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# User Manual

**LCD2U20-011**

**2U 20" Rackmount LCD Monitor**

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## 2. Introduction

RP series is a monitor with built in LCD OSD to provide effective assistant for an administrator to control PC system.

RP 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.

## 3. Features

- Unique monitor flip up design allows viewing through closed glass door of cabinet
- Ultrahigh resolution 20" 1600 x 1200 TFT LCD display panel
- Lightweight Aluminium construction – with black anodize finish
- Styled 6mm aluminium front panel
- Side to side wide-angle viewing as CRT monitor.
- Built-in On Screen Display controlled by integral membrane switches
- Standard D-sub 15-pin VGA input connector
- Lower power consumption

### 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
VGA cable (6 feet)	1 Piece

### Before Unpacking

It is very important to locate the LCD Monitor in a suitable environment.

- The surface for placing and fixing the LCD Monitor 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 Monitor to the related facilities should be well considers too.

### Unpacking

The LCD Monitor 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
- 24V / 48V DC Power Supply

## 6. Peripheral Products

Model	Description
LCDK1002 / LCDK1016	1U Rackmount Industrial Keyboard Drawer
LCDK1009	1U 4-Port PS/2 KVM Switch
LCDK1010	1U 8-port PS/2 KVM Switch
LCDK1011	1U 16-port PS/2 KVM Switch
LCDK1019	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.

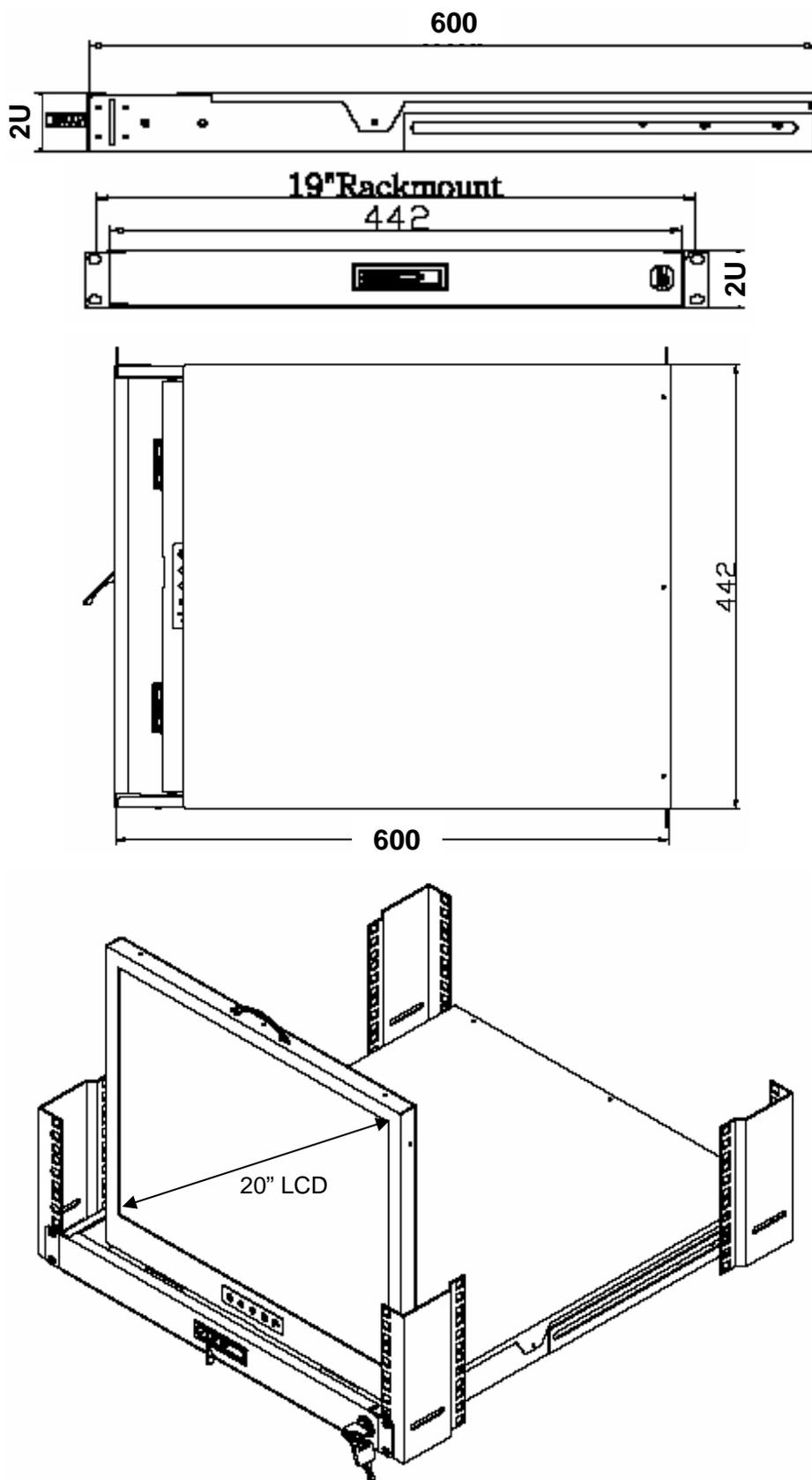
- Unplug the LCD Monitor from the power outlet before cleaning.
- Do not spray liquid cleaners or aerosol directly on the device. Wet a cloth with a neutral detergent (e.g. clean water) and squeeze it tight, then clean the screen slightly with it.
- Do not expose the LCD Monitor directly to rain, water, 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 Monitor is ranging between  $-20^{\circ}\text{C}$  and  $60^{\circ}\text{C}$ . Permanent damage could occur if the LCD Monitor is stored outside the safe range.
- Unplug the LCD Monitor 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.

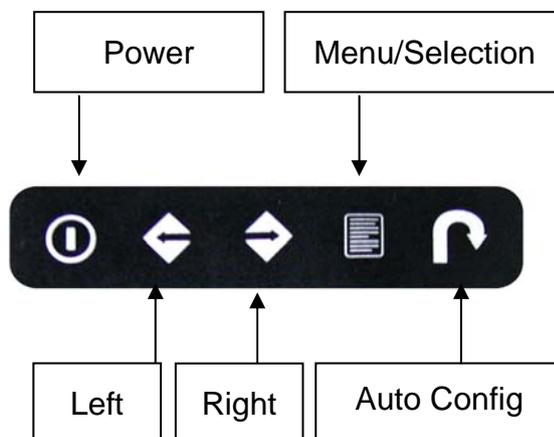
## 8. Dimension Diagram

### LCD2U20-011 2U 20" LCD Monitor



## 9. LCD OSD Menu Operation

### LCD Membrane Diagram



### 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.

## 9. 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)

## 9. LCD OSD Menu Operation



### Geometry

#### **Auto Config**

To perform auto adjustment of the screen output.

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

#### **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"

## 9. 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 “Standard”, “Cool”, “Warm” and “User”

## 9. LCD OSD Menu Operation



### 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

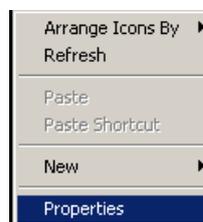
Use the ▼ button to select the function, then use ◀/▶ button activate the function.

## 10. Resolution Settings

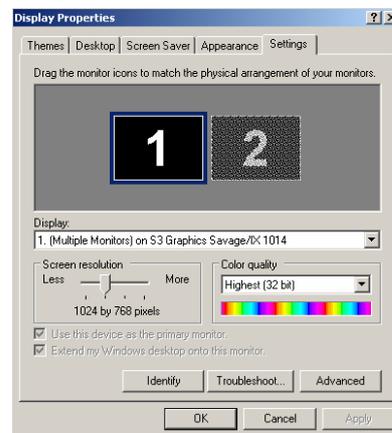
### For Microsoft Windows

Step 1 – Press right click on the desktop

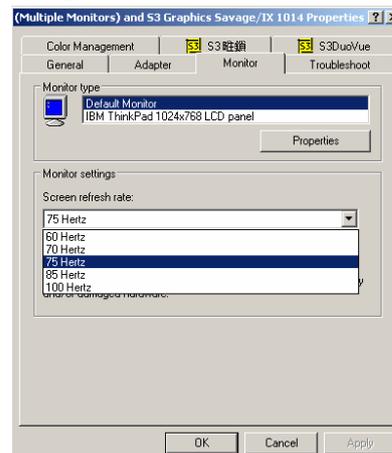
Step 2 – Choose “Properties”



Step 3 – Change the “Screen Resolution”



Step 4 – Change the “Screen refresh rate”



## 10. 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 20" 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 `"/usr/sbin/m64config"`.
  2. To view current resolution:  
Type `"/usr/sbin/m64config – prconf"`.
  3. To change to 1024x768 @ 70MHz:  
Type `"/usr/sbin/m64config – res 1024x768x70 now"`.
  4. The screen will be refreshed.
  5. Then type `"pkill Xsun"`.  
And Type `"pkill Xsession"` to restart the Xsession.
- Under Common Desktop Environment (CDE).

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

- 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

## 11. Technical Specification

### LCD

Item	Description
LCD Screen Manufacturer	
LCD Origin	South Korea
Panel	20" TFT
Resolution	1,600 x 1,200
Brightness	300 cd/m <sup>2</sup>
Color	16.7M
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	100-240VAC, 50 to 60 Hz IEC-type cord
Max. Power Consumption	36 Watt.
Video Input	15-pin D-sub Connector

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\*All information change without prior notice