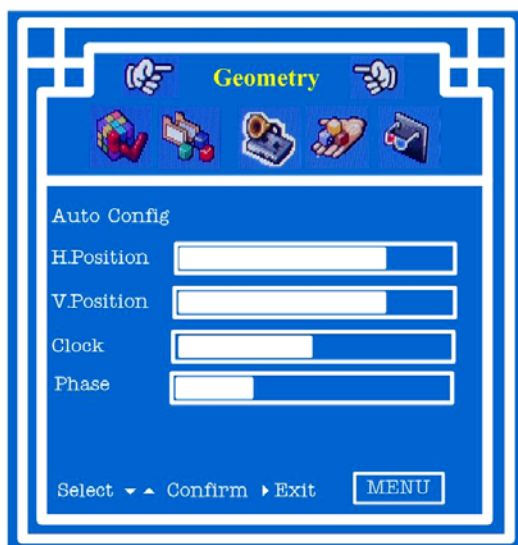To adjust the saturation level of the input signal

Use the ▼ button to select the function, then use ◀/▶ 'button to adjust from 0-100

Hue

To adjust the Hue level of the input signal

Use the ▼ button to select the function, then use ◀/▶ button to adjust from (–19)-0-(+19)

11. LCD OSD Menu Operation

Geometry

Auto Conflg

To perform auto adjustment of the screen output.

Use the ▼ button to select the function, then use the ◀/▶ button to select " Auto Conflg"

H. Position

To adjust Horizontal Position of the screen output.

Use the ▼ button to select the function, then use the ◀/▶ button to adjust "H. Position"

V. Position

To adjust Vertical Position of the screen output.

Use the ▼ button to select the function, then use the ◀/▶ button to adjust " V. Position"

Clock

To adjust the width of the image

Use the ▼ button to select the function, then use the ◀/▶ button to adjust "Clock" .

Phase

To perform snow noise adjustment of the image.

Use the ▼ button to select the function, then use the ◀/▶ button to adjust " Phase"

11.   LCD OSD Menu Operation

Function

OSD Position

To perform OSD position selection of the screen

Use the ▼ button to select the function, then use the ◄/► button to select the digit for

the OSD display region.

OSD Zoom

To perform OSD Zoom function of the OSD image

Use the ▼ button to select the function, then use the ◄/► button to on/off the OSD

Zoom function

Color Temp.

To perform the Color Temperature selection of the image output

Use the ▼ button to select the function, then use the ◄/► ' button to select " Stan-

dard", "Cool", "Warm" and "User"

11. LCD OSD Menu Operation

```
┌──────────────────────────────┐
│  (☞      System     ☜)        │
│   🧊 📋 🔧 👆 📓              │
│                              │
│  Language      English       │
│  Time          12:43         │
│  Power OFF     00:00    OFF   │
│  Reset                       │
│                              │
│                              │
│  Select ▾▴ Confirm ▸Exit [MENU]│
└──────────────────────────────┘
```

System

Language

To perform Language selection of the function display

Use the ▼ button to select the function, then use the ◀/▶ button to select suitable display language " English", "Chinese (中文)", "Deutsch", "Francais", "Espanol", "Italiano" and "Japanese (日本語)".

Time

To perform time setting of the system.

Use the ▼ button to select the function, then input the time setting and restore

Power OFF

To perform preset power off setting

Use the ▼ button to select the function, then input time setting and use ◀/▶ button to

on/off the function.

Reset

To perform reset all stored parameters to factory preset mode

Use the ▼ button to select the function, then use ◀/▶ button activate the function.

12.   Technical Specification

LCD

Item	Description
LCD Screen Manufacturer	SAMSUNG
LCD Origin	South Korea
Panel	20" TFT
Resolution	1,600 x 1,200
Brightness	300 cd/m^2
Color	1.67M
Contrast Ratio	800 : 1
Viewing Angle (H x V)	160° x 160°
Display Area	408 x 306
Pixel Pitch	0.255 mm
Response Time (Tr)	1ms
Response Time (Tf)	4ms
Back Light	2 Dual CCFTs (Cold Cathode Fluorescent Tube)
Horizontal Sync.	61.7 - 93.2 kHz
Vertical Sync.	50 - 75 Hz
Input Signal	Analog RGB 0.7Vp-p
Power Management	VESA DPMS
OSD Control	Brightness, Contract, Colour, Clock
	H.Position, V.Position, Phase, Scaling
	Auto Config., Input Select, Multi-Window
	Clear EEPROM, OSD adjust
Power Input	12V DC Adapter
Video Input	15-pin D-sub Connector

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