1U Rack LCD Drawer LDS Series

User Guide Rev. 2.2

This specification is subject to change without notice. Manufacturer assumes no responsibility for any Error Contained herein.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Please read these instructions carefully before using the product and save for later reference.
- 2. Follow all warnings and instructions marked on the product.
- 3. Unplug this product from the wall outlet before cleaning. Clean the product with a damp soft cloth. Do not use liquid or aerosol cleaners as it may cause permanent damage to the screen.
- 4. Do not use this product near water.
- 5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
- 6. Slots and openings in the cabinet and the back or bottom are provided for ventilation; to ensure reliable operation of the product and to protect it from overheating, these openings must not be blocked or covered. The openings should never be placed near or over a radiator or heat register, or in a built-in installation unless proper ventilation is provided.
- 7. This product should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- 8. This product is equipped with a 3-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.

 Do not defeat the purpose of the grounding-type plug.
- 9. Do not allow anything to rest on the power cord. Do not locate this product where persons will walk on the cord.
- 10. If an extension cord is used with this product, make sure that the total of the ampere ratings on the products plugged into the extension cord does not exceed the extension cord ampere rating. Also make sure that the total of all products plugged into the wall outlet does not exceed 15 amps.
- 11. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
- 12. Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage points or other risks and will void the warranty. Refer all servicing to qualified service personnel.
- 13. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the product.
 - c. If the product has been exposed to rain or water.
 - d. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. If the product exhibits a distinct change in performance, indicating a need for service.

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1. Introduction

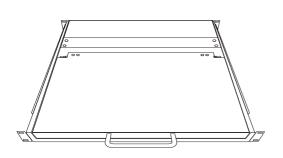
1.1. Overview

The LDS series (LDS210D/LDS310D/LDS410D) are a series of compact devices, built-in a 15", 17" or 19" LCD display, standard keyboard with numerical keypad, and heavy-duty touch pad to eliminate hardware redundancy and to increase cost efficiency. The 1U rack mount is designed to be an ideal solution for saving valuable rack mounting space, while possessing features such as monitor flip up design, adjustable mounting brackets, built-in LCD OSD and an optional centralized control of 8/16 PCs.

1.2. Major Features

Item	LDS210D	LDS310D	LDS410D	
TFT Display	15"	17"	19"	
OSD Function	Built in OSD Screer	n Adjustment Functio	n	
VGA	15-pin D-sub RGB	Analog Input Signal		
DVI(optional)	DVI-D	None	None	
Power Consumption(Watts)	33	38	41	
Power Supply	AC 100-240V Universal			
Keyboard and Touch Pad	88-key Keyboard and Integrated Touch Pad			
Numerical Key Pad	17-key numerical Key Pad			
Dimensions	1U compact design, 517mm (D) x484mm (W) x44mm (H)			
Operating Temperature	0° to 50° C Operating Temperature			
KVM Switch (optional)	OSD controlled 8/16 port KVM switch			

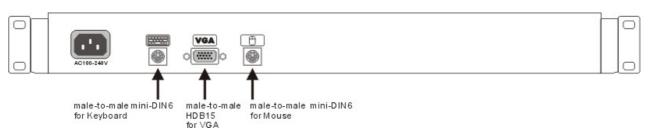
1.3. Outline Drawing



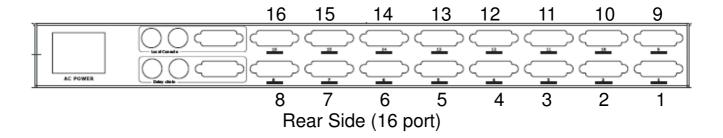


Front Side

Mounted on Rack-Mount Chassis



Rear Side (1 port)



1.4. Notice

- 1. Do not touch the LCD panel surface with sharp or hard objects.
- 2. Please ensure the LCD Drawer is securely in place. The surface for placing and fixing the LCD Drawer should be stable and level or mounted into a suitable cabinet.
- 3. Ensure there is enough ventilation for the LCD Drawer, as well as out of direct sunlight, away from sources of excessive dust, heat, water, moisture, and vibration.
- 4. Ensure the location of the LCD Drawer is convenient enough for it to connect to its related facilities.

1.5. Check List

Before using this rack monitor, please make sure that all the items listed below are present in your package

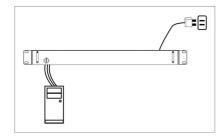
- Analog color LCD Drawer
- Accessory Box containing:
 - 1. KVM (Keyboard, Video, Mouse) expansion cable ×1
 - 2. Power cable ×1
 - 3. User guide ×1

If any items are missing or damaged, please contact your dealer immediately.

2. Configurations and Installation

2.1. Configurations

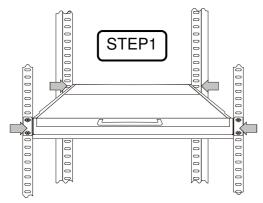
The LDS serials rack LCD drawer supports 1 computer. The configuration is as shown in following figure.



2.2. Installation

Step 1. Mount on Rack-Mount Chassis

Mount the Rack Drawer LCD on Rack-Mount Chassis with screws.



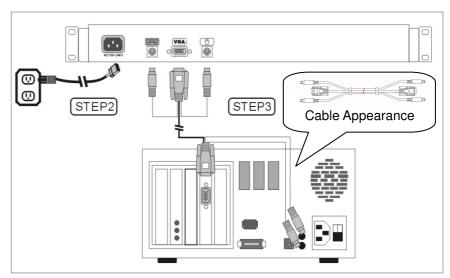
Step 2. Power Cable Connection

Connect the power cord to the rack LCD monitor and AC outlet.

Step 3. PS2 Mouse, Keyboard and VGA Cable Connection

LDS210/310/410 - 1P:

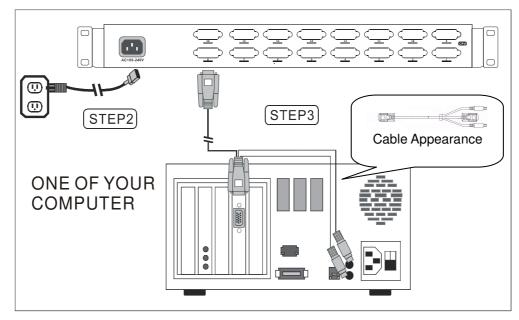
- ◆ Power down the computer which will be connected to your rack LCD monitor. Plug one end of the KVM expansion cable to the connectors at the rear of the PC system and the other end to the rack LCD monitor.
- ◆ Secure the connectors with the screws on the cable connector at both ends.



LDS210/310/410 - 8/16P:

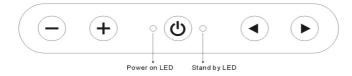
- ◆ Power down all computers which will be connected to your rack LCD monitor.
- ◆ Plug one end of the KVM expansion cable to the connectors at the rear of all the PC systems and the other end to the rack LCD monitor.
- ♦ Secure the connectors with the screws on the cable connector at both ends *Note:* The KVM expansion cable for the LDS210/310/410 -16P is different from the other KVM switch cables. The end of the KVM switch side is the 15-pin black connector for monitor, keyboard and mouse. The matching port of the KVM switch also uses 15 –pin black ports.

Note: All connectors are color coded; blue – video, green – mouse, purple – keyboard



LDS210/310/410-16P

3. LCD OSD Key Definition



1. MENU **₫/**▷

Use this key to select the function you would like to adjust.

2. ADJUST +/-

Use this key to adjust the selected function for optimal viewing.

3. POWER SWITCH (1)

Use the power switch to turn the power ON or OFF. We recommend turning your PC system power on first, then the LCD monitor.

4. POWER STAND-BY MODE LED

Indicates when the power is in the stand-by mode.

5. Power on LED

Indicates when the power is in the ON position.

3.1. The Control Key Description

(I) : Power on/off control.

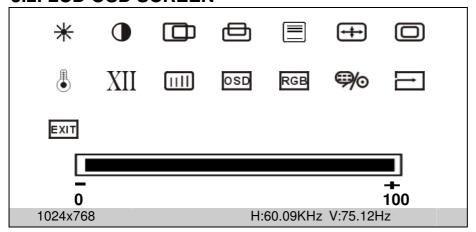
: Call menu / Shifting the selection left.

: Call menu / Shifting the selection right.

- : Decrease value.

+ : Increase value. / Automatic adjustment.

3.2. LCD OSD SCREEN



***** BRIGHTNESS

Press "+" to increase or "-" to decrease the brightness.

CONTRAST

Press "+" to increase or "-" to decrease the contrast.

☐ H-POSITION

Press "+" or "-" to move the image to the left or right on the screen.

→ V-POSITION

Press "+" or "-" to move the image up or down on the screen.

H-SCALING

Press "+" or "-" to increase or decrease the Horizontal screen size.

AUTO ADJUSTMENT

Press "+" or "-" to have the monitor logic choose the best settings for the current input signal.

WHITE BALANCE

Press "+" or "-" to enable auto adjust white balance function.

COLOR TEMPERATURE

Press "+" or "-" to set the color temperature

USER: Use this function to set a proper color temperature.

- 9300K:Push to set monitor for the CIE coordinate 9300 color temperature
- 6500K:Push to set monitor for the CIE coordinate 6500 color temperature
- 5500K:Push to set monitor for the CIE coordinate 5500 color temperature

XII GAMMA

Press "+" or "-" to adjust GAMMA Function.

PHASE

Press "+" or "-" button to adjust the Phase control. Phase adjustment may be required to optimize the display quality.

OSD OSD TRANSPARENT

Press "+" or "-" to adjust the OSD background color.

RGB ADC ADJUST

Press "+" or "-" to enter the ADC control manual for Brightness, Contrast, Red Color Gain, Green Color Gain and Blue Color Gain adjustment.

Ⅲ/○ CHANNEL

Press "+" or "-" to change the input channel

── RECALL

Press "+" or "-" to RECALL the factory default settings.

EXIT OSD EXIT

Press "+" or "-" to EXIT the OSD MENU.

Summary

S: Press "+" or "-" to adjust.
Press "+" or "-" to adjust.
Move the screen to the left or right side.
Move the screen up or down.
djust the Horizontal screen size.
the optimal screen settings.
NCE: White Balance value adjust.
PERATURE: Color Temperature settings.
nma value adjust.
st horizontal phase for optimal display quality.
NT: OSD Transparent adjustment.
DL: Color degree adjustment.
nange the input channel
ss "+" or "-" to reset the factory default settings.
rom the OSD function.

4. KVM (optional)

The 1U Rack LCD Drawer build-in KVM Switch enables a single keyboard, video monitor and mouse to control multiple computers at a time. This product supports one console and 8/16 computer ports. Product model number as follow table:

P/N	LCD Size	Computer port number
LDS210D-8P	15"	8
LDS310D-8P	17"	8
LDS410D-8P	19"	8
LDS210D-16P	15"	16
LDS310D-16P	17"	16
LDS410D-16P	19"	16

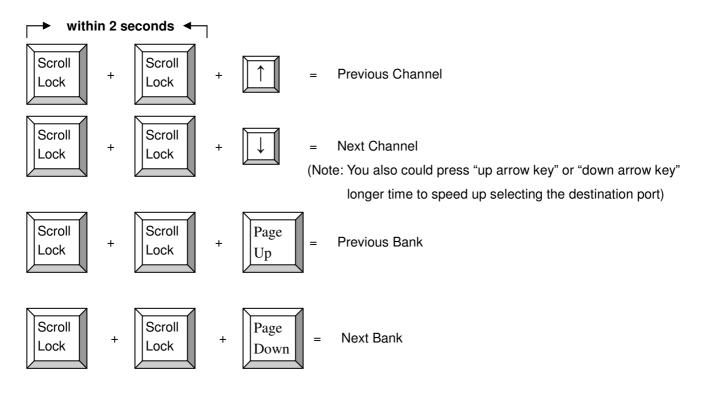
This series KVM switch has an On-screen Display (OSD) menu so that you can operate the system easily.

4.1. KVM OSD Control

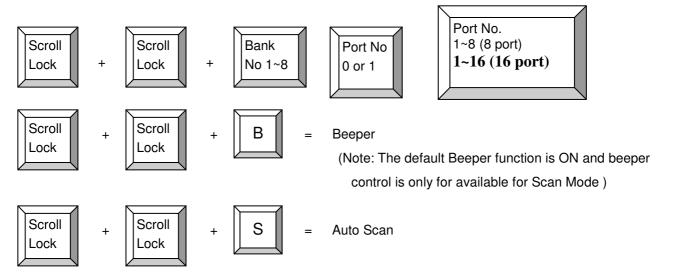
Keyboard Hot Key Commands:

You can command KVM switch by switching ports through simple key sequences. To send commands to KVM switch, the "SCROLL LOCK" key must be pressed twice within 2 seconds. You will hear a beep for confirmation and the keyboard is in hot key mode. If you have not pressed any key in hot key mode within 2 seconds (It means to key in any key follows up "Scroll Lock" "Scroll Lock" key), the keyboard will back to under Operation System control state.

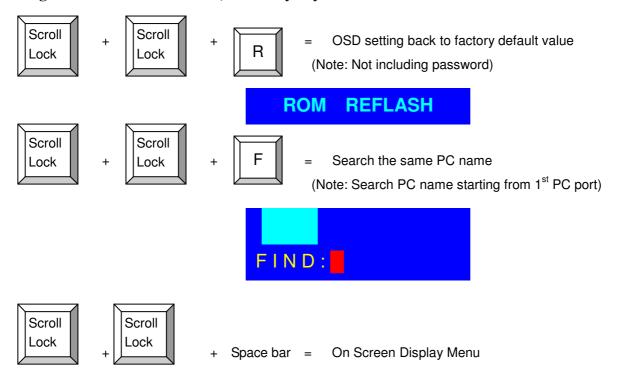
Below are the different hot key commands:



To select PC port:



To get out of Auto Scan Mode, Press any key or SPACE bar.



Example:

- A. To access a computer attached to Port 4 of the three Bank. You can press through hot key as below:
 - Scroll lock + Scroll lock + 3 + 04
- B. To access a computer attached from Bank 3 to Bank 4, You can press through hot key as below:
 - Scroll lock + Scroll lock + Page Down

Note:

Bank no. and Port no. selection must be made using the numeric keys on the keyboard. Numeric keys on the keypad are not available as a hot key command.

4.2 KVM ON SCREEN DISPLAY OPERATION

- 1. OSD menu can be popped up in powered on PC port or non-powered on PC port or empty PC port. The resolution of OSD menu is fixed to 1024X768 for non-powered on PC port or empty PC port.
- 2. When you pop up the OSD menu window go through the hot key, you will see the following small window on your monitor.

BANK : 1				
01 SYSTEM	01	02 SYSTEM	02 🖘	
03 ☆SYSTEM	03	04 ☆SYSTEM	04	
05 ☆SYSTEM	05	06 SYSTEM	06	
07 SYSTEM	07	08 ⇔SYSTEM	08	
09 SYSTEM	09	10 SYSTEM	10	
11 \$SYSTEM	11	12 SYSTEM	12	
13 SYSTEM	13	14 SYSTEM	14	
15 ☆SYSTEM	15	16 SYSTEM	16	
OSD: 1 0 SEC. CHANGE PASSWORD				
SCAN: 1 0 SEC. CONSOLE ON/OFF				
ESC : QUIT ENTER :COMPLETE				
TAB : NEXT INSERT :EDIT				
★ / ▼: PORT SELECT				
PgDn/PgUp: BANK SELECT				

- a. The 1ST line bar is Bank no.
- b. The 2nd block is your PC system name list. You will find the system number list from 01 to 04 (if the current box is 4 port) or from 01 to 8 (if the current box no. is 8 port)or from 01 to 16 (if the current box no. is 16 port). You can define your PC name in maximum 8 characters. The factory default of 16 port KVM switch PC name is from "SYSTEM 01", "SYSTEM 02",..., "SYSTEM 16" and 8 port KVM switch is from "SYSTEM 01", "SYSTEM 02",..., "SYSTEM 08". Besides, the sun symbol " near to the PC name represents the PC system is powered on.

To use up arrow key " ★ " or down arrow key " ▼ " to select port for destination PC name. After you have selected the PC port already, you can press the ENTER Key to switch the PC port you want immediately

To use "PgUp "key or "PgDn" key for selecting previous or next Bank no. (or Box No.)

BANK: 1

01 SYSTEM 01 02 \$\infty\$SYSTEM 02 \$\infty\$

To press "INS" key for editing PC name.

After finishing the edit, please press "Enter "key for saving information."

To use "Tab "key to select items like Bank, OSD, SCAN, CHANGE PASSWORD, CONSOLE ON/OFF, etc...

15☆SYSTEM 15 16 SYSTEM 16

OSD:10SEC. CHANGE PASSWORD

SCAN:10SEC. CONSOLE ON/OFF

ESC:QUIT ENTER:COMPLETE

TAB:NEXT INSERT:EDIT

a. The "OSD: 10 SEC" means that the PC system name exists 10 sec on your monitor. You can modify it from 05 sec to 99 sec. The factory default value is 10 sec.

- b. The "SCAN TIME" means that scan interval from one PC port to next PC port. The default SCAN time is 10 sec and the maximum scan time is 99 sec.
- c. The "CHANGE PASSWORD" is for user to avoid all PC systems to be intruded by the other person. The default password is 8 digits "00000000".

ENTER PASSWORD: ENTER:

There is an enter password window showed out when you select this item and then press the Enter. The maximum password is eight digits. After you key in the password already and press the Enter key, there is another window for confirming your typed password.

ENTER NEW PASSWORD:

ESC: QUIT ENTER:

RETYPE NEW PASSWORD:

ESC: QUIT ENTER:

You need to retype the password again for rechecking your previous key-in password is matched or not.

NEW PASSWORD COMPLETE

ESC: QUIT ENTER:

d. The "CONSOLE ON/OFF" means to manage the console of KVM switch. If you select "CONSOLE ON", it means that any user can use the console. If you select "CONSOLE OFF" (factory default OFF state), it means that any user will not be allowed to use the

console unless you enter the password. When you enter the password already and pass the KVM switch authentication, the CONSOLE will be set to ON. After you finish using KVM switch, please don't forget to set up CONSOLE ON state to OFF state. Besides, if current CONSOLE is ON state and you reset KVM switch, the CONSOLE will be set up ON state back to OFF state.

e. When you finish the set up of PC name and get out of OSD setting mode, you will find the PC name showed at the up-left corner of monitor. Now, you can use ESC key to clear the message right away if you don't need it.

102 **SYSTEM** 02

f. If you want OSD returning back to factory default value, you can execute "SCROLL LOCK", "SCROLL LOCK", "R" keys in order. The bank seven segment LED on the front panel will be flashed during the refresh process.

ROM REFLASH

When the OSD value back to default setting, the bank seven segment LED on the front panel will stop flashing

5. Specifications

Item	LDS210D	LDS310D	LDS410D		
Display Area(mm)	304.1(H) x 228.1(V)	337.9(H) x 270.3(V)	376.3(H) x 301.1(V)		
	(15-inch diagonal)	(17-inch diagonal)	(19-inch diagonal)		
Pixel Pitch	0.297(H) x 0.297(V)				
Number of Pixels	1024(H) x 768(V)	1280(H) x 1024(V)	1280(H) x 1024(V)		
Contrast Ratio	350:1	800:1	800:1		
Display Color	16.2M colors	16.7M colors	16.7M colors		
Brightness (CD/m^2)	250	300	300		
Backlight Unit	2 replaceable CCFLs edge-light (top/bottom)	4 replaceable CCFLs ed	dge-light (top/bottom)		
Viewing Angle	-65º~65º(H), -50º~55º(V)(Typ.)	-70º~70º(H), -60º~60º(V) (Typ.)	-85º~85º(H), -85º~85º(V) (Typ.)		
I/O	Power: 12V DC Adapter Keyboard:PS/2 Mouse:PS/2 VGA:15-pin D-sub				
Keyboard	88-key keyboard and int	tegrated Touch Pad			
and Key pad	17-key numerical key pa	ad			
Power	33 Watts	38 Watts	41 Watts		
Consumption					
Power Supply	ower Supply AC 100-240V Universal				
On-Screen Display Contrast, Brightness, H/V Position, H/V Size, H-scaling, Auto-adjust, Color Temp.(9300, 6500, User), Red-Gain, Blue-Gain, Green-Gain, Gamma, Recall, Phase, OSD & Exit					
Hot Key Control	OSD Hot Key				
Environmental	Operating temperature:0°C~ 50°C (32 F~ 122 F)				
consideration	Storage temperature:-20°C~ 60°C(-4 F~ 140 F)				
Humidity	10~85% in operating; 10-90% in storage				

6. Cleaning the Rack Drawer Monitor

- Make sure the rack drawer monitor is turned off.
- Never spray or pour any liquid directly onto the screen or case.
- Wipe the screen with a clean, soft, lint-free cloth. This removes dust and other particles.
- The display area is highly prone to scratching. Do not use ketene type material (ex. Acetone), Ethyl alcohol, toluene, ethyl acid or Methyl chloride to clear the panel. It might permanently damage the panel.
- If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft, lint-free cloth, and wipe the screen
- Don't let water or oil penetrate the monitor. If the droplets are kept for a long time,
 Staining and discoloration may occur.

7. Disclaimer

We do not recommend the use of any ammonia or alcohol-based cleaners on the monitor screen or case. Some chemical cleaners have been reported to damage the screen and/or case of the rack LCD monitor. Seller will not be liable for damage resulting from use of any ammonia or alcohol-based cleaner.

8. Troubleshooting:

Ensure that all cables are well seated. Check that keyboard/mouse cables are not swapped. If your monitor fails to operate correctly, consult the following chart for possible solution before calling for repairs:

computer. • Make sure the signal timings of the computer system a within the specification of the monitor. • If your computer was working with a CRT monitor, you should check the current signal timing and turn off you computer before you connect the VGA Cable to the monitor. 3. The position of the screen • Adjust the H-position, and V-position, or Perform the Automatical Computer Systems and Sys	Condition	Check Point				
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		= ==				
is not in the center adjustment.	3. The position of the screen	Adjust the H-position, and V-position, or Perform the Auto				
l e e e e e e e e e e e e e e e e e e e	is not in the center	adjustment.				

4. The screen is too bright (too dark).	 Check if the brightness or contrast control is at the appropriate position, not at the Maximum (Minimum).
5. The screen is shaking or waving	 Press "+" (the Auto - adjustment control) to adjust. Moving all of objects which emit a magnetic field such as motor or transformer, away from the monitor. Check if the specific voltage is applied.
	 Check if the signal timing of the computer system is within the specification of monitor.
6. Mouse or Keyboard is not functioning (for LDS 210/310/410-8/16P)	 Verify that the mouse or keyboard is correctly plugged in to the KVM switch.
(101 LD3 210/310/410-0/10F)	 Verify that the cable is correctly connected between the computer and the KVM switch.
	Restart the computers.
	 Verify that the keyboard or mouse works when connected directly to the computer.
	Note: The mouse will be inactive when OSD menu is active.
7. Hotkey selection is not functioning	 The Hotkey or Push button selection is inactive when the password is active.

If you are unable to correct the fault by using this chart, stop using your monitor and contact your distributor or dealer for further assistance.

9. Appendix:

9.1 Supporting Resolution Modes:

LDS210D(15"):

Mode	Resolution	H-Freq. (KHz)	V-Freq. (KHz)
Mode 1	640×350	31.5	70
Mode 2	640×400	31.5	70
Mode 3	640×480	31.5	60
Mode 4	640×480	37.9	72
Mode 5	640×480	37.5	75
Mode 6	720×400	31.5	70
Mode 7	800×600	35.1	56
Mode 8	800×600	37.9	60
Mode 9	800×600	48.1	72
Mode 10	800×600	46.9	75
Mode 11	1024×768	48.4	60
Mode 12	1024×768	56.5	70
Mode 13	1024×768	60.0	75

LDS310D(17")/LDS410D(19"):

Mode	Resolution	H-Freq.(KHz)	V-Freq.(KHz)
Mode 1	640×350	31.5	70
Mode 2	640×400	31.5	70
Mode 3	640×480	31.5	60
Mode 4	640×480	37.9	72
Mode 5	640×480	37.5	75
Mode 6	720×400	31.47	70
Mode 7	800×600	35.1	56
Mode 8	800×600	37.9	60
Mode 9	800×600	48.1	72
Mode 10	800×600	46.9	75
Mode 11	1024×768	48.4	60
Mode 12	1024×768	56.5	70
Mode 13	1024×768	60.0	75
Mode 14	1280×1024	64.0	60
Mode 15	1280×1024	80.0	75

9.2. Limited Warranty

In no event shall the direct vender's liability for direct or indirect, special, incidental or consequential damages, loss of profit, loss of business, or financial loss which may be caused by the use of the product exceeds the price paid for the product.

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