

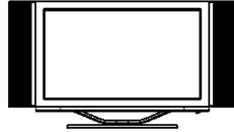


Diamond Digital

DV321

Wide Screen LCD Flat
Panel Display
32" (81.3 cm) LCD Panel Size

User's Manual



DV321

USER'S MANUAL

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Thank you very much for choosing the DV321 LCD TV.

We recommend that you take a few minutes to read carefully through this manual before installing and switching on the TV. Please keep this manual in a safe place for your future reference.

IMPORTANT SAFETY INSTRUCTIONS

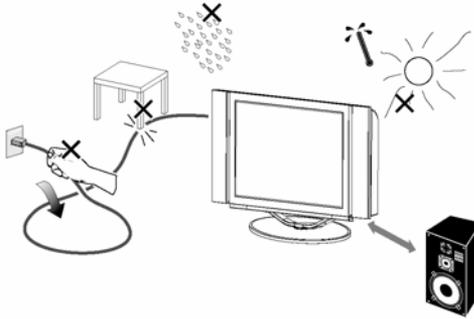
Read before operating equipment

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturers instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and third grounding prong. The wide blade or third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. The TV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
16. This product may contain lead or mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authority.
17. **Damage Requiring Service** – The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or

- D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
- E. The appliance has been dropped, or the enclosure damaged.
18. **Tilt/Stability** – All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinets design.
- Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet, which could ultimately overturn the product.
 - Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.
19. **Power Lines** – An outdoor antenna should be located away from power lines.
20. **Objects and Liquid Entry** – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

PREPARATION

1. Place the TV on a solid surface.

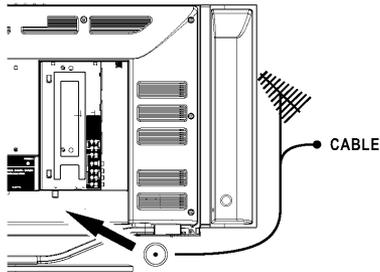


Ensure that the TV is placed in a position to allow free flow of air. Do not cover the ventilation openings on the back cover.

To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed on or in the vicinity.

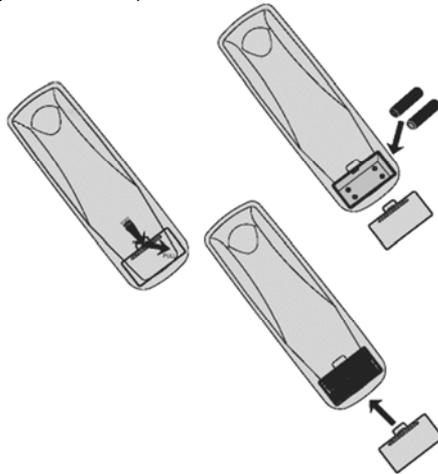
Avoid heat, direct sunlight and exposure to rain or water. The equipment shall not be exposed to dripping or splashing.

2. Insert the aerial plug firmly into the aerial socket **ANT IN 75Ω** at the back of the TV.



3. Remote control:

Remove the cover of the battery compartment. Insert the 2 batteries supplied (Type AAA 1.5V).



4. Power:

Insert the power cord in the wall socket having an AC power supply.

5. Turn the TV on:

Press the power button at the top of the TV to turn it on.

If the TV is in power off, the indicator in front of the TV illuminates amber.

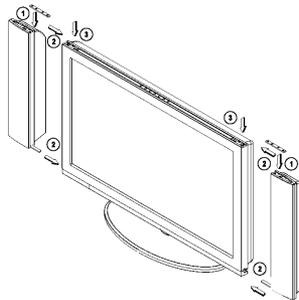
6. How to assemble speakers:

Step 1: Use ② (in accessory box) lock to TV nomenclon ③.

Step 2: lock speaker as ①.

Step 3 : connect speaker to TV.

Please refer to the graph .



OPERATING INSTRUCTIONS

USE OF THE REMOTE CONTROL

POWER

Press to turn on/off the TV. The TV is never completely powered off unless it is physically unplugged.

CH

Press \blacktriangle or \blacktriangledown (or \blacktriangle or \blacktriangledown button) to browse through the TV channels which are not erased.

0~9/100 Digit buttons

To select a TV channel.

VOL

Press + or - (or \blacktriangleleft or \blacktriangleright button) to adjust the volume.

NICAM

To select Mono /Stereo/Sound A /Sound B/Sound AB from TV RF input.

SLEEP

With this key you can set a time period after which the TV should switch itself to standby. Press the key repeatedly to select the number of minutes. The counter runs from 30, 60, 90, 120 minutes. The timer begins to count down from the number of minutes selected after the display has disappeared.

PIP

Select PIP on/off.



MENU Press repeatedly to display OSD menu.

DPF

Not support.

WIDE

Includes 3 modes: Press repeatedly to select 4:3 /16:9 / 16:9 non-Linear.

SWAP

Not support.

MUTE

Temporarily interrupt the sound or restore it.

DISPLAY

- (1) Display Channel number when use RF input.
- (2) Display input source when use other input except TV RF input.

RECALL

To display the previously selected TV channel.

TV/VIDEO

Select your input source: press repeatedly to select **TV, AV1, AV2, S-VIDEO** or **COMPONENT** mode, according to where you connected your external source.

- **AV1/AV2** for a VCR connected to the AV connectors of the TV.
- **S-VIDEO** for a S-Video VCR connected to the S-VIDEO connector of the TV.
- **COMPONENT** for a DVD/DTV Set Top Box or another component video device connected to the **Y, Pb, Pr** and to the **AV AUDIO** inputs **L** and **R**.

WIRELESS

Not support.

PC

select your input source to PC.

TO USE THE MENUS

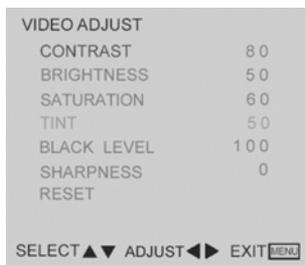
1. Press the **MENU** button repeatedly to display each menu
2. Use the cursor up/down to select a menu item or adjust the setting of Menu item.
3. Use the cursor left/right to enter a submenu or enable the function.
4. Press the **MENU** button to exit the menu.

MAIN MENU

Press the **MENU** button into the main OSD (On Screen Display). Adjust item include **VIDEO ADJUST**, **AUDIO ADJUST**, **PIP**, **SLEEP TIMER**, **SET UP**, **PC ADJUST**.



Video Adjust



1. **Contrast**, **Brightness** and **Saturation** are adjusted from 0 to 100.
2. **Black Level** is adjusted from 0 to 100.
3. **Sharpness** is adjusted from -5 to +5.
You can adjust picture contrast, brightness, saturation, tint, black level and sharpness to the levels you prefer.
4. **Reset** is set up to default value.

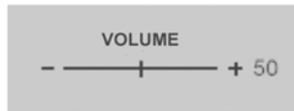


When adjust any item sub-OSD will show up like this.

Audio Adjust



1. **Volume** is adjusted from 0 to 100.
2. **Bass** and **Treble** are adjusted from 0 to 100.
You can adjust picture Volume, Bass and Treble to the levels you prefer.



When adjust any item sub-OSD will show up like this.

PIP (Only available in PC mode)

1. PIP function is turn on /off small picture
2. Position is move for small picture
3. Source is choose from TV /AV1/AV2/S VIDEO
4. Audio select is choose from MAIN/SUB



Sleep Timer is for set a time period after which the TV should switch itself to standby. The counter runs from 30 > 60 > 90 > 120 minutes. The timer begins to count down from the number of minutes selected after the display has disappeared.

Note: To view the remaining time, press the **SLEEP** button once. To cancel the sleep time, repeatedly press the **SLEEP** button until--- APPEARS. If you turn the TV off after setting the sleep time, the setting will be erased. Set it again.

Set up

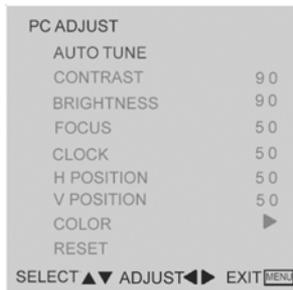


1. **Blue screen** for when no video input screen will be blue or blank. If it's ON, the screen will be in blue. If it's OFF, the screen will be blank. Preset is ON.
2. **Language** for different language OSD MENU includes Simplified Chinese/ English. Preset is Simplified Chinese.
3. **SYSTEM** is select the TV broadcasted system.
4. **CH SEARCH** for search all TV program and storing in memory.

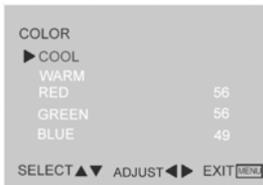
5. **CH DEL.** ◀/ADD. ▶ If “ DEL” the channel will be masked.
6. **MANU SCAN** for search TV Program channel by channel.
After scan a new program, press MENU key, it will be automatically saved in the last channel.
7. **CH SWAP** save the location of current channel and destination channel for each other
8. **View Mode** : Includes 3 modes: Press repeatedly to select
4:3 / 16:9 / non-Linear.
9. **Reset** is set up to default value of **BLUE SCREEN** and **LANGUAGE** .

PC Adjust

1. **Auto tune** is the function auto-sizing for VGA input.
2. **Contrast, Brightness, Focus, Clock, H Position, V Position and Colour** are the functions for PC adjustment.



Colour for you can adjust the colour temperature you prefer.



TV and AV colour temperature adjust:

User can select 3 kinds of colour mode on TV or AV to get more suitable picture which they wished, 3 kinds of mode are cool/warm/standard.



Connect Peripheral Equipment

FRONT PANEL CONTROL KNOBS



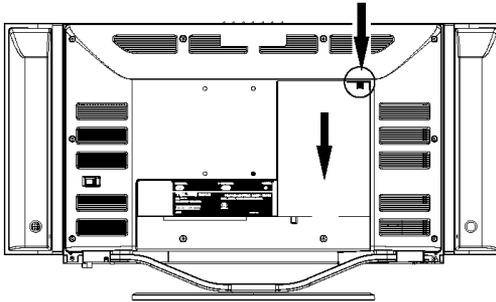
: Press to turn on or off the TV.

MENU Key : Press to show the OSD menu and exit OSD menu at the TV.

CH Key : Press to perform select function and channel.

VOL Key : Press to confirm your function selection and adjustment.

Source Key : Press to select your input source.



There is a wide range of video and audio equipment that can be connected to your TV. The following connection diagrams show you how to connect them.

PREPARATION

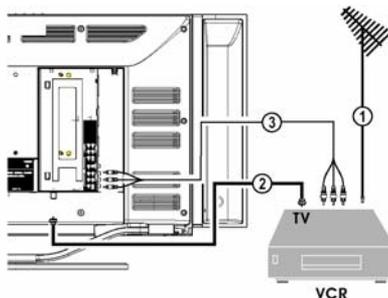
Remove the back plate at the back of the TV as shown on the illustration opposite.

Lay the LCD TV with the screen down on a table, as it will be easier to connect your peripheral equipment. Please take your precautions not to damage the screen.

VIDEO RECORDER

How to connect

1. Connect the supplied antenna cable ① to the **RF IN** port of your VCR.



2. Connect another RF cable ② from the output **RF** of your VCR to the input of your TV. Better quality when playing from your **VCR** can be obtained if you also connect the AV (only for stereo equipment) cables ③

If your VCR has an S-VHS video jack:

For improved picture quality, connect a **S-Video** cable with the S-VIDEO input on the TV instead of connecting the VCR to the **VIDEO** port.

S-Video does not provide audio, audio cables must still be connected to provide sound.

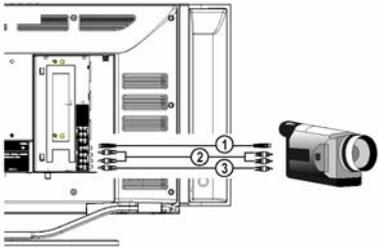
Watching VCR

1. If you use connection ②, please select TV channel auto search on OSD, until get the program you need.
2. If you use connection ③, please select **AV1.AV2**
3. Insert videotape in the VCR and press the **PLAY** button.

CAMCORDER, VIDEO GAME SET ...

DIGITAL CAMERA

How to connect

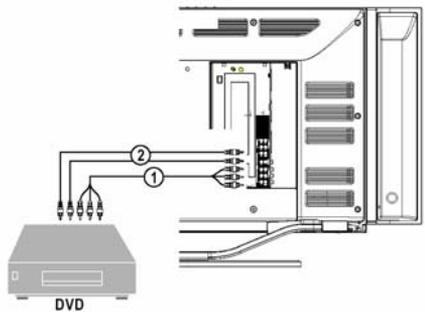
1. Use AV ②③ to
Connect your digital
camera, camcorder,
videogame set
- 
2. For stereo equipment also connect **AUDIO R** ②.
S-VHS quality with an S-VHS camcorder is obtained by connecting the S-VHS cable with the S-VIDEO input ① and **AUDIO** input ②.

How to use

1. Select **AV1**, **AV2** or **S-VIDEO** input .
2. Turn on the external AV equipment.

DVD PLAYER

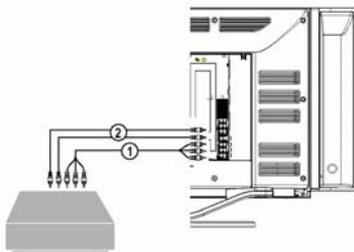
How to connect

1. Connect the three
separate component
video cables ① to the
DVD player's **Y**, **Pb**
and **Pr** ports and to the
Y, **Pb** and **Pr** ports on
the TV.
- 
2. Connect the audio cables ② to the DVD player's **AUDIO L** and **R** ports
and to the **AUDIO L** and **R** ports on the TV.

How to use

1. Select **COMPONENT**.
2. Turn on the DVD set.

DIGITAL SET TOP BOX



Set up box

How to connect

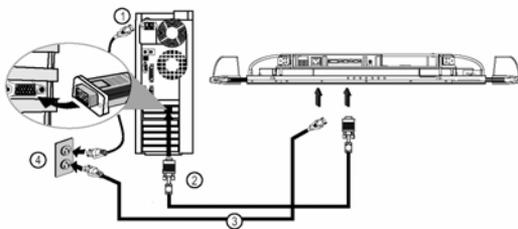
1. Connect the three separate component video cables ① to the DTV player's **Y**, **Pb** and **Pr** ports and to the **Y**, **Pb** and **Pr** ports on the TV.
2. Connect the audio cables ② to the DTV player's **AUDIO L** and **R** ports and to the **AUDIO L** and **R** ports on the TV.

How to use

1. Select **COMPONENT**.
2. Turn on the DTV Set Top Box set.

Warning: In case you notice scrolling images, wrong colours or no colour, no picture or even combinations of these, on your screen, check if the connections are done in the right way. Check if the cable colours match with the Input connector colours.

PC



How to connect PC input

- ①. please use D-sub signal cable in Accessories plug in D-sub port which is in TV monitor's bottom side of back as Graph.
- ②. please use Audio Cable in Accessories plug in PC audio connector port which is in TV monitor's bottom side of back as Graph.

TIPS

Care of the screen

Do not rub or strike the screen with anything hard as this may scratch, mar, or damage the screen permanently.

Unplug the screen before cleaning the screen. Dust the TV by wiping the screen and the cabinet with a soft, clean cloth. If the screen requires additional cleaning, use a clean, damp cloth. Do not use liquid cleaners or aerosol cleaners.

Mobile telephone warning

To avoid disturbances in picture and sound, malfunctioning of your TV or even damage to the TV, keep away your mobile telephone from the TV.

End of life directives

We are paying a lot of attention to produce environmentally friendly in green focal areas. Your new receiver contains materials which can be recycled and reused.

At the end of its life specialized companies can dismantle the discarded receiver to concentrate the reusable materials and to minimize the amount of materials to be disposed of.

Please ensure you dispose of your old receiver according to local regulations.

Product Specification

Feature	32" screen WXGA (1366 x 768) Resolution High Brightness (550 cd/m ²) High Contrast Ratio (800:1) Wide Viewing Angle (170°H / 170°V) PC Input Support SDTV/HDTV signal (480i/p,576i/p,720p&1080i)
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Items		Specification	
LCD Panel	Screen Size	32" TFT-LCD Panel	
	Aspect Ratio	16:9	
	Resolution	1366 x 768 (WXGA)	
	Display Area (opening) H x V	697.68mm x 392.26mm	
	Pixel Pitch	0.51mm x 0.51mm	
	Display colours	16.7 million	
	Contrast Ratio	800:1 (typical)	
	Brightness	550cd / m ² (typical)	
	Viewing Angle	170° (Horizontal)/ 170° (Vertical)	
	Response Time	12ms (gray to gray)	
	Lamp Type/Life	60000 hr	
	Colour Temperature	Cool / Warm	
TV Function	TV Standard	PAL B/G ,D/K , I , NTSC M	
	Sound systems	NICAM ,A2 ,BTSC	
Video Inputs	AV1	RCA x 1	Audio L/R x 1
	AV2	RCA x 1	Audio L/R x 1
		S-Video x 1	(Share)
	Component	YPbPr x 1	Audio L/R x 1
Colour system	PAL/SECAM/NTSC		

PC Input	Signal Input	Analog: D-Sub 15 pin (detachable cable)
	PnP compatibility	DDC 2B
	Input frequency	Analog: FH: 31.5kHz to 50kHz FV: 60Hz to 75Hz
	Recommended	Analog: 1360x 768 (60Hz)
	Input Audio	Headphone Mini-jack for stereo (3.5ø)
Audio Output	Audio Output: L / R	Speaker: Two 10 watt speakers
		Headphone Mini-jack for stereo (3.5ø)
		Line Output (RCA L/R)
OSD language	Simplified Chinese / English (Default Language: Simplified Chinese)	
Table Stand	Included	
Wall Mount	VESA 100*100*175 mm	
Power	Power Supply	AC100V~240V, 50/60Hz
	Power Consumption	<180W
Panel Tilt	Forwards/Backwards/Rotation	- 5° / + 20° / ± 35°
Environment	operating temp	+ 0°C ~ + 40°C
	storage temp	- 25°C ~ + 60°C
	operating humidity	10% ~ 85%
Dimension	W x H x D (with stand and speaker)	1030 x 572.5 x 260(mm)
Weight (net)	Kg (w/o Accessories)	22.5 Kg
Accessories	Remote Controller, Batteries (AAAx2), AC Power Cord, D-sub Signal Cable, Audio Cable, TV Service Guide for User, TV Guaranty Card, User's Manual, Setup Guide	

Before Calling Service

Please make these simple checks before calling service. These tips may save you time and money since charges for receiver installation and adjustments of customer controls are not covered under your warranty.

Symptoms	Items to Check and Actions to follow
"Ghost " or double image	*This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.
No power	*Check that the TV's AC power cord is plugged into the mains socket. *Unplug the TV, wait for 60 seconds. Then re-insert plug into the mains socket and turn on the TV again.
No picture	*Check antenna connections at the rear of the TV to see if it is properly connected to the TV. *possible broadcast station trouble. Try another channel. *Adjust the contrast and brightness settings. *Check the Closed Captions control. Some TEXT modes could block the screen.
Good picture but no sound	*Increase the VOLUME. *Check that the TV is not muted; press the button on the remote control.
Good sound but poor colour	*Adjust the contrast, colour and brightness settings.
Poor picture	*Sometimes, poor picture quality occurs when having activated an S-VHS camera or camcorder connected and having connected another peripheral at the same time. In this case switch off one of the other peripherals
Snowy picture and noise	*Check the antenna connection
Horizontal dotted line	*This may be caused by electrical interference (e.g. hairdryer, nearby neon lights, etc.) *Turn off the equipment.
Television not responding to remote control	*Check whether the batteries are working. Replace if necessary *Clean the remote control sensor lens on the TV. *You can still use the buttons at the front of your TV. *Select the TV mode to be sure your remote control is in the TV mode.

GLOSSARY

Audio / Video Inputs

Located on the rear and the front of the receiver these connectors (RCA phono type plug) are used for the input of audio and video signals. Designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound connection options.

S-Video Input

Allows direct connection of high-resolution video sources, such as a Super VHS videocassette recorder, Laser Disc player, etc. Provides improved picture resolution, sharpness, and clarity.

HDTV input

Allow user connect Height definition input , such as DVD player , HDTV TV of component input , provide better performance and sharpness.

Video outputs

Provide audio output , to use external speaker for Higher voice quality.

Menu

An on-screen listing of feature controls shown on the TV screen that are made available for user adjustments.

Multichannel Television sound (MTS)

The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

RF

Radio Frequency or modulated signal design used as the carrier for television broadcasts.

Second Audio Program (SAP)

Another or additional audio channel provided for in the Multichannel Television Sound (MTS) broadcast standard. A monaural soundtrack included within the recorded or video signal (usually containing a second language translation for the displayed program).

Sleep Timer

Function with which you can set a time period after which the TV should turn itself off.

Service Contacts

If problems remain after checking this manual, please contact your place of purchase or contact. Australian Service Contacts visit the Mitsubishi Electric Australia web site at www.mitsubishielectric.com.au for details of your nearest Mitsubishi Electric Authorised Service Centre or contact the Service Department for your state:

New South Wales and Australian Capital Territory

348 Victoria Road
Rydalmere, NSW, 2116
Telephone: 1300 651 808
Fax: (02) 9684-7684

Queensland

12 / 469 Nudgee Road
Hendra, QLD, 4011
(Airlink Business Park)
Telephone: (07) 3623-2000
Fax: (07) 3630-1888

South Australia and Northern Territory

77 Port Road
Hindmarsh, SA, 5007
Telephone: (08) 8340-0444
Fax: (08) 8340-0555

Victoria and Tasmania

4 / 303 Burwood Hwy
East Burwood, VIC, 3151
Telephone: (03) 9262-9899
Fax: (03) 9262-9850

Western Australia

5 / 329 Collier Road
Bassendean, WA, 6054
Telephone: (08) 9377-3411
Fax: (08) 9377-3499