Model :

RP1200

User Manual

Introduction

Thank you for purchasing RP1200 Rackmount LCD Drawer. LCD Drawer is ideal for application where space is critical.

RP1200 is TFT LCD packed into a drawer with features such as monitor flip up design, adjustable mounting brackets, built in LCD OSD.

Features

- Unique mechanical design to maximize rack mountable space
- Unique monitor flip up design allows viewing through closed glass door of cabinet
- Adjustable mounting brackets for multiple depth cabinets between 650mm and 1000mm
- Lightweight aluminum construction – with a black anodize finish
- Side to side wide-angle viewing as CRT monitor
- Built in On Screen Display controlled by integral membrane switches
- Power saving feature for prolonging the life of LCD panel
- Standard D-sub 15-pin VGA input connector
- Front-access lock for security
- EMC shielding around the monitor housing to minimize interference
- All mounting hardware included

Packing Contents

RP1200 LCD Keyboard Drawer	1 PCS
User's manual	1 PCS
AC to DC Power Adapter w/power cord	1 PCS
Rack Mount Kit	1 SET
6 ft VGA cable	1 PCS

Before Unpacking

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

- The surface for placing and fixing the LCD Drawer should be stable and level or mounted into a suitable cabinet.
- Make sure the place has good ventilation, is out of direct sunlight, sway from sources of excessive dust, dirt, heat, water, moisture and vibration.
- Convenience for connecting the LCD Drawer to the related facilities should be well considers too.

Unpacking

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

Connection

The DC Power inlet and connection cables are located in the lower rear panel of the LCD Keyboard Drawer.

1. DC Power Inlet   :   plug in the AC to DC Power Adapter
2. VGA   port   :   Connect to VGA port in computer
3. PS/2 Keyboard cable   :   Connect to keyboard port in computer
4. PS/2 Mouse cable   :   Connect to mouse port in computer

Important Safeguards

Please read all of these instructions carefully before you use the device.

Save this manual for future reference.

- Unplug the LCD 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 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 Drawer is ranging between $-20^{o}C$ and $60^{o}C$. Permanent damage could occur if the LCD Drawer is stored outside the safe range.
- Unplug the LCD Drawer immediately and call a 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.

Rev. NOV-03

On Screen Display - OSD

● OSD is the convenient way for a user to adjust the screen performance to his satisfaction.

| Power | Menu/Selection |

| Left | Right | Exit* |

```
MAIN MENU
BRIGHT/CONTRAST
AUTO ADJUST
PHASE/CLOCK
H/V POSITION
MISC
RESET
```
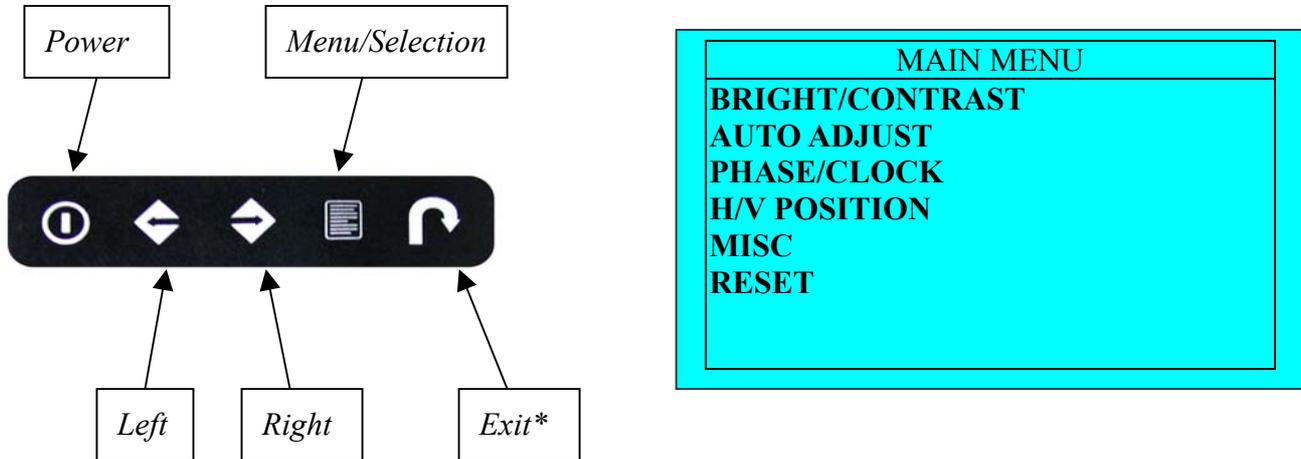
1. Entering the OSD Menu

2. Press the [icon] to display the OSD main menu.

3. Selecting icons for adjusting

4. Use [◄ ►] buttons to scroll through the icons within the main menu and other

    sub-menus. The currently selected icon will be highlighted.

5. A slider bar is displayed whenever a value is to be sent. Use [◄ ►] buttons to scroll

    along the bar.

6. Save the settings and Exit.

7. Selections / selected value is automatically saved once made.

* [icon] **button also acts as Auto Adjust button when no OSD menu is being displayed.**

Customizing the Settings

```
┌─────────────────────────────────────┐
│            MAIN MENU                 │
│ BRIGHT/CONTRAST                      │
│ AUTO ADJUST                          │
│ PHASE/CLOCK                          │
│ H/V POSITION                         │
│ MISC                                 │
│ RESET                                │
│                                      │
│                                      │
└─────────────────────────────────────┘
```
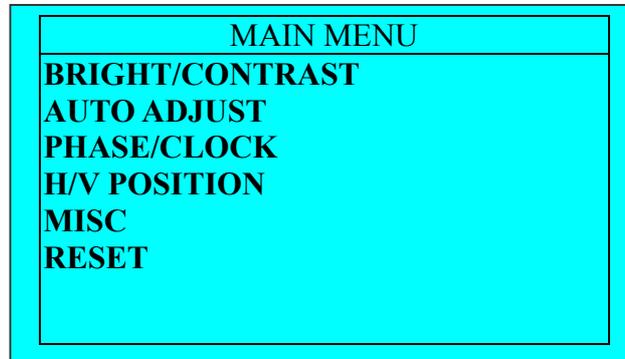
<u>Main Menu</u>

1. Bright / Contrast

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

2. Auto Adjust

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

3. Phase / Clock

- To enter into the phase & clock sub menu

4. H/V Position

- To enter into the Position sub-menu

5. MISC

- To enter into the MISC sub-menu

6. Reset

- Reset to the default factory setting
-

Sub-menu - Bright / Contrast

1. Brightness ☼

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

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

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

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

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

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

Sub-menu - MISC

1. Information

- To enter into the information screen

o The first header row shows the current resolution setup

o The second header row shows the horizontal frequency of the current input signal

o 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

- To enter into the Color sub-menu

a) 5500K

- To enter into the Color Temp Sub-menu at 5500K

b) 6500K

- To enter into the Color Temp Sub-menu at 6500K

c) 9500K

- To enter into the Color Temp Sub-menu at 9500K

d) User

- To perform optimization of color setting by manual

4. Language

- To select the language of OSD menu (8 Languages)

o English, Japanese (日本語) , Chinese (中文), Germany, Francais, Espanol, Italiano

Resolution Setting

| Arrange Icons By ▶ |
| Refresh |
| Paste |
| Paste Shortcut |
| New ▶ |
| **Properties** |

Step 2 – Choose "Properties"
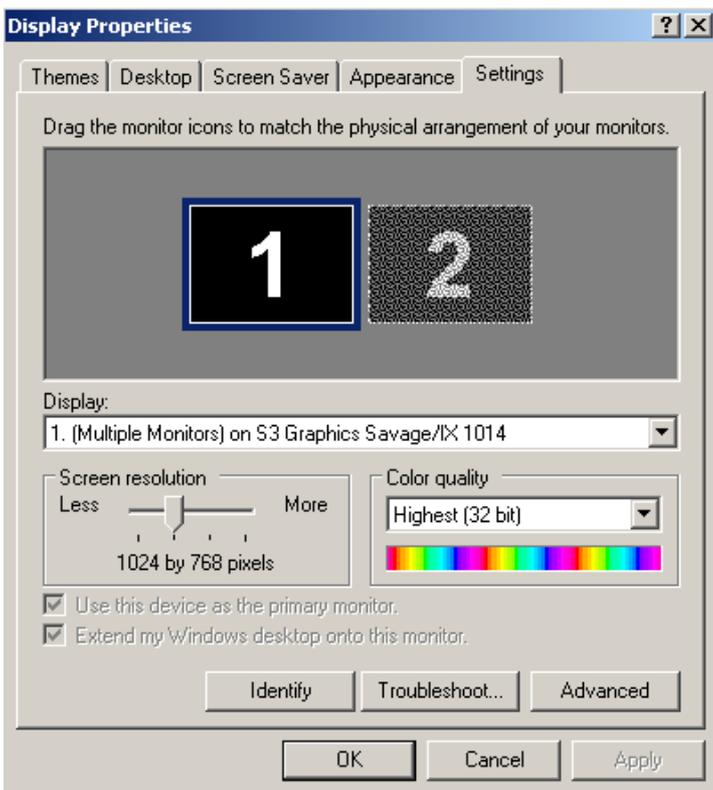
Step 3 – change the "Screen Resolution"
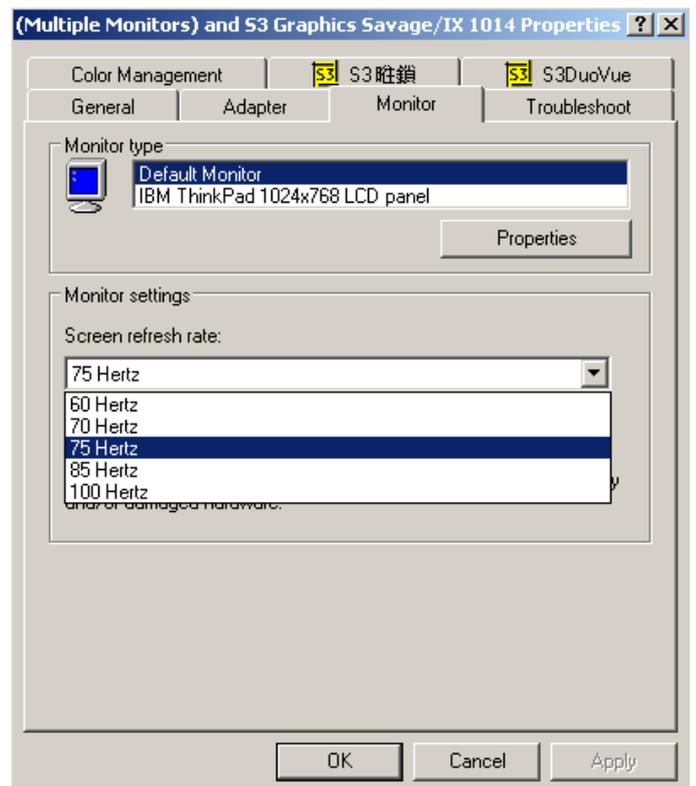
Step 4 – change the "Screen refresh rate"

FAQ

■ **My display doesn't work, even though the computer appears to work**

1. Make sure the power cable is securely plugged into the display
2. Make sure the display is turned on
3. Try turning the display off and then turning it on again
4. Make sure the display's power cord is plugged into a power outlet and into the AC power adapter. Check to see whether the outlet works by plugging another device into the outlet
5. Check the connection between the display and the computer, The cable connectors must be pushed in all the way

■ **The message "Check Cable" appears on my display**

1. This message appears when the video cable is not properly connected to the computer
2. Make sure the analog video cable is plugged into the Analog Video Input port on the back of the display
3. Make sure the other end of analog video cable is plugged into the PC's video port

■ **The message "No Sync" appears on my display**

1. This message appears when there is no video signal from the computer
   a. with cable already connected
2. Make sure that the computer's power is turn on
3. Make sure that your graphic card has its output already

■ **The message "Signal Out of Range" appears on my display**

1. This message appears when the input signal is beyond the display's capability
2. 13.3" 1024 x 768 at 70Hz (Max.)
3. 15.1" 1024 x 768 at 75Hz (Max.)
4. 17.1" 1280 x 1024 at 75Hz (Max.)

FAQ – Sun Server

- Sun Server are using resolution at 1152 x 900 x 76Hz
- Supported resolution mode
    - 640 x 480 x 70/75Hz
    - 800 x 600 x 70/75Hz
    - 1024 x 768 x 70/75Hz
    - 1280 x 1024 x 75Hz (17" LCD)
    - Note the Max. frequency of 13.3" is 70Hz
- You need to change the Sun Server resolution before you connect to LCD Display

- Please do the following procedure to change the resolution setting :

    1. as root:

    you may find the following comment "/user/sbin/m64config"

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

    to view current resolution

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

    to change to 1024x768 @ 70MHZ

    4. the screen will be rubbish

    5. Then type "pkill Xsun"

    6. And Type "pkill Xsession" to restart the Xsession

Remember this process need to RESTART the server

- Under Common Desktop Environment (CDE)
- To change the OpenBoot resolution, you can type the following commend 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

Remember this process need to RESTART the server

Technical Information

LCD	Size	20"
	Screen Type	TFT
	Display Area	
	Contrast Ratio	700 : 1
	Viewing Angle	178° (H) x 178° (V) Typ
	Resolution	1600 x 1200
	Pixel pitch	0.255mm (H) x 0.255m (W)
	Response Time	Tr=5ms, Tf=10ms Typ
	Brightness	280 cd/m2
	Panel Color	16.2M
	Back Light	4 CCFTs (Cold Cathode Fluorescent tube)
Video	Synchronization Range	Horizontal : 48.36-60 KHz
	Range	Vertical : 60-75 KHz
	Input Signal	Analog RGB 0.7Vp-p
Power Management	VESA DPMS	
Control	Power	Micro on/off switch on the backside
	OSD Control	Brightness, Contrast, Color, H position, V position, Clock, Phase, Auto config, Scaling, Input select, Clear EEPROM, Multi window, OSD adjust, Save
External Connection	Power Input	12V/5A DC adapter
	Video Input	15-pin D-Sub connector