

Diamond View ***DV150***

LCD Color Monitor

15.1" (38.35cm) LCD Panel Size

User's Manual

Copyright Notice

Copyright 1999, Mitsubishi Electric Australia Pty. Ltd. All rights reserved. No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual or otherwise, without the prior written permission.

Disclaimer

Mitsubishi Electric Australia Pty. Ltd. makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties, merchantability or fitness for any particular purpose. Further, Mitsubishi Electric Australia reserves the right to revise this publication and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

Fill in here!!

For future reference, write the following information about your monitor in the space below. The serial number is on the back of the product or on the bottom of its stand.

Monitor Information

Product Name: DV 150

Serial Number: _____

Date of
Purchase: _____

Dealer Information

Dealer: _____

Telephone
Number: _____

Address: _____

Important Safety Instructions

1. The AC adaptor supplied with the DV150 monitor isolates it from the AC mains power supply.
2. Unplug the AC adaptor from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a soft cloth to clean the monitor housing and a tape to stick dust and fingerprints on the screen panel.
3. Slots and openings on the back or top of the cabinet are provided for ventilation. They must not be blocked or covered. This product should never be placed near or over a radiator or other heat source, or in a built-in installation unless proper ventilation is provided.
4. The DV150 monitor should only be operated with the AC adaptor model LE-9702B, manufactured by Lien Electronics. If you are not sure of the type of mains power available, consult your dealer or local Power Company.
5. Never push objects of any kind, or spill liquid of any kind into this product.
6. Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other risks.
7. If any abnormal operation or accident (such as dropping the unit) occurs, disconnect the monitor from the wall power outlet and contact qualified service personnel.

Table of Contents

Copyright Notice.....	ii
Disclaimer.....	ii
Important Safety Instructions.....	iv
Table of Contents.....	v
Introduction.....	1
Unpacking the Package.....	1
Features.....	2
Power Management.....	3
Getting Started.....	4
Installing the Monitor.....	4
Adjusting the Monitor.....	5
A Look at the Control Panel.....	5
Adjusting the Monitor.....	5
OSD(On-Screen Display) Operation Procedure.....	6
Contrast hot-key mode.....	6
Brightness hot-key mode.....	6
Main menu mode.....	6
Making Adjustments.....	7
Control Functions Available in Main Menu.....	7
Auto : automatically adjusts Color Temperature, Phase, V-Position, H-Position and Pixel Clock while the screen size is full.....	12
When Your Monitor Must Be Adjusted.....	13
How to Adjust Your Monitor using the Diskette.	13
Supported Timings.....	14
Troubleshooting.....	16
Maintenance.....	18
Need More Help?.....	18
Specifications.....	19
Contacting Mitsubishi Electric.....	20
Australia:.....	20

Introduction

1

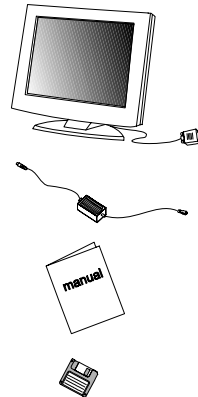


This chapter helps you check your pack and introduces the advantages of your new LCD Monitor.

Unpacking the Package

Check following items. If they are missing or damaged, consult your place of purchase immediately.

- ✓ LCD monitor with attached signal cable
- ✓ Power cord & adapter
- ✓ User's manual
- ✓ Diskette



Locate the model name and the serial number label on the back of your monitor or underneath its stand. Write down the details of your monitor and dealer in the space on page (ii) of this manual for future reference.

Features

Your Diamond View DV150 has the following features:

✓ **Power Saving Function**

The power management complies with VESA DPMS standard. When the system is idle (in monitor off mode), the monitor automatically cuts its power consumption to less than 5W.

✓ **Plug'n Play Compatibility**

It is compatible with the Plug'n Play features of Windows® 95 and Windows® 98.

✓ **Space Saving**

Compared with CRT monitors, the depth of your LCD monitor footprint is only 170mm, reducing the required desktop space by at least 50%.

✓ **Light Weight**

Your monitor weights only 5.8Kg, almost 70% lighter than traditional 15" CRT monitors.

✓ **Lower Power Consumption**

Compared to the maximum 100W power consumption of 17" CRT monitors, this monitor consumes only 36W in operation (maximum).

✓ **Intelligent Screen Technology**

The On-Screen Display (OSD) allows you to adjust all settings simply with on-screen menus.

✓ **High Quality Ratiometric Expansion**

With any resolution within the monitor's specified range, your Diamond View DV150 monitor can expand the image to full screen.

✓ **True Colour Display**

With dithering support, Diamond View DV150 monitor enhances the visual effect and offers you better image quality.

✓ **Auto Function**

With auto adjustment function, the Auto key can automatically adjust Color temperature, H-position, V-position, Pixel clock and Phase for you.

Power Management

The monitor's power management complies with VESA DPMS standard and can lower the power consumption of the monitor while it is not in use. To release the monitor from the power-saving condition, press any key on the computer's keyboard. The power consumption at NORMAL and OFF modes is as follows.

Mode	Power Consumption	Horizontal Sync.	Vertical Sync.	Power LED
Normal	< 36 W	ON	ON	Green
Off	< 5 W	OFF	OFF	Amber

Getting Started

2

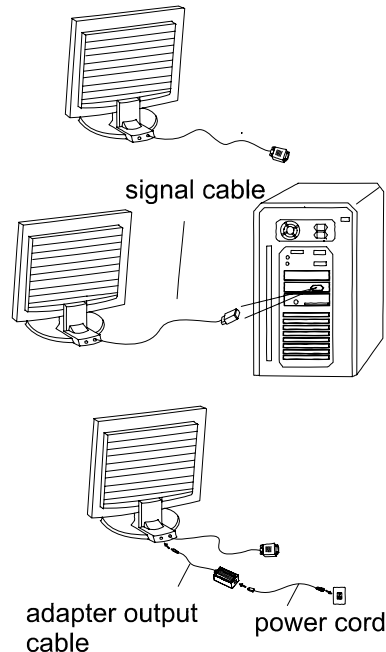


This chapter helps you install your monitor.

Installing the Monitor

This monitor is equipped with an auto-sensing AC adaptor power supply for voltages of 100~240V AC, 50~60Hz.

1. Make sure that the computer system is turned off.
2. Plug the signal cable into the signal connector at the rear of PC.
3. Plug adapter output cable to the jack at the rear of LCD monitor and the power cord to the adapter.
4. Connect the power cord to power source.
5. Turn on the computer and the monitor.



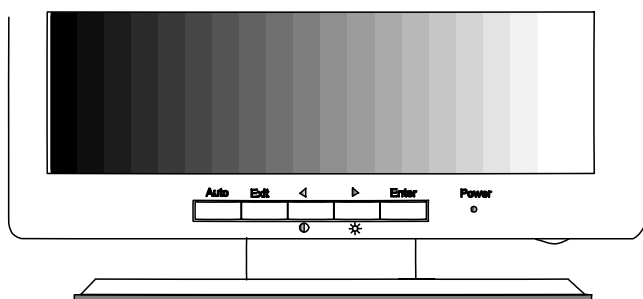
Adjusting the Monitor

3



This chapter helps you adjust all the settings to perfection.

A Look at the Control Panel



Adjusting the Monitor

There are 5 keys for user's control. The function of each is as follows:

- **Enter** key : enters sub-menus or selects items
- **Exit** key : goes back to main menus (auto save), or leaves OSD.
- ◀ / ◐ key : adjusts the parameter setting to a lower value or adjusts contrast setting.
- ▶ / ☀ key : adjusts the parameter setting to a higher value or adjusts brightness setting.
- **Auto** : Automatically adjusts Colour Temperature, V-Position, Phase, H-Position and Pixel Clock.

OSD(On-Screen Display) Operation Procedure

Contrast hot-key mode

1. Press ◀ / ☾ to enter contrast hot-key mode.
2. Press ◀ or ▶ to do the adjustments.



Brightness hot-key mode

1. Press ▶ / ☀ to enter brightness hot-key mode.
2. Press ◀ or ▶ to do the adjustments.



Main menu mode

Grouped by functions, the OSD offers 5 groups of functions in its Main Menu for making adjustments: Luminance, Geometry, Color adjustment, Recall and Miscellaneous. The following describes the contents of each function and how you can make the adjustments.

Making Adjustments

1. Press **Enter** or **Exit** to enter Main menu.
2. Press ◀ or ▶ to locate the item you desire to change, then press **Enter** to go into the sub-menu.
3. Press ◀ or ▶ to locate the function item, then press **Enter** and ◀ or ▶ to make the adjustment.
4. Press **Exit** to save the settings and go back to main menu.

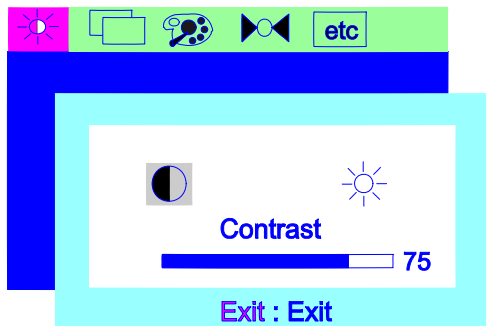
Control Functions Available in Main Menu

1. ☀ Luminance

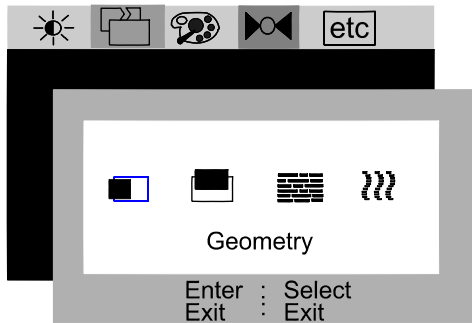
Press **Enter** to go into sub-menu, and press ◀ or ▶ to locate the function item. There are two items:

◐ **Contrast** : adjust the difference between the light and dark areas.


☀ **Brightness** : adjust the brightness of the display.





2. Geometry



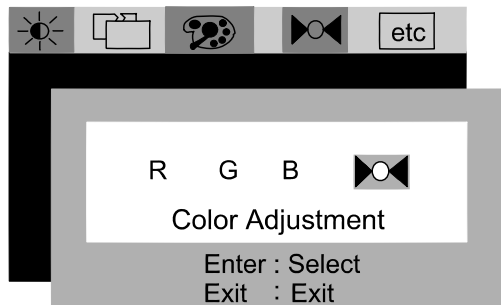
 **Hor. (horizontal) Position:** adjusts the horizontal position of the display.

 **Ver. (vertical) Position:** adjusts the vertical position of the display.

 **Phase:** adjusts the phase of pixel clock. It can improve the focus and stability of your screen as well.

 **Pixel Clock:** adjusts the frequency of the pixel. With this function, you can enlarge or reduce the width of your screen.

3. Color Adjustment



Color User Mode: Press **Enter** to select the items. Then press ◀ or ▶ to do adjustment. If you want to recall preset color, please locate ⏪ to recall the preset color settings.

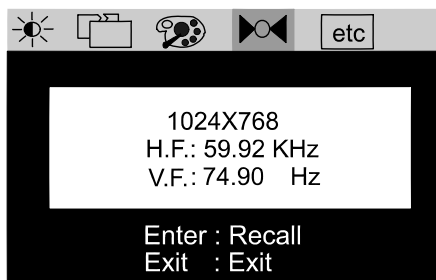
R Red adjustment

G Green adjustment

B Blue adjustment

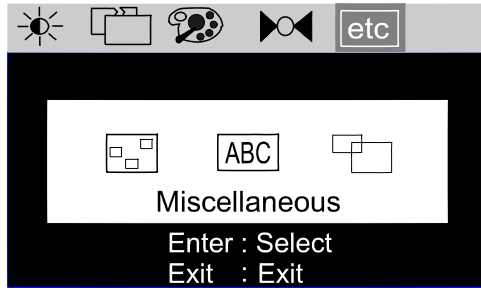
⏪ **Recall:** recalls the preset color settings.

4. ⏪ Recall



Locate ⏪ and press **Enter**, you can recall the preset settings. This page is also a "status display" field that shows current horizontal and vertical frequency status. If you set a timing that is not listed on the preset timing table, "Non Preset Mode" will be shown on this page.

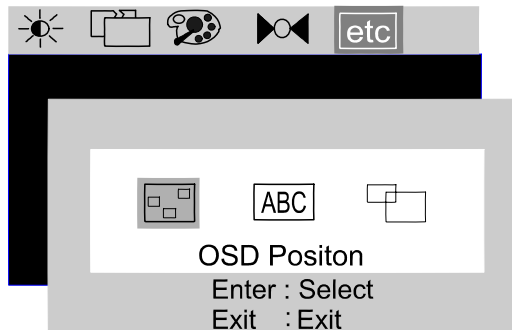
5. Miscellaneous



OSD Position

Hor. (horizontal) Position: adjusts OSD horizontal position.

Ver. (vertical) Position: adjusts OSD vertical position.



Language Select

De: Deutsche

En: English

Es: Español

Fr: Français

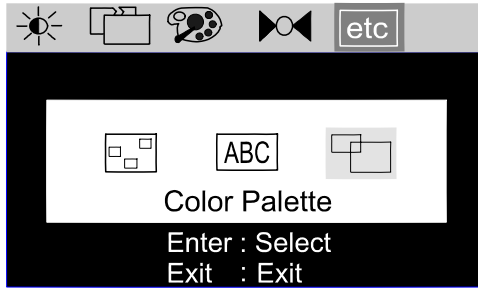
It: Italiano

Ja: Japanese





Color Palette

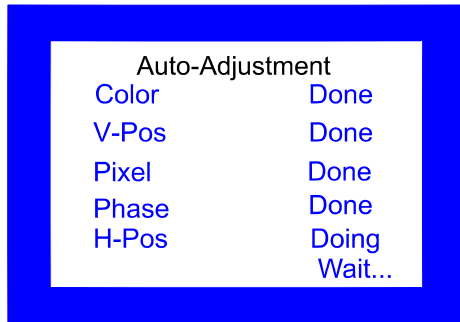


256K: supports up to 262,144 colors.



16M: supports up to 16,777,216 colors with dithering technology.

Auto : automatically adjusts Color Temperature, Phase, V-Position, H-Position and Pixel Clock while the screen size is full.



To Automatically adjust the image, you may use the program on the accompanying diskette (Auto.exe) which contains a test pattern that is used to optimise your image settings. Please run the file and then press Auto key, the screen will be automatically adjusted to optimum image. This pattern is compatible with Windows 95 and Windows 98.

☞ If “Non Preset Mode” appears on the OSD, it means that the graphics card has set an unacceptable timing. Please refer to the table of supported timings on the next page and set the graphics card to use a preset timing.

When Your Monitor Must Be Adjusted

- If the resolution or refresh rate is changed
- If the graphic card is changed
- If the PC is changed
- After using the “Recall” function

How to Adjust Your Monitor using the Diskette

Using the test pattern on the diskette, you can easily optimize your screen performance.

Steps:

1. Insert the diskette and display the test pattern by running A:\auto.exe


2. Press the **Auto** key for automatic adjustment.


To manually fine tune the settings:

3. Press **Enter** to open the OSD menu.

4. Using the pattern, adjust the OSD controls to reach your desired brightness, contrast, etc.

5. Select **Geometry**  icon.

6. Select **Pixel Clock**  function to adjust the value to minimize vertical bars.

7. Select **Phase**  function to adjust the value to minimize horizontal bars.

8. Select **Horizontal Position**  and **Vertical Position**  to adjust screen position.

9. Press **Exit** button to save the changes.

10. Press the left mouse button to exit the program and then click “Exit”.

Supported Timings

Input display data					Multi-scan operation
Resolution	H. Frequency (kHz)	V. Frequency (Hz)	Dot Clock Frequency (MHz)	Remark	Actual display resolution
640 x 350	31.47 (P)	70.08 (N)	25.17	DOS	1024x675
*720 x 400	31.47 (N)	70.08 (P)	28.32	DOS	full screen 1024 x 768
*640 x 480	35.00 (N)	67.00 (N)	30.24	Macintosh	
*640 x 480	31.47 (N)	60.00 (N)	25.18	DOS	
640 x 480	37.86 (N)	72.80 (N)	31.5	VESA	
*640 x 480	37.50 (N)	75.00 (N)	31.5	VESA	
800 x 600	35.16 (P)	56.25 (P)	36.00	VESA	
800 x 600	37.88 (P)	60.32 (P)	40.00	VESA	
800 x 600	48.08 (P)	72.19 (P)	50.00	VESA	
*800 x 600	46.87 (P)	75.00 (P)	49.5	VESA	
*832 x 624	49.72 (N)	74.55 (N)	57.29	Macintosh	
*1024 x 768	48.36 (N)	60.00 (N)	65.00	VESA	
*1024 x 768	56.48 (N)	70.10 (N)	75.00	VESA	
*1024 x 768	60.02 (P)	75.00 (P)	78.75	VESA	
*1024 x 768	60.24 (N)	74.93 (N)	80.00	Macintosh	

Resolutions marked with * are in the factory preset timings.

☞ *Timings not shown in the above table may not be supported. We recommend that you set the graphics card to use the factory preset timings to have optimum screen image.*

☞ *There are 15 modes that are compatible with VESA standards, Windows 95, 98 and NT, and the Apple Macintosh.*

- ☞ *In some rare cases, the screen may show a small amount of noise. This may be caused by non-standard signal frequencies from the VGA card. It is not a defect. You can improve it by automatic adjustment or by manually adjusting the Clock Phase and Pixel Frequency in the image menu.*
- ☞ *When shutting down the computer system or turning off the monitor, some interference lines may appear on your screen. This is a normal situation.*
- ☞ *To extend the product life, we suggest you use the power saving function of your computer system.*

Troubleshooting and Useful Hints

4



This chapter offers you some common solutions should you encounter problems.

Troubleshooting

Make sure that your monitor is properly installed if you have encountered any trouble using this product (For hardware installation, see **Chapter 2, Getting Started**). If the problems persist, check this chapter for possible solutions.

- ✓ If there is no picture on the screen, check:
 - Power saving mode. Press any key and move the mouse to reactivate the computer.
 - Signal cable connector pins. If there are bent or missing pins, consult your place of purchase.
- ✓ If the picture is unstable, check:
 - Signal cable connector pins. If there are bent or missing pins, consult your place of purchase.
 - Graphics card. See if the settings are made properly.
 - Scanning frequency. Change the settings of your graphics card to one of the monitor's preset signals.
 - Monitor adjustments. See **Chapter 3, Adjusting the Monitor**, particularly the automatic adjustment procedure.

- ✓ Characters look too dark or too light.
 - ❑ Adjust related settings. See **Chapter 3, Adjusting the Monitor.**

Maintenance

- ✘ Do not expose the monitor to direct sunlight or heat.
- ✘ Do not spill liquid on the monitor or AC adaptor.
- ✘ Do not attempt to open the monitor. You may be hurt by electric shock. For service, call your place of purchase.
- ✘ Disconnect the monitor's AC adaptor from the wall socket before cleaning.
- ✘ Do not use harsh chemicals or strong cleaning solvents to clean the monitor screen. Wipe it with clean, soft cloth with mild cleaning solution.
- ✘ Do not place anything on your monitor or AC adaptor. Bad ventilation may elevate temperature in the unit and cause damage to it.

Need More Help?

If your problems remain after checking this manual, please contact your place of purchase. Driver files and product information is available from Mitsubishi Electric Australia's web site at

<http://www.mitsubishi-electric.com.au>

Specifications

5



This chapter offers you basic information about your Monitor.

LCD Panel	15.1", active matrix TFT
Power Supply (Universal)	
Input voltage	90~264 V AC, 47~63 Hz
Power consumption	36W max.
Max. Resolution	1024 x 768 pixels
Video Input	RGB input
User's Control	Power ON/OFF, OSD
Regulatory Compliance	C-Tick (AS3548), AS3260, CE, TCO'99(Optional)
Display Area	307.2mm (H) X 230.4mm (V)
Ambient Temperature	
Operating	+5°C ~ +40°C / +41°F ~ +104°F
Storage	-20°C ~ +60°C / -4°F ~ +140°F
Humidity	
Operating	20% ~ 85%
Storage	10% ~ 85%
Dimensions (W x H x D)	390 mm x 361 mm x 170 mm
Weight (net)	5.8 Kg

6

Contacting Mitsubishi Electric

Australia:

Address: Mitsubishi Electric Australia Pty. Ltd.
348 Victoria Road,
Rydalmere, NSW, 2116

Telephone: (02) 9684-7777

Fax: (02) 9898-0484

Web site: <http://www.mitsubishi-electric.com.au>

New Zealand:

Contact information for MELCO New Zealand is:

Address: MELCO New Zealand Ltd.
1 Parliament Street,
Lower Hutt

Telephone: (04) 560-9100

Fax: (04) 560-9140

Web site: <http://www.melco.co.nz>

