User Manual

RKP1615 / 1617 / 1619

1U 15″ / 17″ / 19″ Rackmount

TFT LCD Monitor Keyboard Drawer

1.   Table Of Content

2.　　Introduction

RKP Series 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 PC system.

RKP Series provides cost effective for your limited IT budget over using CRT and rack mounting. Also, it will be space saving for your compact environment rack and effective assistant for an administrator to control PC system.

3.　　Features

- Built in On Screen Display controlled by integral membrane switches.

- Black anodized aluminium front panel

- High quality "d" type keyboard with intergrated trackball mouse

- Standard D-sub 15—pin VGA input connector

- Lock out rails to prevent movement of the keyboard

- Supplied with 12V 5A remote power adapter

Disclaimer
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

4.   Package Contents

LCD Monitor	1 Piece
User Manual	1 Piece
DC Power Adapter	1 Piece
Power Cord	1 Piece
Mounting Bracket	1 Pair
Key for Front Access Lock	2 Pieces
Fasteners	4 Pieces
CD-6 3-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.

5.　　Optional Accessories

Video Input	
12V / 24V / 48V DC Power	
SUN-31	SUN / iMac USB to PS/2 Adapter

6.　　Peripheral Products

Model	Description
CV-401 / CV-801 / CV-1601	4-Port / 8-port / 16-Port PS/2 KVM switch
CV-1602	16-Port 2-Console PS/2 KVM switch
CV-S801 / CV-S1601	8-Port /16-port USB KVM switch
CV-S1602	16-port 2-Console USB KVM switch
CV-101	CAT.5 PS/2 KVM extender

7. 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. The VGA signal cord is frayed or damaged.
　2. If the monitor has been exposed to rain, liquid or water.
　3. 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.

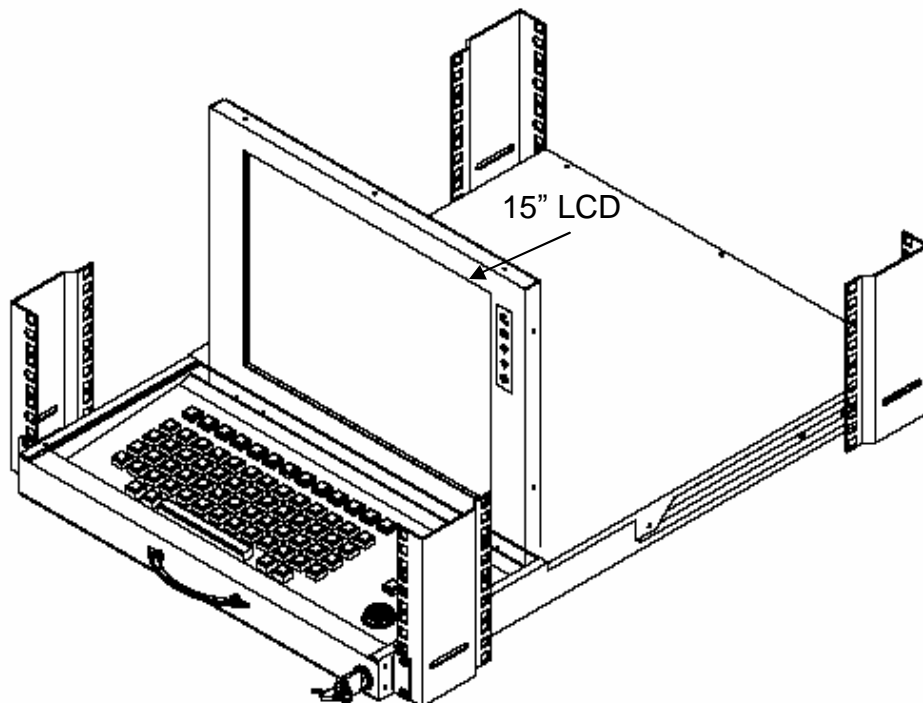3. Removal, installation, and set-up service charges.
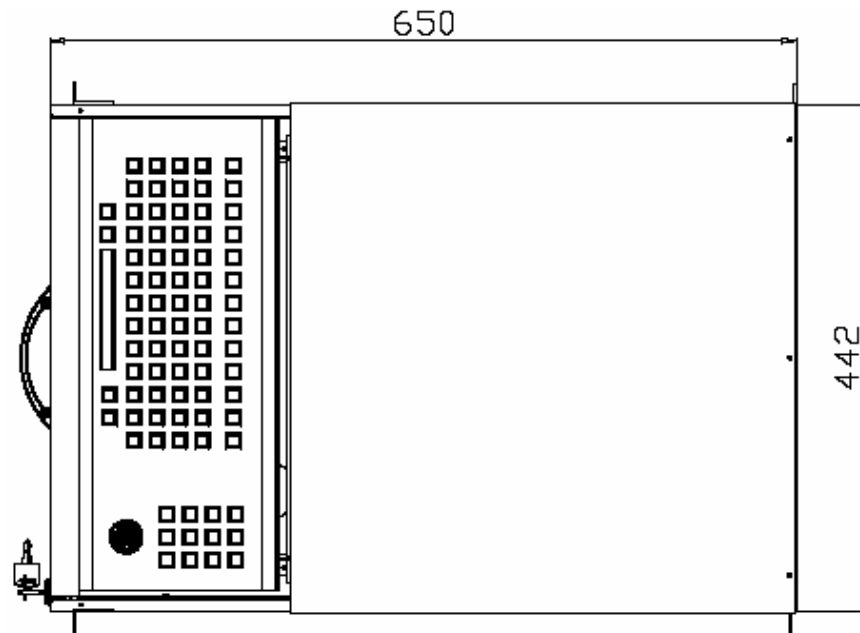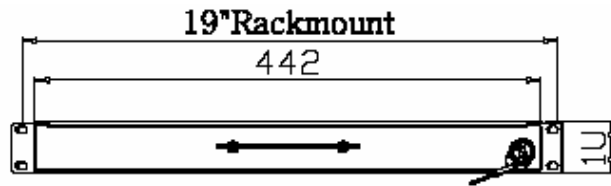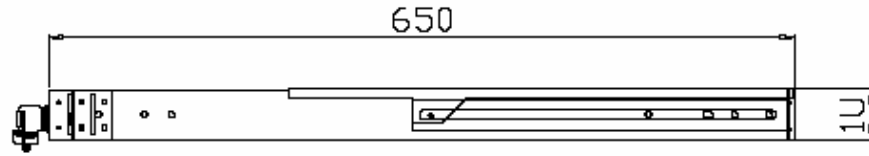
8.   Structure Diagram

1.   PS/2 keyboard

2.   Aluminium front panel

3.   Class A active matrix TFT LCD panel

4.   Rear metal case

5.   Analog to digital signal converter board

6.   LCD inverter

7.   LCD membrane

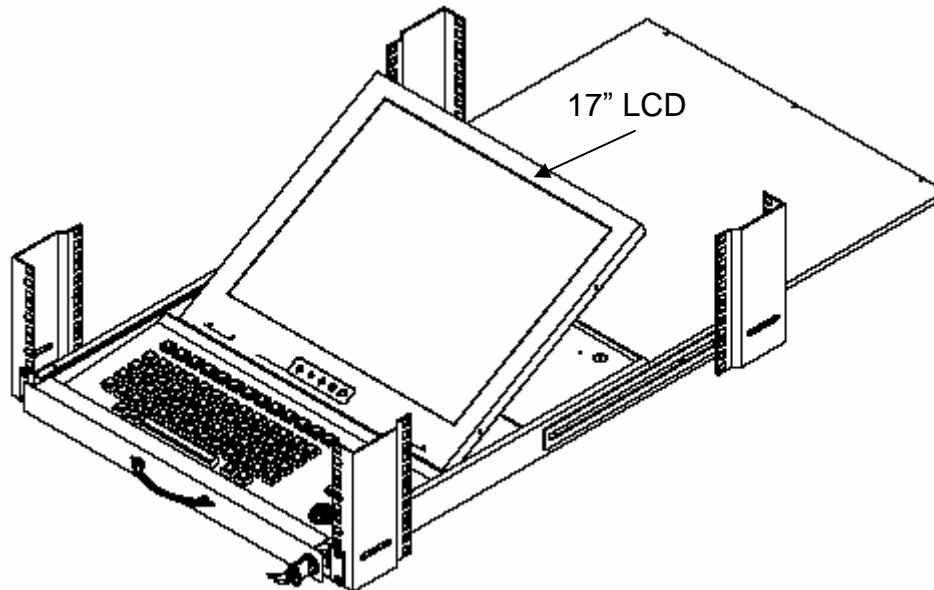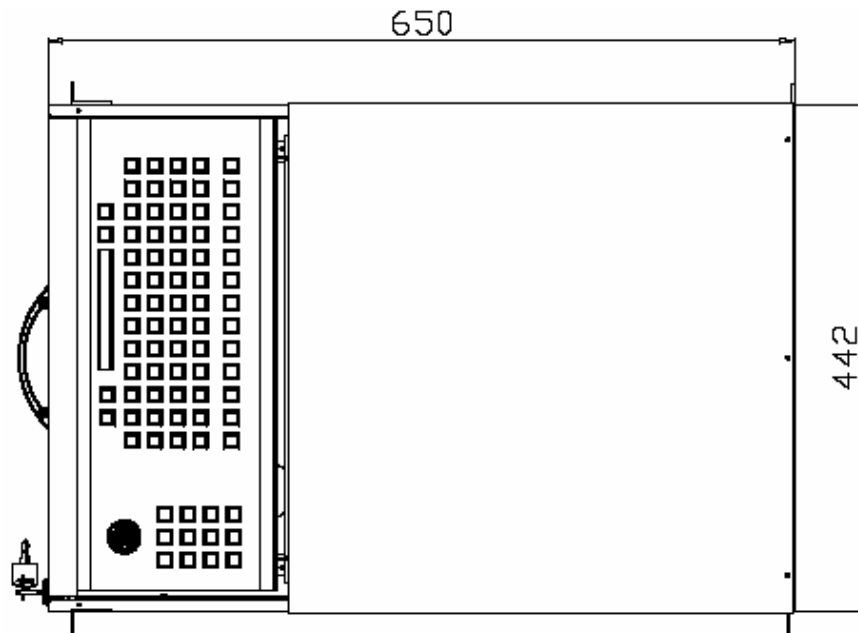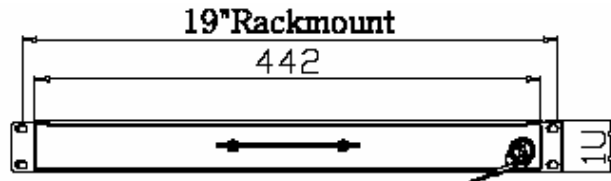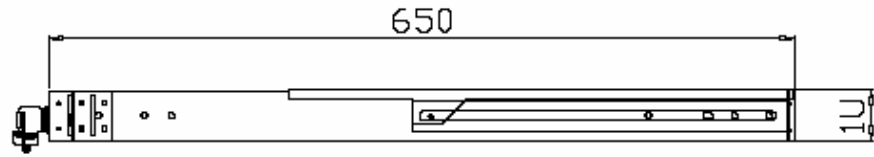8.   Adjustable mounting bracket
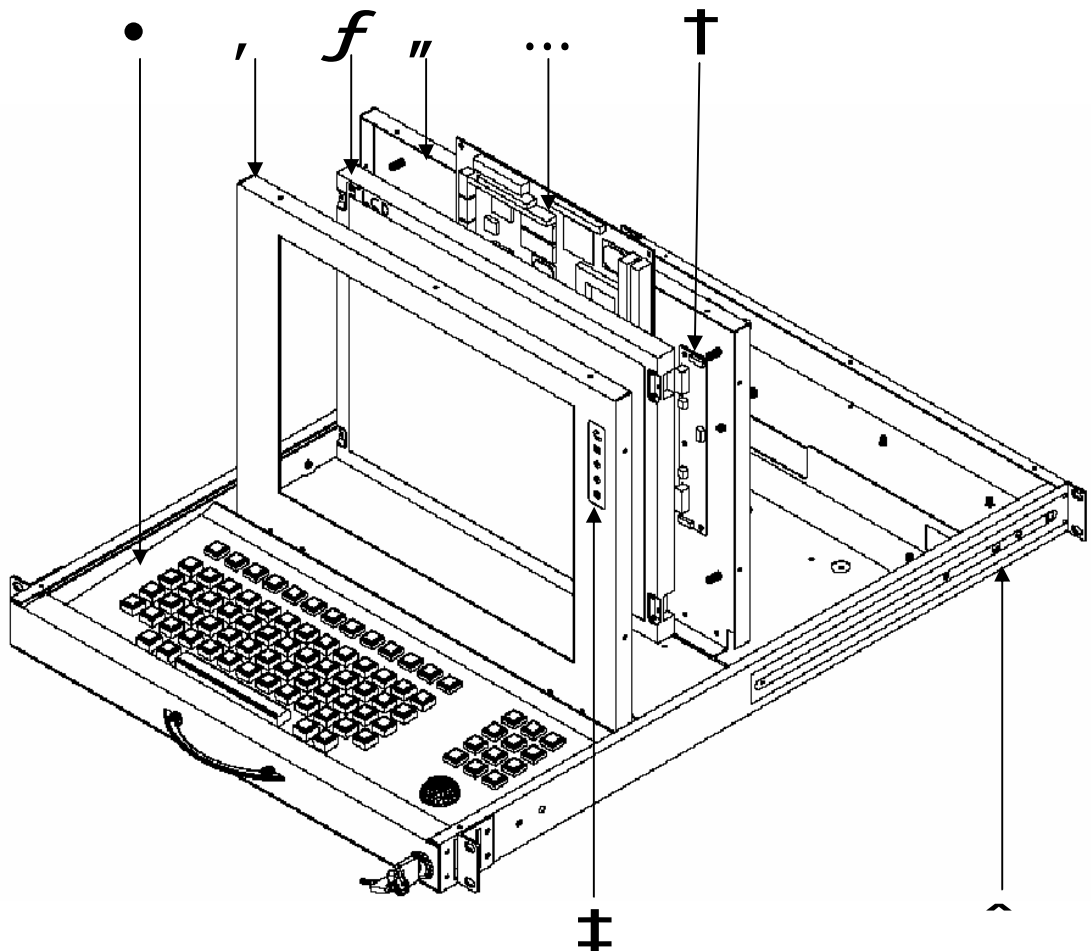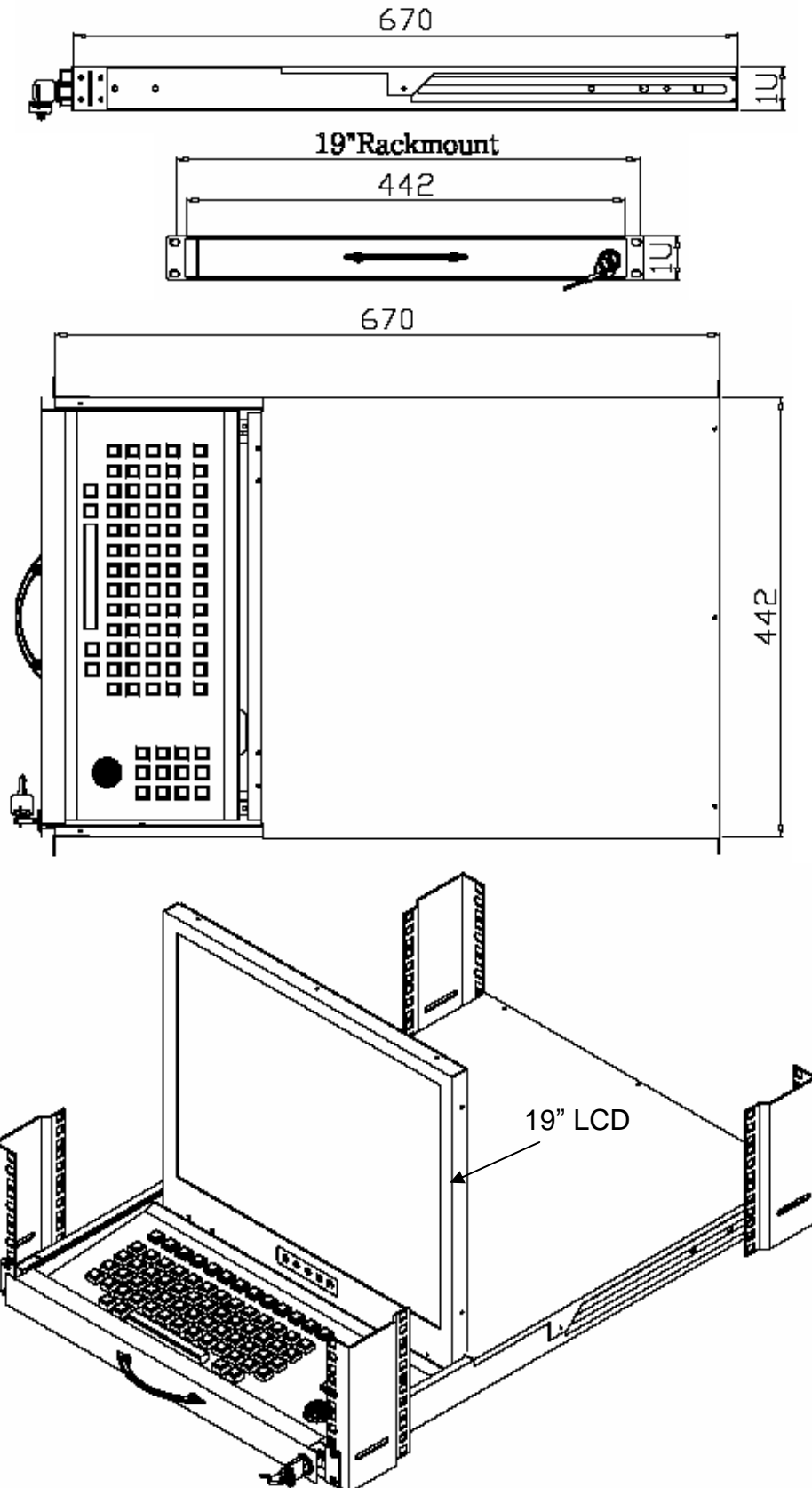
9. Dimension Diagram

RKP1615 1U 15" LCD Keyboard Drawer

9.   Dimension Diagram

RKP1617 1U 17" LCD Keyboard Drawer

17" LCD

9.   Dimension Diagram

RKP1619 1U 19" LCD Keyboard Drawer

10.   LCD OSD Menu Operation

<u>LCD Membrane Diagram</u>

Power		Menu/Selection

Left	Right	Exit

MAIN MENU
BRIGHT/CONTRAST **AUTO ADJUST** **PHASE/CLOCK** **H/V POSITION** **MISC** **RESET**
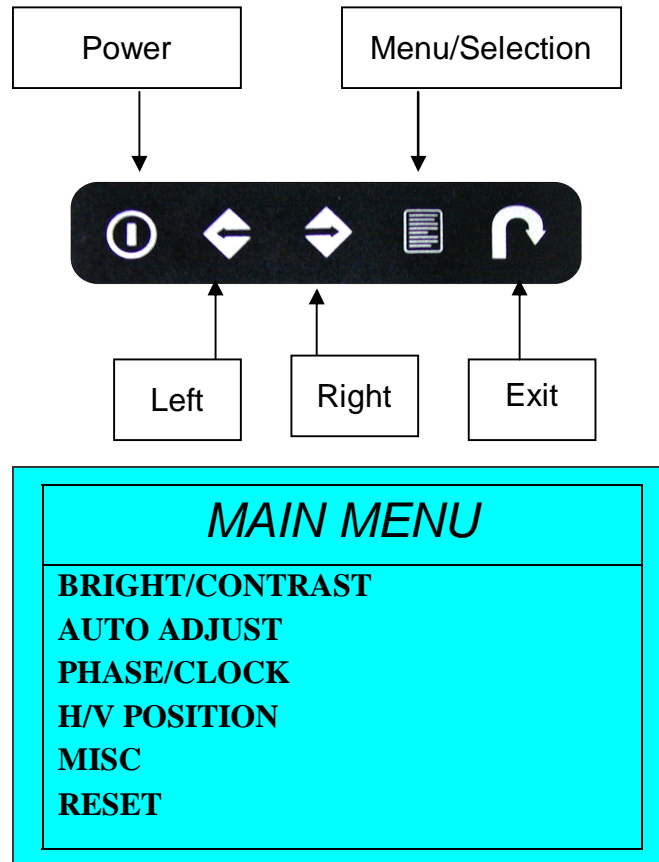
<u>Main Menu</u>

Bright / Contrast

- To enter into the Bright, Black level & Contrast sub-menu

Auto Adjust

- To perform automatic optimisations of all functions
- An " Adjusting" message is displayed during the process

Phase / Clock

- To enter into the phase & clock sub menu

H/V Position

- To enter into the Position sub-menu

MISC

- To enter into the MISC sub-menu

Reset
- Reset to the default factory settings

10.　LCD OSD Menu Operation

Bright / Contrast

1. **Brightness**
   - To perform brightness adjustment of the input RGB signal
   - Use the Left & Right button to adjust and button ▤ to "Brightness"

2. **Contrast**
   - To adjust the contrast level of the input signal
   - Use the Left & Right button to adjust and button ▤ to "Contrast"

Phase / Clock

1. **Phase**
   - To adjust input video sampling clock's phase
   - Use the Left & Right button to adjust and button ▤ to "Phase"

2. **Clock**
   - To adjust input video sampling clock
   - Use the Left & Right button to adjust and button ▤ to "Clock"

H/V Position

1. **H.Position**
   - To adjust the horizontal size of the frame
   - Use the Left & Right button to adjust and button ▤ to "H.position".

2. **V.Position**
   - To adjust the vertical position of the frame
   - Use the Left & Right button to adjust and button ▤ to "V.position".

10.　LCD OSD Menu Operation

MISC

1. Information

- The first header row shows the current resolution setup
- The second header row shows the horizontal frequency of the current input signal
- The third header row shows the vertical frequency of the current input signal

2. OSD Timer

- To modify the duration of the OSD time-out

3. Color

a) 5500K

- Select Colour Temp at 5500K

b) 6500K

- Select Colour Temp at 6500K

c) 9500K

- Select Colour Temp at 9500K

d) User

- Change Colour Temp by manual

4. Language

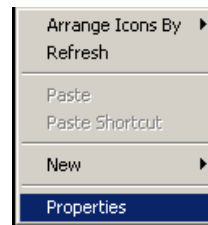- To select the language of OSD menu 7 Languages :

(1) English

(2) Japanese (日本語)

(3) Chinese (中文)

(4) German

(5) Francais

(6) Espanol

(7) Italiano
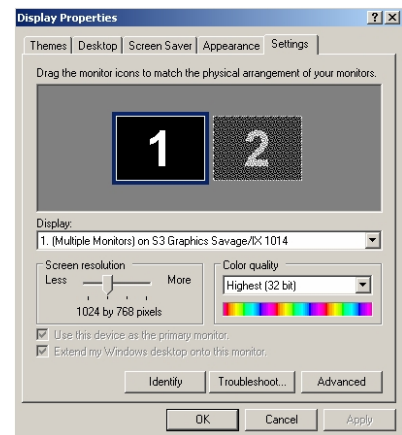
11.   Resolution Settings

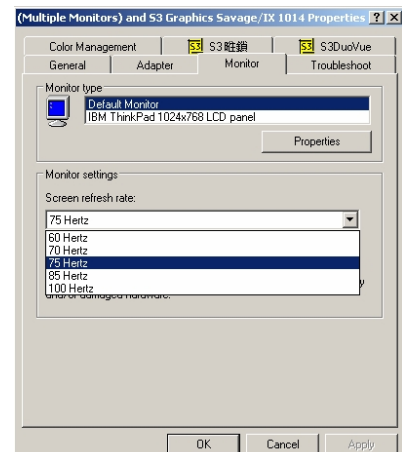# For Microsoft Windows

Step 1 – Press right click on the desktop

Step 2 – Choose "Properties"

Step 3 – Change the "Screen Resolution"

Step 4 – Change the "Screen refresh rate"

11. Resolution Settings

For SUN Servers

- Resolution configuration procedures should be run by qualified SUN server administrator
- Sun Servers are using resolution at 1152 x 900 x 76Hz.
- Supported resolution mode for 15" LCD:
- 1024 x 768 x 70/75Hz
- Supported resolution mode for 17" LCD:
- 1280 x 1024 x 75Hz
- You need to change the Sun Server resolution before you connect to LCD Display.
- Please do the following procedures to change the resolution settings :

    1. As root:

        You may find the following comment "/user/sbin/m64config".

    2. To view current resolution:

        Type "/user/sbin/m64config – prconf".

    3. To change to 1024x768 @ 70MHz:

        Type "/user/sbin/m64config – res 1024x768x70 now".

    4. The screen will be rubbish.

    5. Then type "pkill Xsun".

        And Type "pkill Xsession" to restart the Xsession.

    > **Note :** Remember to RESTART the server after these processes.

- Under Common Desktop Environment (CDE).

- To change the OpenBoot resolution, you can type the following command in OK prompt.

    1. In OK prompt, type "setenv output-device screen:r1024x768x70".

    2. Type "printenv" to confirm the resolution has been changed to 1024x768x70Hz.

    3. Then type, "reset" to restart the system.

    > **Note :** Remember to RESTART the server after these processes

12.   Technical Specification

Item	Description		
LCD Screen Manufacturer	SAMSUNG		
LCD Origin	South Korea		
Panel	**15" TFT**	**17" TFT**	**19" TFT**
Resolution	1,024 x 768	1,280 x 1,024	1,280 x 1,024
Brightness	300 cd/m^2	350 cd/m^2	500 cd/m^2
Color	16.2 Million	16.2 Million	16.7 Million
Contrast Ratio	450:1	350:1	500:1
Viewing Angle	140° x 125°	140° x 120°	170° x 170°
Display Area	304 x 228 mm	337 x 270 mm	376 x 301 mm
Pixel Pitch	0.297 mm	0.264 mm	0.294 mm
Response Time (Tr)	5ms		15ms
Response Time (Tf)	20ms		10ms
Back Light	4 x Cold Cathode Fluorescent Tube		
Horizontal Sync.	48.4 kHz	64 ~ 80 kHz	64 kHz
Vertical Sync.	65 MHz	60 ~ 75 Hz	60 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		
Dimension	RKP1615 / 1617 : 44.2W x 4.45H x 65D cm RKP1619 : 44.2W x 4.45H x 67D cm		
Weight	RKP1615 : 19kg / RKP1617 : 20kg / RKP1619 : 22kg		

*All brand names, logo registered trademarks are properties of their respective owners.