



Diamond Digital

Diamond Digital

DVI70J/JB

Colour TFT LCD Monitor

17" (43 cm) LCD Panel Size

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Reference Information

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

Monitor Information

Product Name: DV170J/JB

Serial Number: _____

Date of Purchase: _____

Dealer Information

Dealer: _____

Telephone
Number: _____

Address: _____

Important Safety Instructions

Please read the following safety instructions before installing or cleaning your Diamond Digital monitor:

1. Unplug the monitor's power cable from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a soft cloth to clean the monitor housing.
2. 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 used in a built-in installation unless proper ventilation is provided.
3. Never push objects of any kind, or spill liquid of any kind into this product.
4. Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards.
5. Do not apply pressure to the LCD screen. Excess pressure can damage the LCD panel.
6. 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.
7. Turn the audio volume control of the built-in speakers to minimum (0) and turn the monitor off before connecting or disconnecting any audio cable.

Features

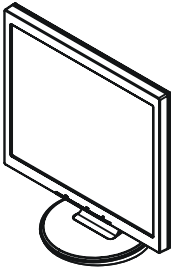
Your DV170J/JB Monitor features:

- ◆ **XGA (1280 x 1024 pixel) Resolution LCD Panel**
- ◆ **High Brightness Level – 270 cd/m² (typical)**
- ◆ **High Contrast Ratio – 450:1 (typical)**
- ◆ **Response Rate – 12 ms (Typical) (Tr+Tf)**
- ◆ **True Colour Display**
With 16.2M (6bit + FRC) colour, the DV170J/JB monitor offers you better image quality.
- ◆ **High Quality Ratiometric Expansion**
With any resolution within the monitor's specified range, your Diamond Digital DV170J monitor can expand the image to full screen.
- ◆ **Plug and Play Compatibility with Microsoft® Windows® 95, 98, 2000, Me and XP**
- ◆ **Space Saving - only 190 mm deep**
- ◆ **Light Weight - only 5 kg**
- ◆ **Lower Power Consumption**
40W maximum during operation with audio.
- ◆ **Power Saving**
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 3 W.
- ◆ **On Screen Display**
Allows you to adjust all settings simply using on-screen menus.
- ◆ **Support Kensington security locks**

3 Unpacking the Monitor

Please check that the following items are included with your monitor. If they are missing or damaged, please contact your place of purchase immediately.

LCD monitor



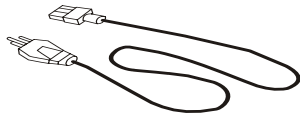
User's Manual



VGA Cable



Power Cord



Locate the model name and the serial number label on the back of your monitor, and write the details of the monitor and your place of purchase in the space on page (ii) of this manual for future reference.

4 Hardware Installation

Connecting the Monitor Base

Remove the base from the packing box and place it on the desk. Next, remove the LCD display and carefully seat it on the base. (See fig.1-1)

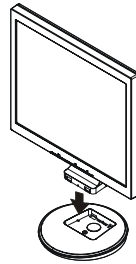


Figure 1-1

Viewing Angle Adjustment

The LCD Monitor is designed to allow users to have a comfortable viewing angle. The viewing angle can be adjusted from -5° to $+30^{\circ}$. (See fig. 1-2)

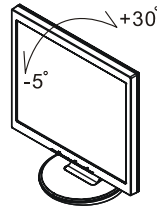


Figure 1-2

Connecting the Display to your Computer

Using the VGA cable

1. Power off your computer.
2. Connect one end of the VGA signal cable to the LCD Monitor's VGA port. (See Fig 1-3)
3. Connect the other end of the signal cable to the VGA port on your PC.
4. Make sure connections are secure.

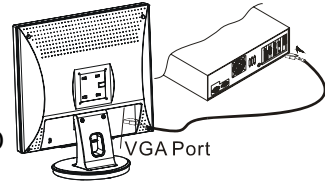


Figure 1-3

Connecting the AC Power

1. Connect the power cord to the monitor. (See Fig. 1-4)
2. Connect the power cord to an AC power source.

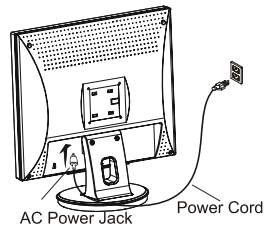


Figure 1-4

Instructions for VESA Mounting

To detach the LCD Monitor from its stand, unscrew the two screws ❶ for the monitor stand and pull it downwards to remove, then unscrew the four screws ❷ for the monitor stand bracket and pull this down to remove.

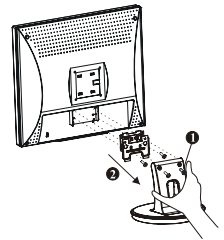


Figure 1-6

Interface for Arm Applications

Before installing the mounting device, please refer to Fig.1-7.

The rear of this LCD display has four integrated 4 mm, 0.7 pitch threaded nuts, as well as four 5mm access holes in the plastic covering as illustrated in Figure 1-2. (These specifications meet the VESA Flat Panel Monitor Physical Mounting Interface Standard).

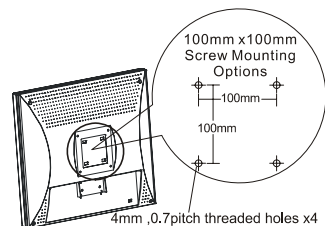


Figure 1-7

5 Windows driver Installation

The DV170J/JB is fully Windows Plug and Play compatible so no specific Windows drivers are required for installation.

Windows 98, ME, and 2000

The first time you start Windows after connecting your new monitor, the system will detect the monitor and automatically start the **Add New Hardware** wizard. Just follow the prompts to load the native Plug and Play drivers.

Windows XP

The first time you start Windows after connecting your new monitor Windows XP will automatically load the native Plug and Play drivers.

Setting the Display Resolution

Choosing The Best Resolution

All Liquid Crystal Displays (LCDs) have a fixed resolution that is the same as the maximum resolution that may be displayed on the LCD. In the case of the DV170J/JB the LCD resolution is 1280 x 1024 pixels. This is also known as the “native” resolution of the monitor. Lower resolutions can be displayed at full screen through an interpolation circuit. Because the lower resolution must be expanded, the quality of the displayed image is not as good as that available when the native resolution is displayed. For optimal performance from any LCD monitor, you must use the monitor’s native resolution.

If you are using Windows 95, 98, 2000, Me, XP or NT 4.0, you can change the resolution as follows:

1. Double-click the **Display** icon in the control panel.
2. From the **Display Properties** dialogue box, select the **Settings** tab.
There is a slider on the right-hand side in the middle of the dialogue box that alters the displayed resolution. Set the resolution to 1280 x 1024.
3. *For Windows NT users only:* select a refresh rate of 60Hz and click **Test**.
A test pattern will be displayed. Make sure that there are no error messages shown by the monitor. If an error message is displayed, check the resolution and refresh rate settings or choose a different refresh rate.
4. Click **OK** to close **Display Properties**.

If you are using an Apple Macintosh, change the resolution by doing the following:

MacOS 8.x/9.x

1. Click the Apple icon at the top, left corner of the screen, select **Control Panel** and then select **Monitors**.
2. Select a resolution of 1280 x 1024 pixels with between 60Hz refresh rate.
3. If refresh rates of 60Hz are not available, click **Recommended** in the **Show** drop-down box and change it to **All**. Select the resolution and refresh rate as above.

A colour depth of either **Thousands** or **Millions** is recommended.

MacOS X

1. Click the Apple icon at the top, left corner of the screen, select **System Preferences** and then select **Displays**.
2. Select a resolution of 1280 x 1024 pixels with between 60Hz refresh rate.
3. A colour depth of either **Thousands** or **Millions** is recommended.

Supported Graphics Modes and Refresh Rate Selection

There is no need to choose the highest possible refresh rate when using an LCD monitor. It is not technically possible for an LCD monitor to flicker. Even at a refresh rate of 60 Hz you will get an absolutely flicker-free image.

For best results, it is important that you set the graphics adaptor to use one of the monitor's preset display modes shown in **Table 1** on the next page. Other graphics signals may be displayed poorly or not at all. Note that the DV170J/JB's preset modes correspond to VESA or Apple Macintosh standard graphics signals for these resolutions. All recent models of graphics adaptor should be able to support these modes. For the native resolution of 1280 x 1024 pixels, for example, refresh rates of 60, 70 and 75 Hertz are supported.

With Windows 95, 98, ME, 2000 or XP you can change the refresh rate of the

graphics signal as follows:

1. Double click the **Display** icon in the control panel.
2. From the **Display Properties** dialogue box, select the **Settings** tab and click the **Advanced Properties** button.
3. For Windows 95, 98, and ME select the **Adapter** tab, for 2000 and XP select the **Monitor** tab. The refresh rate selection field is located in the centre, at the bottom of the dialogue box.
4. Choose a refresh rate that corresponds with one of the factory modes from the table below.
5. Click **Apply**, and then **OK** twice.

Please Note:

- Graphics modes that are not listed in the table may not be supported. For an optimal picture it is recommended that you choose a graphics mode with a resolution of 1280 x 1024 pixels that is listed in **Table 1** on the next page. Resolutions of 640 x 480, 800 x 600 and 1024 x 768 pixels are supported. The default setting may require some adjustment before use.
- The displayed image may show some distortion or noise that can be caused by the signal from the VGA card if it does not correspond with the usual standard. This is not however, a problem with the monitor. If it is still visible after using the Automatic adjustment, you can usually improve the displayed image by manually adjusting the phase, horizontal position and pixel frequency settings using the "Geometry" menu. See Chapter 7, ***Adjusting the Monitor***, for more details.
- When you shut Windows down you may see interference lines on your screen. This caused by the manner in which Windows controls the graphics card at this point and is normal with all LCD monitors.
- To extend the service life of the product, we recommend that you use your computer's power management functions to turn the monitor off after extended idle periods.

Table 1

Standard Timing Table

If the selected timing is NOT included in table below, this LCD monitor will use the most suitable available timing.

TIMING	FH(KHZ)) FV(HZ)	SYNC POLARITY	TOTAL (DOT/ LINE)	ACTIVE (DOT/ LINE)	SYNC WIDTH (DOT/LINE)	FRONT PORCH (DOT/LINE)	BACK PORCH (DOT/LINE)	PIXEL FOREQ (MHZ)
640x350	31.469	+	800	640	96	16	48	25.175
VGA-350	70.087	-	449	350	2	37	60	
640x400	24.83	-	848	640	64	64	80	21.05
NEC PC9801	56.42	-	440	400	8	7	25	
640x400	31.469	-	800	640	96	16	48	25.175
VGA-GRAPH	70.087	+	449	400	2	12	35	
640x400	31.5	-	800	640	64	16	80	25.197
NEC PC9821	70.15	-	449	400	2	13	34	
640X480	31.469	-	800	640	96	16	48	25.175
VESA-PAL	50.030	-	629	480	2	62	85	
640x480	31.469	-	800	640	96	16	48	25.175
VGA-480	59.94	-	525	480	2	10	33	
640x480	35.00	-	864	640	64	64	96	30.24
APPLE MAC-480	66.67	-	525	480	3	3	39	
640x480	37.861	-	832	640	40	16	120	31.5
VESA-480-72Hz	72.809	-	520	480	3	1	20	
640x480	37.5	-	840	640	64	16	120	31.5
VESA-480-75Hz	75	-	500	480	3	1	16	
720x400	31.469	-	900	720	108	18	54	28.322
VGA-400-TEXT	70.087	+	449	400	2	12	35	
832x624 APPLE	49.725	-	1152	832	64	32	224	57.2832
MAC-800	74.55	-	667	624	3	1	39	
800x600	35.156	+	1024	800	72	24	128	36
SVGA	56.25	+	625	600	2	1	22	
800x600	37.879	+	1056	800	128	40	88	40
VESA-600-60Hz	60.317	+	628	600	4	1	23	
800x600	48.077	+	1040	800	120	56	64	50
VESA-600-72Hz	72.188	+	666	600	6	37	23	
TIMING	FH(KHZ)) FV(HZ)	SYNC POLARITY	TOTAL (DOT/ LINE)	ACTIVE (DOT/ LINE)	SYNC WIDTH (DOT/LINE)	FRONT PORCH (DOT/LINE)	BACK PORCH (DOT/LINE)	PIXEL FOREQ (MHZ)
800x600	46.875	+	1056	800	80	16	160	49.5
VESA-600-75Hz	75	+	625	600	3	1	21	
1024x768	48.363	-	1344	1024	136	24	160	65
XGA	60.004	-	806	768	6	3	29	
1024x768	53.964	+	1328	1024	176	16	112	71.664
COMPAQ-XGA	66.132	+	816	768	4	8	36	
1024x768	56.476	-	1328	1024	136	24	144	75
VESA-768-70Hz	70.069	-	806	768	6	3	29	
1024x768	60.023	+	1312	1024	96	16	176	78.75
VESA-768-75Hz	75.029	+	800	768	3	1	28	

1024x768	60.24	-	1328	1024	96	32	176	80
APPLE MAC-768	75.02	-	803	768	3	3	29	
1152x864 (60Hz)	54.054	+	1480	1152	96	40	192	80
	59.270	+	912	864	3	13	32	
1152x864 (70Hz)	63.851	+	1480	1152	96	32	200	94.499
	70.012	+	912	864	3	1	44	
1152x864 (75Hz)	67.50	+	1600	1152	128	64	256	108.00
	75.00	+	900	864	2	2	32	
1280x960 (60Hz)	60.00	+	1800	1280	112	96	312	108.00
	60.00	+	1000	960	3	1	36	
1280x960 (70Hz)	70.00	+	1800	1280	112	96	312	126.00
	70.00	+	1000	960	3	1	36	
1280x960 (75Hz)	75.00	+	1800	1280	112	96	312	135.00
	75.00	+	1000	960	3	1	36	
1280x1024VESA- 1024-60Hz	64	+	1688	1280	112	48	248	108
	60	+	1066	1024	3	1	38	
1280x1024VESA- 1024-75Hz	80	+	1688	1280	144	16	248	135
	75	+	1066	1024	3	1	38	

Note: Mode 640x350, 640x400 and 720x400 will locate on middle position but cannot be expanded to full

7 Adjusting the Monitor

User Controls

A brief description and the location of all LCD Monitor function controls and indicators:

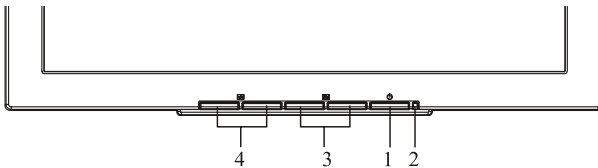


Figure 2-1

1	Soft Power Switch	Press the power switch to switch the monitor ON/OFF.
2	Power-On Indicator	LED lights Green color --- Power is ON. LED lights Yellow --- Monitor is in "Power Saving Mode". LED is off --- Power is OFF.
3	Function Select Buttons	Press either left or right control button for OSD (On Screen Display) menu selection.
4	Adjustment Control Buttons	Press the left button to decrease the OSD setting and press the right button to increase the OSD setting.

Adjusting the Monitor's Display

The monitor has four function control buttons to select among functions shown on OSD menu, designed for easy user-viewing environments.

OSD Function Menu









To access the OSD Main menu, simply press one of the Function Select control buttons, and the menu diagram will pop up on the screen as shown on Fig. 2-2:

Continue pressing the Function Select buttons to scroll through the available menu items, then press the Adjustment Control buttons to adjust the setting of a selected item.



Figure 2-2

Function Description

Icon	Function	Function Description
	Brightness	This function lets you increase and decrease the screen brightness.
	Contrast	This function lets you increase and decrease the contrast level of the screen.
	H. Position	This function let's you adjust the display's horizontal position. (Not available when using DVI).
	V. Position	This function let's you adjust the display's vertical position. (Not available when using DVI).
	Sharpness	This function let's you adjust the images sharpness. Five selections are available. A smoother setting is more suitable for pictures, while a sharper setting is more suitable for text. (Not available when using DVI).
	OSD Transparency	This function let's you set the transparency of the OSD menu (Not available when using DVI).
	Phase	This lets you adjust the phase of the pixel clock to eliminate sampling noise (Not available when using DVI).
	Clock	Adjusts the sampling frequency for the Analogue (VGA) to Digital signal conversion (Not available when using DVI).









	Colour Temperature	This function lets you select a colour temperature. Using the Adjustment Control buttons to select the required colour temperature. Please see the diagram below for function and description. (Not available when using DVI).
	OSD H. Position	This function moves the OSD menu window horizontally.
	OSD V. Position	This function moves the OSD menu window vertically.
	Graph / Text	Because the H and V-Frequencies of both 640 x 400 70Hz, and 720 x 400 70Hz, are the same, this function let's you manually select either 640 x 400 (graphics mode), or 720 x 400 (text mode) when running in DOS. (Not available when using DVI).
	Recall	The recall function will return all adjusted parameters to factory preset values.
	Language	Five OSD language options are available: English, German, French, Spanish, and Italian. Press the left or right adjustment control button to select other language.
	Auto and Input Select	This function lets you use the Automatic adjustment function to adjust the Geometry based on the displayed image, or select either the Analogue or Digital inputs
	Exit	Exits the OSD menu.

TABLE 1

Icon	Function	Description
9300	CIE coordinated Colour Temperature of 9300°K	Sets the CIE coordinate colour temperature to 9300°K
7500	CIE coordinated Colour Temperature of 7500°K	Sets the CIE coordinate colour temperature to 7500°K
6500	CIE coordinated Colour Temperature of 6500°K	Sets the CIE coordinate colour temperature to 6500°K
User	Three colours (Red, Green, Blue) can be adjusted from the OSD menu	Allows a user to define the CIE Temperature settings.

Picture Optimisation

The easiest way to obtain an optimal picture is by using the **Auto** function in the OSD menu. This only works reliably if the graphics adaptor is set to use one of the monitor's factory modes (see **Table 1** in the previous chapter) and if you are displaying a suitable stationary image (such as the Windows desktop).

The monitor will remember the settings obtained by the auto calibration settings and use them whenever you turn the monitor on. Note that you may need to readjust the monitor if it is connected to a different computer or if the computer's graphics adaptor is replaced.

If you are still not satisfied with the result, you can enhance the image by using the monitor's manual adjustment functions.

Manual Picture Adjustment

Adjustments to the displayed image and audio volume are made using the On-Screen Display (OSD), and the buttons on the front of the monitor.

To manually adjust the image:

1. Display your operating system desktop
2. Open the OSD menu by pressing one of the Function keys on the monitor.
3. Press **Fn▶** or **◀** to select the **Clock** function.
4. Press **▶** or **◀** to increase or decrease the sampling clock to get the optimum picture. Look closely at the picture displayed, especially surrounding text and icons, for any movement or change. Adjust the **Clock** setting and see how this affects this "noise" or movement. Make sure that in correcting noise in one part of the screen the setting does not create it in another. You should, with careful adjustment, be able to obtain a picture with no visible noise in any section of the screen.
5. If some noise or distortion is still visible select **Phase** using the **Fn▶** or **◀** buttons.
6. With the **Clock** set to the optimal value adjust the **Phase** to further optimise the displayed image. You should now be able, with a combination of the Phase and Clock settings, to obtain a perfectly stable image.
7. Finalise the manual adjustment using the **H. Position** and **V. Position** functions

If you are still not satisfied with the result, try repeating the above procedure using a graphics signal that has a different refresh rate.

Please Note:

You must use one of the factory modes when manually adjusting the picture. If you are having difficulties generating a supported mode, ask your computer dealer or the distributor or manufacturer of your graphics card for assistance.

The procedures described in this chapter should be performed for every resolution and type of graphics signal that you wish to use. For example, if a particular application requires a resolution of 800 x 600 pixels, but all other applications use the monitor's native resolution, you will need to display the test pattern and make adjustments twice.

The monitor will remember your settings and use them whenever you turn the monitor on. Note that you may need to re-adjust the monitor if it is connected to a different computer or if the computer's graphics adaptor is replaced.

8 Frequently Asked Questions

The image is blurred, how can I get the best quality picture?

- ◆ Read chapter 6, *Setting the Display Resolution*, and select a graphics signal with the correct resolution and refresh rate. Then read chapter 7, *Adjusting the Monitor*, and make adjustments to the displayed image based on these instructions.
- ◆ Have you used a VGA extension cable?

If so, remove the extension cable and check the displayed image. Has the image quality improved? Optimise the image using the procedures in chapter 7 with the extension cable removed. Reconnect the extension cable once the image has been optimised. Depending on the characteristics and type of the extension cable, some blurring or distortion may occur due to conduction losses of the extension cable. You can minimise these losses by using an extension cable with better conduction quality or with a built-in booster.

- ◆ Does the blurring only occur at resolutions lower than the native (maximum) resolution?

Please read chapter 6, *Setting the Display Resolution*. Select a graphics signal that uses the monitor's the native resolution (1280 x 1024 pixels).

Why does the image look yellow, blue or pink instead of showing the correct colours?

- ◆ The most common cause of this problem is a loose VGA signal cable or connector. Check that the cable is securely connected to the computer.
- ◆ Check the VGA signal cable for damage. If any pins are bent or broken off, contact your dealer or an authorised Mitsubishi Electric service agent (see Chapter 10 for details).

No image is displayed, what can I do?

- ◆ Check that the light (LED) next to the monitor's power button is lit and is green in colour. If the LED is green, press one of the Function Select buttons on the monitor to access the On Screen Display. If the message *NON PRESET MODE* appears there, please read chapter 6, *Setting the Display Resolution* and reset the graphics card to one of the monitor's supported graphics signals.
- ◆ If the LED is orange the monitor is in power saving mode. Press a button on the computer keyboard or move the mouse to wake the computer. If that does not help, check that the VGA cable is securely plugged into the computer. Also check the pins of the VGA cable's connector. If any pins are bent or broken off, then contact your dealer (see Chapter 10 for details).
- ◆ If the LED is not lit at all, check that the monitor is plugged into the power supply mains socket and that the power switch is turned on. Check that the monitor's power switch is also turned on.

The image is or distorted, flashes or flickers:

- ◆ Check that the monitor's signal cable is securely connected to the computer.
- ◆ Read the chapters 6 and 7 of this manual, then select the correct resolution, refresh rate and make adjustments based on these instructions.

The image is displaced in one direction:

- ◆ Use the **H. Position** (horizontal position) adjustment in the monitor's OSD to reposition the image.
- ◆ Read the chapters 6 and 7 and then select the correct resolution, refresh rate and make adjustments based on these instructions.

Specifications

Model: DV170J/JB

Display Characteristics

Display Type	17" active matrix Thin Film Transistor Liquid Crystal Display
Viewable Diagonal Area	43 cm / 17"
Native (Maximum) Resolution	1280 x 1024 pixels
Colours	16 million (6 bit + FRC)
Contrast Ratio	450:1 (typical)
Brightness	260 cd/m ² (typical)
Response Time	12 ms (typical)
Viewing Angle (Horizontal, Vertical)	-60°/+60°, -40°/+60°(typical)
Dot Pitch	0.264mm x 0.264 mm

User Interface

Controls	Power switch with LED indicator
On-Screen Display Functions	Contrast, Brightness, Vert. & Hor. Position, Phase, OSD Position, Auto Adjustment, Clock, Graph/Text, language, Recall, Colour Temperature, Exit, Sharpness, OSD Transparency
Microprocessor Controlled Graphics Modes	28 Preset modes: Including 11 VESA & 4 DOS

Input Signal

Line Frequency	24 – 80kHz multi-frequency
Image Frequency (Refresh Rate)	49 - 75Hz
Video Signal	RGB analogue (Positive polarity) 0.7 Vpp/75 Ohm
Synchronization	TTL separate, composite TTL
Signal Connection	15-pin mini D-sub

Physical Characteristics

Power Management	VESA DPMS, Energy Star
Maximum Power Consumption	48 Watts
Power Saving Mode	< 3 Watts
Operating Voltage	Automatic switched mode power supply, 100 - 240 V, 50 - 60 Hz
Dimensions (W x H x D)	374mm x 387mm x 190mm
Weight	5 kg
Temperature (Operating)	5°C - 40°C
Air Humidity (Operating)	20% - 80%

Regulatory Certification

Safety	AS/NZS 60950:2000
EMI/EMC	AS/NZS CISPR22:2002 (C-Tick).
Other	ISO 13406-2

IO Service Contacts

If problems remain after checking this manual, please contact your place of purchase or contact:

Australian Service Contacts

Visit the Customer Support section of Mitsubishi Electric Australia's web site at

www.mitsubishielectric.com.au

for details of your nearest Mitsubishi Electric Authorized Service Center or contact the Service Department for your state:

New South Wales and Australian Capital Territory

348 Victoria Road

Rydalmere, NSW, 2116

Telephone: (02) 1300 651-808

Fax: (02) 9684-7684

Queensland

12 / 469 Nudgee Road

Hendra, QLD, 4030

(Airlink Business Park)

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Fax: (07) 3630-1888

South Australia and Northern Territory

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Hindmarsh, SA, 5007

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Fax: (08) 8340-0555

Victoria and Tasmania

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