



DV300/DV301B

30" Multimedia Information Display

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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.

Monitor Information

Product Name: Diamond Digital DV300/DV301B

Serial Number: _____

Date of Purchase: _____

Dealer Information

Dealer: _____

Telephone Number: _____

Address: _____

1. Safety and Installation**Safety precautions and maintenance**

WARNING: Use of controls, adjustments or procedures other than those specified in this documentation may result in exposure to shock, electrical hazards and/or mechanical hazards.

Read and follow these instructions when connecting and using your monitor:

- Unplug the monitor if you are not going to use it for an extensive period of time.
- Unplug the monitor if you need to clean it with a slightly damp cloth. The screen may be wiped with a dry cloth when the power is off. However, never use alcohol, solvents or ammonia-based liquids.
- Consult a service technician if the monitor does not operate normally when you have followed the instructions in this manual.
- Only qualified service personnel should open the casing cover.
- Keep the monitor out of direct sunlight and away from stoves or any other heat source.
- Remove any object that could fall into the vents or prevent proper cooling of the monitor's electronics.
- Do not block the ventilation holes on the cabinet.
- Keep the monitor dry. To avoid electric shock, do not expose it to rain or excessive moisture.
- If turning off the monitor by detaching power cable or DC power cord, wait for 6 seconds before re-attaching the power cable or DC power cord for normal operation.
- To avoid the risk of shock or permanent damage to the monitor do not expose the monitor to rain or excessive moisture.
- When positioning the monitor, make sure the power plug and outlet are easily accessible.
- **IMPORTANT:** Always have a screen saver program installed on your computer. If a still image in high contrast remains on the screen for an extended period of time, it may leave an 'after-image' or 'ghost image' on the front of the screen. This is a well-known phenomenon that is caused by the shortcomings inherent in the LCD technology. In most cases the after-image will disappear gradually over a period of time after the power has been switched off. Be aware that the after-image symptom cannot be repaired and is not covered under warranty.

Consult a service technician if the monitor does not operate normally when the operating instructions given in this manual have been followed.

Installation Locations

- Avoid exposure to heat and extreme cold
- Do not store or use the product in locations exposed to heat, direct sunlight or extreme cold.
- Avoid moving the product between locations with large temperature differences. Choose a site that falls within the following temperature and humidity ranges.
- Temperature: 0-35°C 32-95°F
- Humidity: 20-80% RH
- Do not subject the product to severe vibration or high impact conditions. Do not place the product inside a car boot.
- Take care not to mishandle this product by either knocking or dropping during operation or transportation.
- Do not store or use the product in locations where there is a high level of humidity or in dusty environments. Do not allow water or other liquids to spill on or into the product.

2. About this Manual

About This Guide

This user's guide is intended for anyone who uses the Diamond Digital LCD Information Display. It describes the features, setup, operation and other important information.

It includes the following sections:

- Safety and Troubleshooting Information provides tips and solutions for common problems as well as other related information you may need.
- About This Manual gives an overview of information included, along with notation icon descriptions and other documentation for your reference.
- Product Information gives an overview of the monitor's features
- Installing Your Monitor describes the initial setup process and gives an overview of how to use the monitor.
- On-Screen Display provides information on adjusting the settings on your monitor.
- Remote Control provides information on adjusting the settings for your TV function.
- Service Contacts contains a list of national Diamond Digital service locations along with support phone numbers/web address and information on the warranty applicable to your product.

Notational Descriptions

The following subsections describe notational conventions used in this document.

Notes, Cautions and Warnings

Throughout this guide blocks of text may be accompanied by an icon and printed in bold or italic type. These blocks contain notes, cautions or warnings. They are used as follows:



NOTE: This icon indicates important information and tips that help you make better use of your computer system.



CAUTION: This icon indicates information that tells you how to avoid either potential damage to hardware or loss of data.



WARNING: This icon indicates the potential for bodily harm and tells you how to avoid the problem.

Some warnings may appear in alternate formats and may not be accompanied by an icon. In such cases, the relevant regulatory authority mandates the specific presentation of the warning.

3. Product Information

Product Features

DV300/DV301B

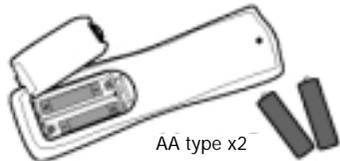
- 29.5-inch WXGA (1280x768 resolution, 176 degree viewing angle) LCD all-in-one Monitor with excellent display performance
- Multiple video input allowing display of PC, TV, HDTV, VCD, DVD, Progressive DVD and Camcorder
- Network controllability via RS232 interface for managing the performances, setting, etc.
- Digital High Definition Picture (1080i, 720p, 576p, 576i, 480p, 480i)
- DCDi™ de-interlacing technology for superior depiction of motion
- Picture-in-Picture (PIP) function in PC VGA mode
- Light sensor to adjust brightness automatically
- Digital Nicam/2CS stereo (available only in Asia Pacific and Western Europe)
- Component Video Input (YPbPr/YCbCr) for DVD/HDTV
- Euro connector (SCART) (available in Western Europe)
- MultiSystem TV tuner-PAL (available in DV300 model only)

4. Accessory Pack

Unpack all the parts.



Power cable



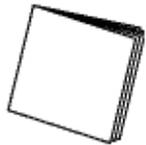
Remote control & batteries



DVI-D cable



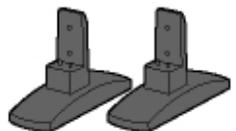
VGA signal cable



Instruction Manual



S-video cable (DV300 only)



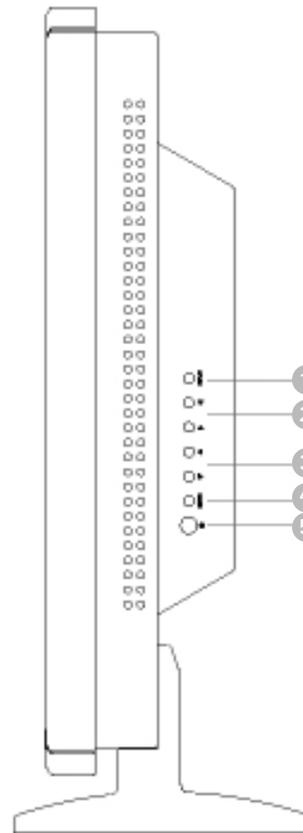
Base



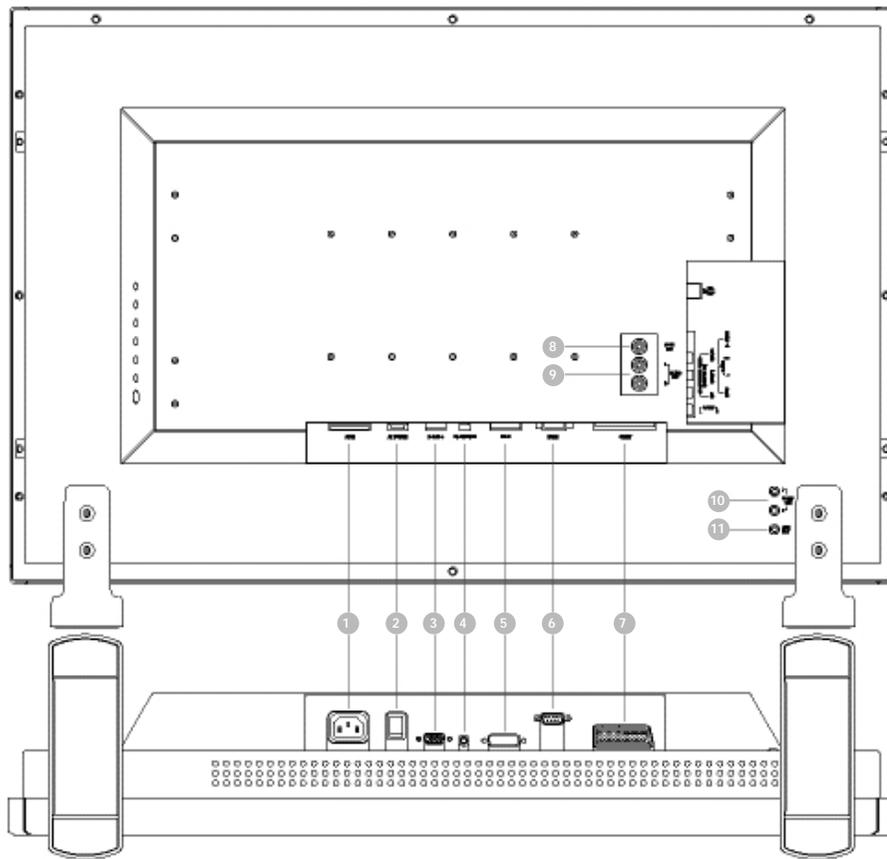
2x 5W Detachable Speakers (DV300 only)

5. Installing your LCD Monitor

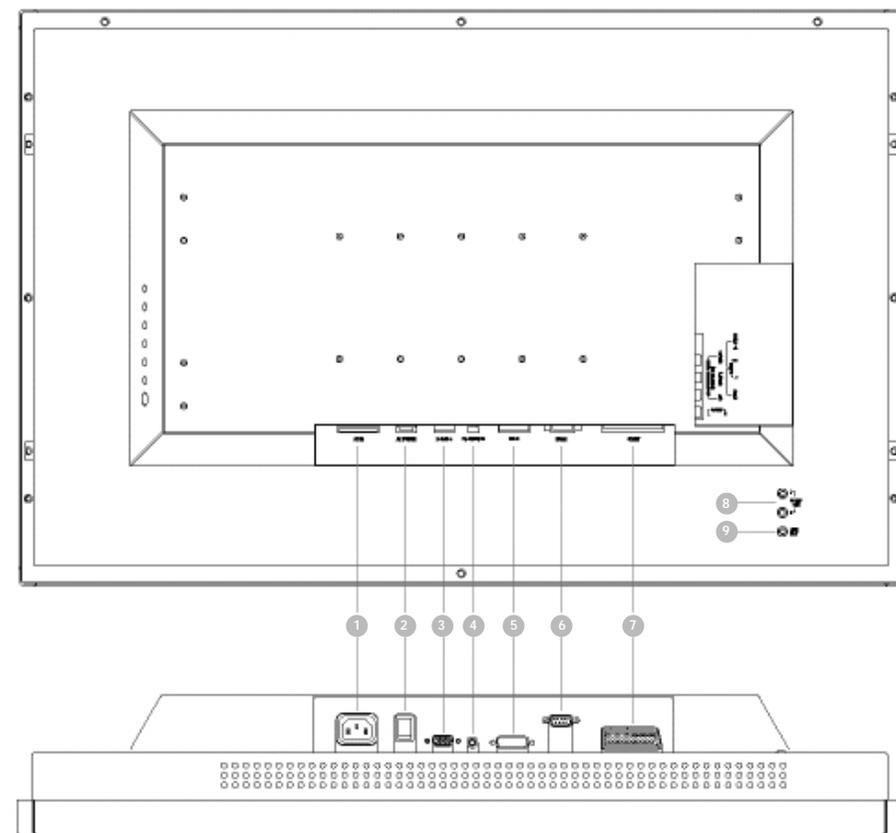
**Product Description
Side View (Left)**



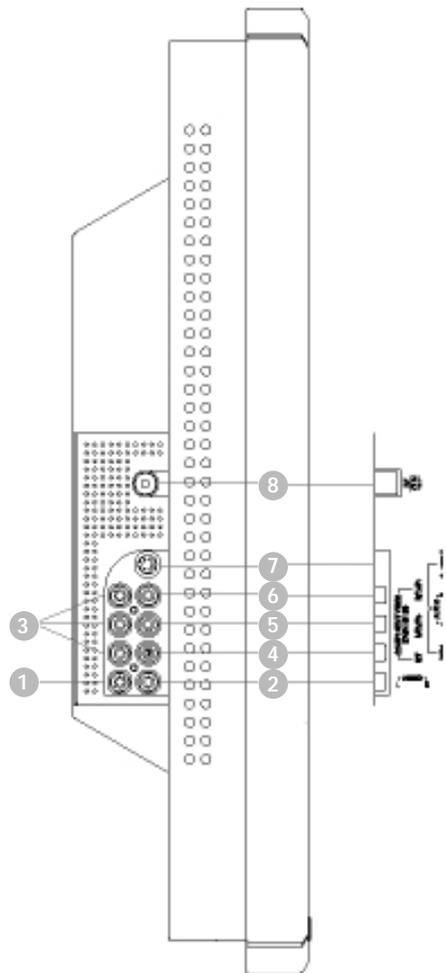
- 1 **INPUT** INPUT Selecting input source
- 2 **▲▼** Increase or decrease the channel number or moving up or down to highlight the function in OSD
- 3 **◀▶** Increase or decrease the level of audio volume or moving left or right to highlight the sub-menu in the selected function of OSD
- 4 **MENU** MENU Open the OSD or confirm the selected function
- 5 **⏻** DC power switch On/Off

**Rear View
DV300**


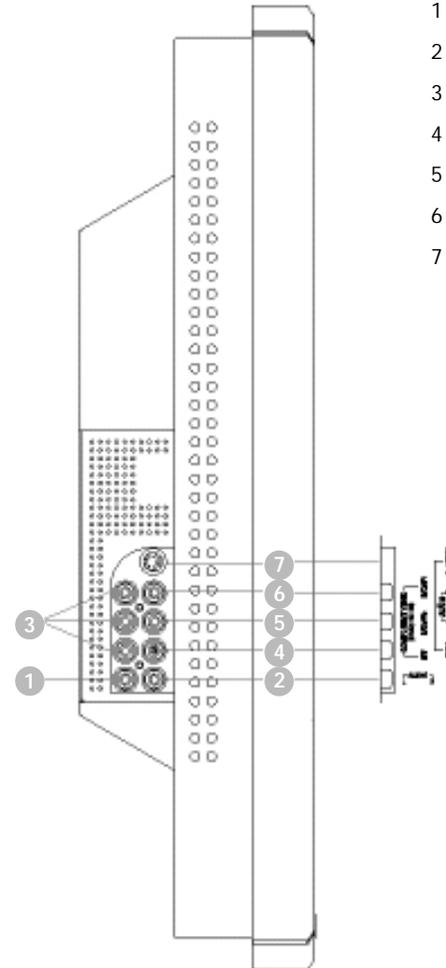
- | | | |
|----|--------------------------------------|--|
| 1 | AC IN | AC power in |
| 2 | AC Power | AC power switch |
| 3 | D-Sub | PC analog D-Sub input |
| 4 | PC - Audio | PC Stereo input |
| 5 | DVI-D | PC digital input |
| 6 | RS232 | RS232 network connection |
| 7 | External/EURO-AV | SCART connection (for Europe only) |
| 8 | Composite Video Output | Composite Video CVBS output |
| 9 | Audio (L) Output
Audio (R) Output | Audio (L) output
Audio (R) output |
| 10 | Audio (L) Output
Audio (R) Output | Audio (L) output for the detachable speaker (L)
Audio (R) output for the detachable speaker (R) |
| 11 | Line out | Audio output for external speakers |

DV301B


- | | | |
|---|--------------------------------------|--|
| 1 | AC IN | AC power in |
| 2 | AC Power | AC power switch |
| 3 | D-Sub | PC analog D-Sub input |
| 4 | PC - Audio | PC Stereo input |
| 5 | DVI-D | PC digital input |
| 6 | RS232 | RS232 network connection |
| 7 | External/EURO-AV | SCART connection (for Europe only) |
| 8 | Audio (L) Output
Audio (R) Output | Audio (L) output for the detachable speaker (L)
Audio (R) output for the detachable speaker (R) |
| 9 | Line out | Audio output for external speakers |

**Side View (Right)
DV300**


- | | | |
|---|-----------------|--------------------------------|
| 1 | Audio (L) | Audio (L) for component video |
| 2 | Audio (R) | Audio (R) for component video |
| 3 | Component Video | Component video Y/Pb/Pr input |
| 4 | Composite Video | Composite video CVBS input |
| 5 | Audio (L) | Audio (L) for CVBS and S-Video |
| 6 | Audio (R) | Audio (R) for CVBS and S-Video |
| 7 | S-Video | S-Video input |
| 8 | RF 75Ω | TV Antenna or CATV cable in |

DV301B


- | | | |
|---|-----------------|--------------------------------|
| 1 | Audio (L) | Audio (L) for component video |
| 2 | Audio (R) | Audio (R) for component video |
| 3 | Component Video | Component video Y/Pb/Pr input |
| 4 | Composite Video | Composite video CVBS input |
| 5 | Audio (L) | Audio (L) for CVBS and S-Video |
| 6 | Audio (R) | Audio (R) for CVBS and S-Video |
| 7 | S-Video | S-Video input |

Optimising Performance

- For best performance, ensure that your display settings are set at 1280x768, 60Hz.

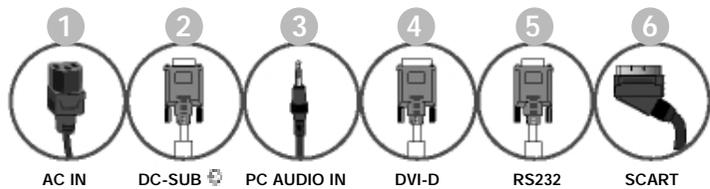
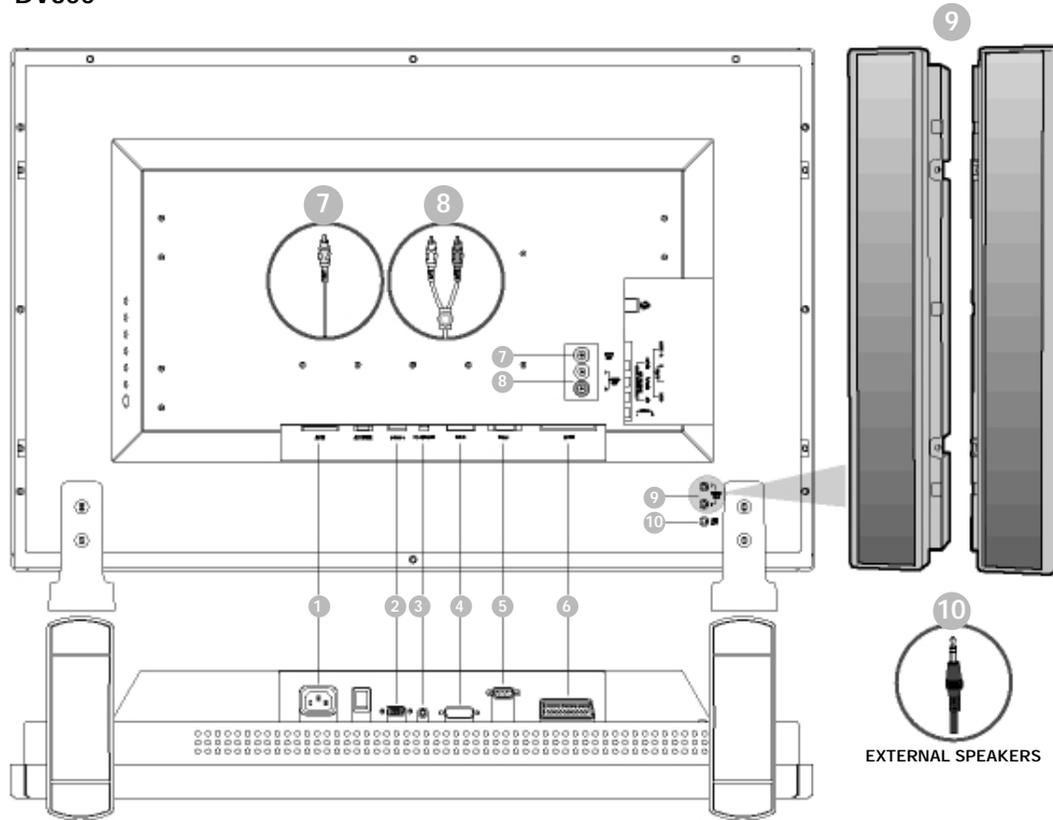
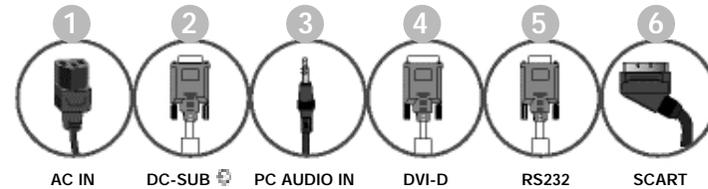
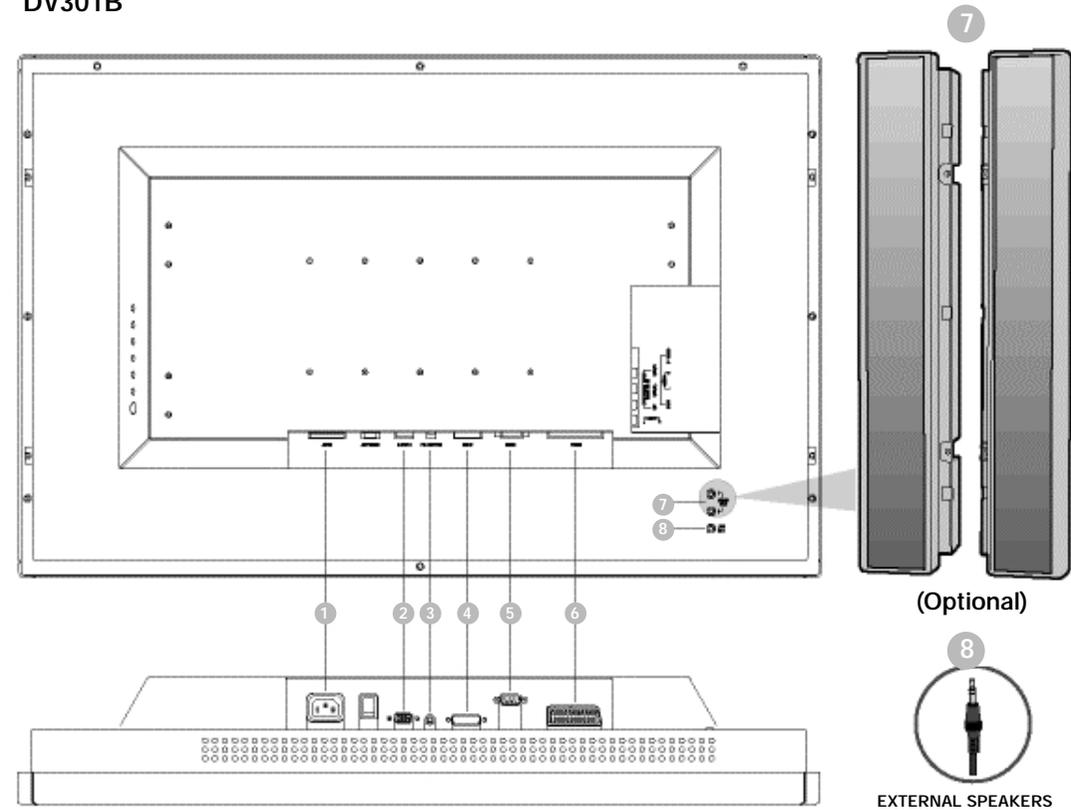


Note: You can check the current display settings by pressing the 'MENU' button once.

6. Setting up your TFT Monitor

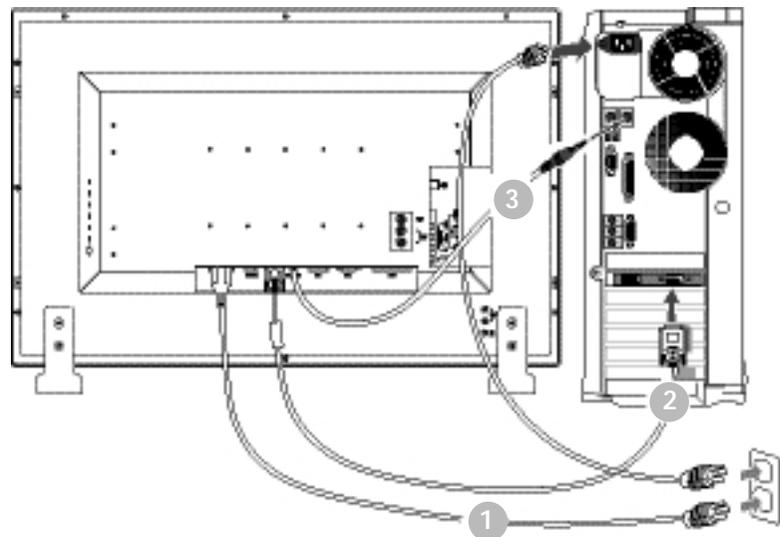
Connecting the monitor/TV

- Connect the cables to the rear of your monitor/TV according to the numbers:

DV300

DV301B


Connect to PC

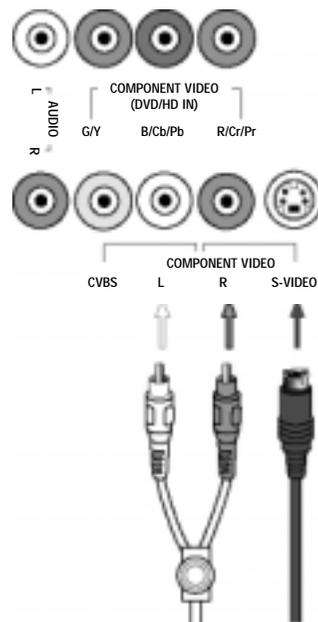
- Connect the cables to the back of your computer by following step 1-3.
- If your monitor displays the computer image the installation has been completed successfully.
- If installation was not successful, see the Troubleshooting section.



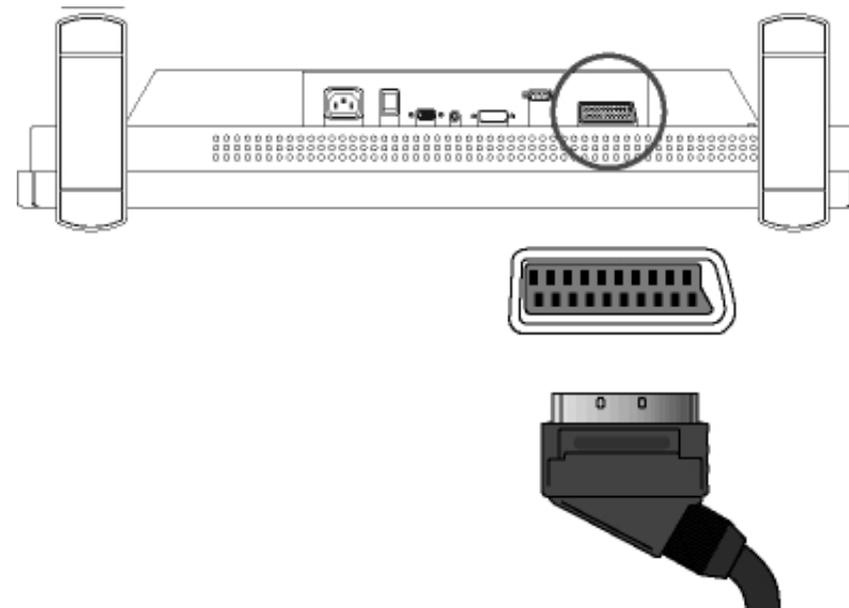
Connect to DVD/VCD/VCR

Connect to DVD/VCR/VCD through S-VIDEO

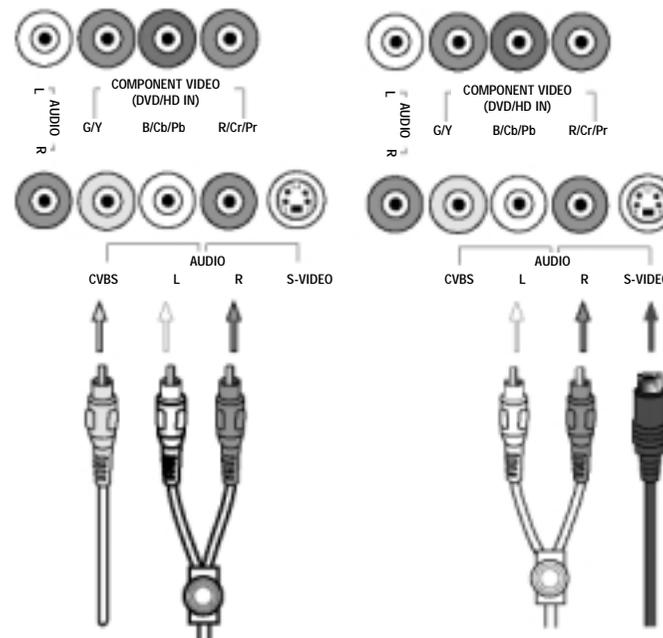
- Connect to DVD/VCR/VCD through S-VIDEO



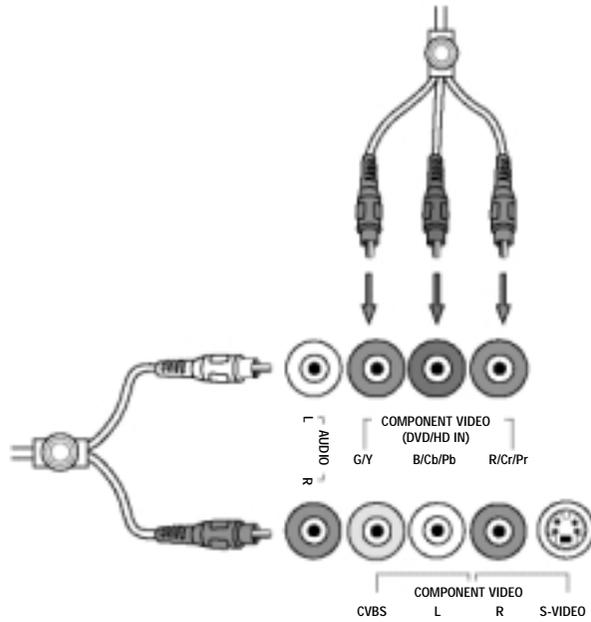
Connect to DVD/VCR /VCD through SCART (for Europe only)



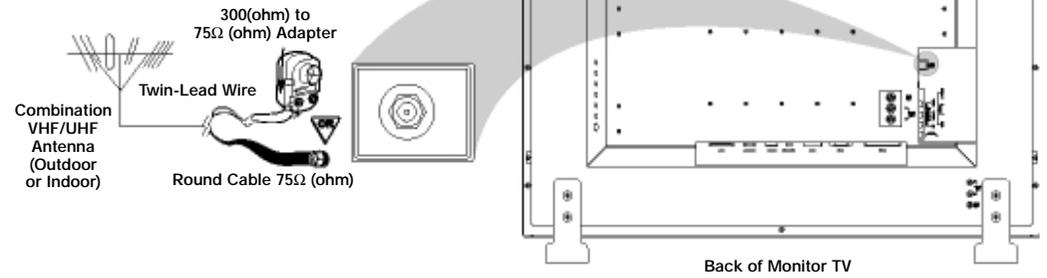
Connect to DVD/VCR /VCD through composite video (CVBS)



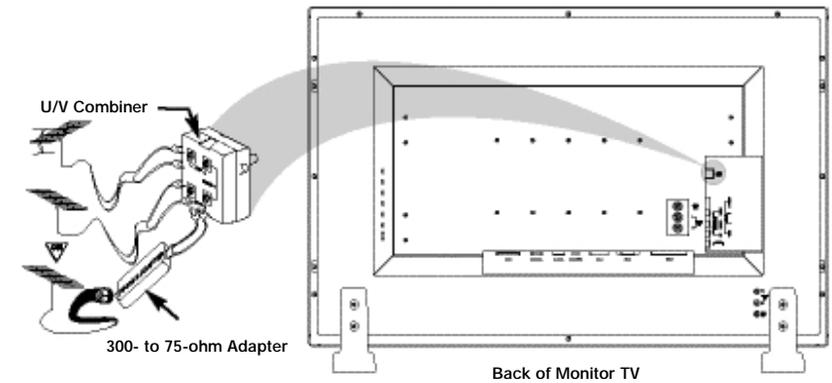
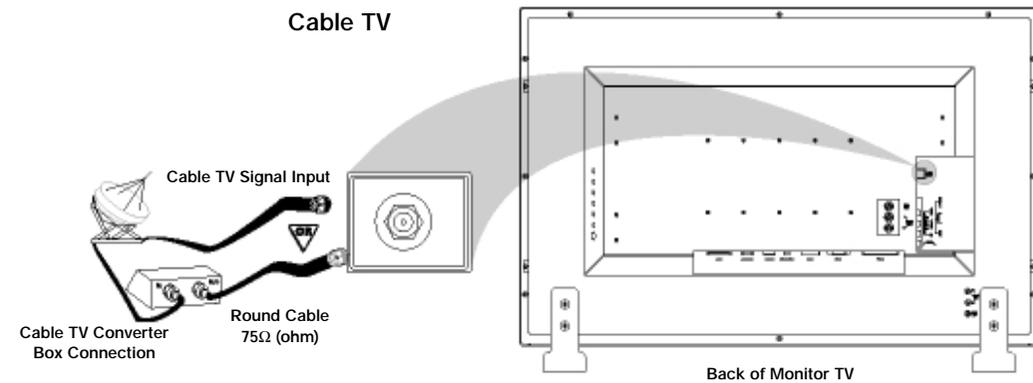
Connect to DVD/VCR /VCD through component video (YPbPr)



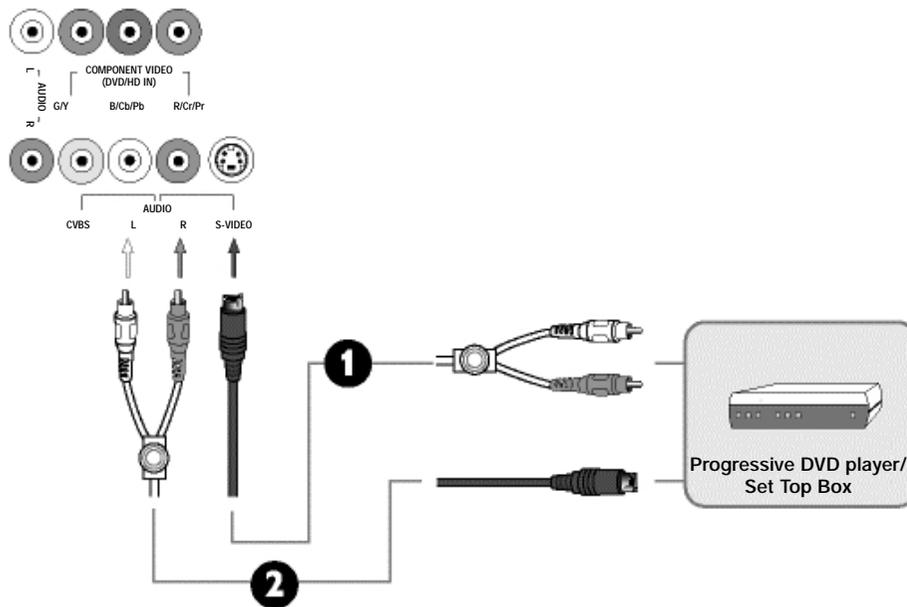
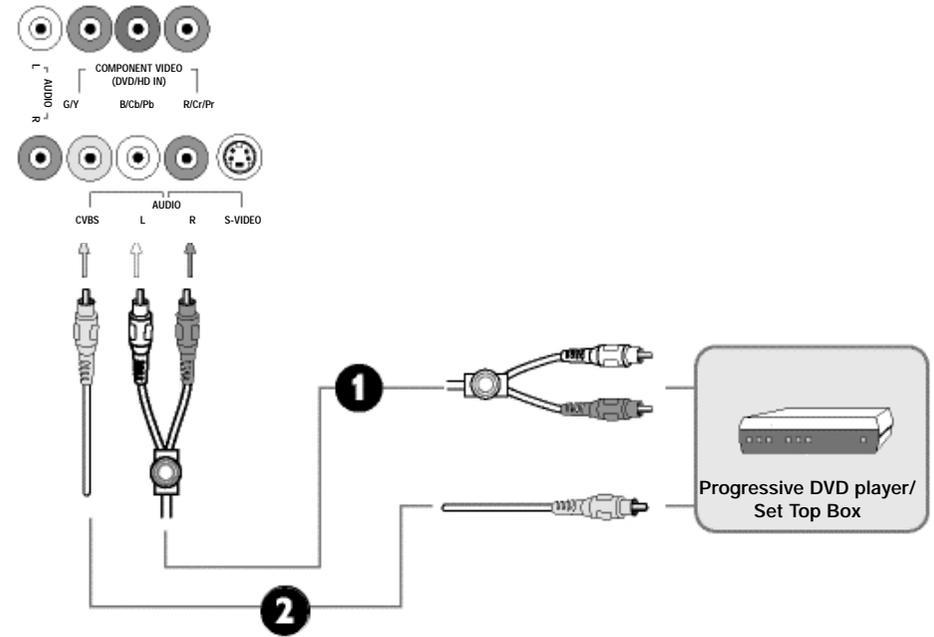
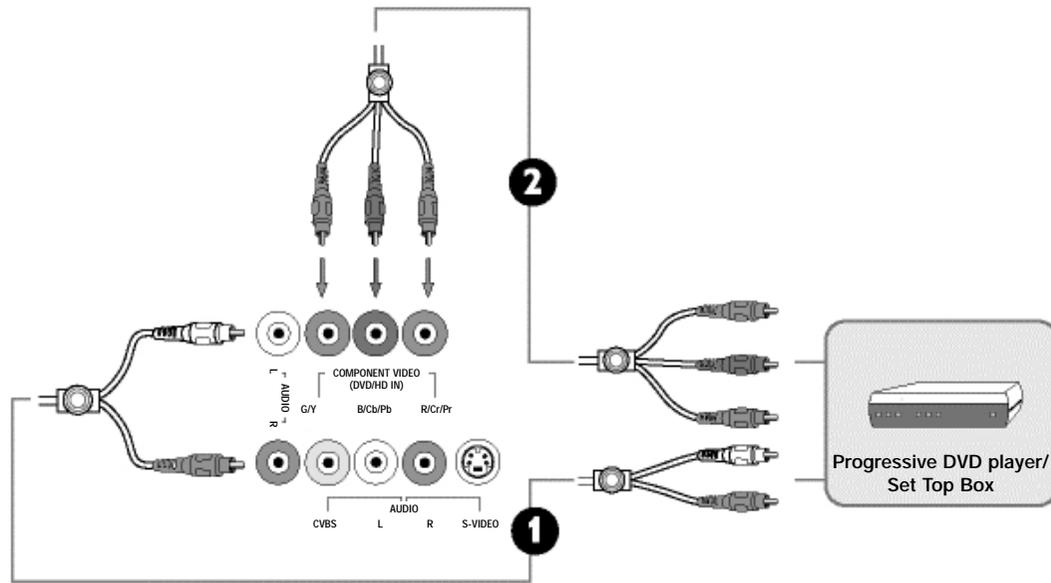
Antenna



Connecting to Cable TV



Progressive video and HDTV connections for digital high-definition picture



7. On Screen Display

On Screen Display Controls

An overall view of the On-Screen Display (OSD) structure is shown below. You can use it as a reference for further adjusting your Monitor/TV.

There are three different modes of OSD available for different models:

- PC Mode
- Audio/Video Mode
- TV Mode

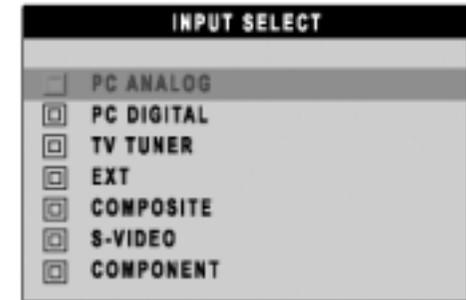
PC Mode

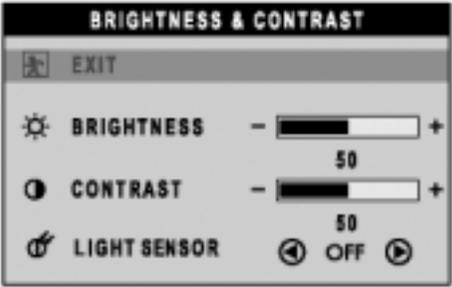


A Main Menu **B** Sub-Menu name **C** Menu icon

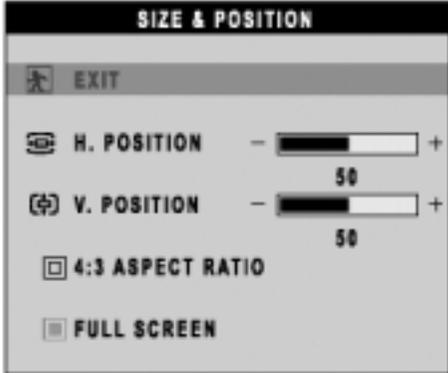
1. With the menu off, push the MENU button to enter OSD system and display the main menu.
2. Push the ▲ and ▼ buttons to move between the function icons. As you move from one icon to another, the function name will be highlighted.
3. Push the MENU button once to activate the highlighted function. Push ◀ or ▶ to select the preferred parameter; push the button to enter the selected one, then use the ◀ and ▶ buttons making your changes.
4. Push the **MENU** button to return the main menu or select another function.

Icon	Menu Name and Sub-menus	Description
	EXIT	This is used to exit out of the Main menu.
	INPUT SELECT	<p>Select video source for main display:</p> <ul style="list-style-type: none"> • PC ANALOG: PC VGA input • PC DIGITAL: PC DIGITAL input • TV TUNER: Antenna or cable TV input (For DV300 only) • EXT: Scart input (Europe Only) • COMPOSITE: Composite video input • S-VIDEO: S-video input • COMPONENT: Component video input



Icon	Menu Name and Sub-menus	Description
	BRIGHTNESS/CONTRAST	<p>The Brightness function: Push the ► button to increase luminance; push the ◀ button to decrease luminance (min 0 ~ max. 100).</p> <p>The Contrast function: Push the ► button to increase the contrast; push the ◀ button to decrease the contrast (min 0 ~ max. 100).</p> <p>The Light Sensor function: Push the ◀► buttons to toggle Light Sensor function. This function automatically fine tunes the brightness of the monitor according to the environment.</p> 

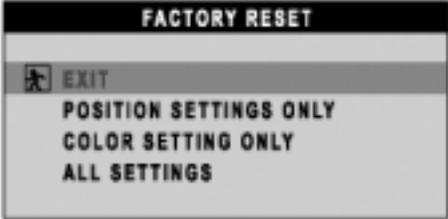
Icon	Menu Name and Sub-menus	Description
	AUDIO	<p>Select your preferred function.</p> <p>EXIT: Exit this menu</p> <p>TREBLE: Adjustable from 0 to 100</p> <p>BASS: Adjustable from 0 to 100</p> <p>BALANCE: Adjustable from 0 to 100</p> <p>VOLUME: Adjustable from 0 to 100</p> <p>SURROUND: ON/OFF</p> <p>MUTE: ON/OFF</p> <p>AUDIO SOURCE: Only in PC TV/VIDEO mode</p> <p>POWER SAVING: ON/OFF</p> 

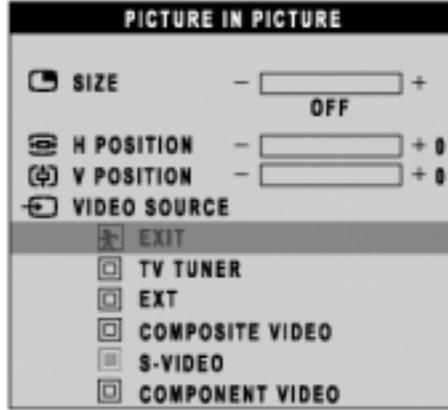
Icon	Menu Name and Sub-menus	Description
	SIZE & POSITION	<p>Positioning moves the viewing area around on the monitor screen.</p> <p>EXIT: Exit this menu</p> <p>H.POSITION /V.POSITION: When making changes to either the 'Horizontal' or 'Vertical' settings, the image will simply be shifted in response to your selection/change. Minimum is '0' (◀). Maximum is '100' (▶).</p> <p>4:3 ASPECT RATIO: Select 4:3 image display</p> <p>FULL SCREEN: Select full screen (16:9) image display</p>  <p></p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. When operating in DVI mode, the positioning adjustments are not available. 2. The 4:3 Aspect Ratio and Full Screen items are not available in WXGA 1280x768 modes.

Icon	Menu Name and Sub-menus	Description
	IMAGING SETTINGS	<p>To adjust the image settings.</p> <p>EXIT: Exit this menu</p> <p>AUTO ADJUST: Press to select automatic adjustment.</p> <p>PHASE: Use the ◀ and ▶ buttons to adjust from 0 to 100.</p> <p>PIXEL CLOCK: Use the ◀ and ▶ buttons to adjust from 0 to 100.</p>  <p></p> <p>Note: Operating in DVI mode, the Pixel Clock and Phase adjustments are not available.</p>

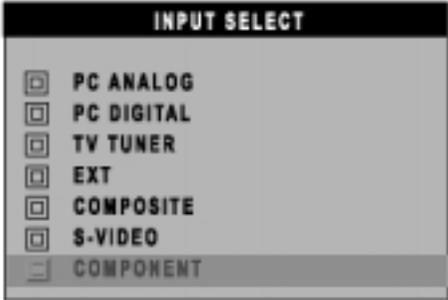
Icon	Menu Name and Sub-menus	Description
	COLOUR SETTINGS	<p>Colour Settings adjusts the colour temperature.</p> <p>EXIT: Exit this menu</p> <p>NATURE COLOUR: Equivalent to original panel colour.</p> <p>NORMAL COLOUR: 6500K (Same as sRGB) default from FACTORY</p> <p>BLUE PRESET: Equivalent to 9300K</p> <p>RED PRESET: Equivalent to 5700K</p> <p>USER PRESET: Adjust red, green, blue three colours from 0 to 100.</p>
		

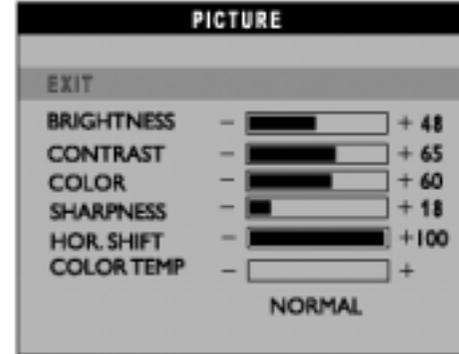
Icon	Menu Name and Sub-menus	Description
	OSD SETTINGS	<p>Each time the OSD opens, it displays in the same location on the screen. 'OSD Settings' (horizontal/vertical) provides control over this location.</p> <p>EXIT: Exit this menu</p> <p>HORIZONTAL: Adjustable from 0 to 100.</p> <p>VERTICAL: Adjustable from 0 to 100.</p> <p>OSD HOLD TIME: The OSD stays active for as long as it is in use. The range of time setting is from 5 to 60 seconds.</p> <p>OSD LOCK: Controls user access to adjustments. Show key icon after selecting lock.</p>
		
		 <p>Note: When the OSD is locked, pressing the menu button again and it will take user to OSD LOCK menu. Press (+) to unlock and allow user access to all applicable settings.</p>

Icon	Menu Name and Sub-menus	Description
	LANGUAGE	<p>LANGUAGE Language sets the OSD to display in one of the five or six languages provided. That is, English, Spanish, French, German, Italian and simplified Chinese (China model only)</p> 
	FACTORY RESET	<p>Reset the settings to the factory default values.</p> <p>EXIT: Exit this menu</p> <p>POSITION SETTINGS ONLY: Resume position setting to factory default.</p> <p>COLOUR SETTINGS ONLY: Resume colour setting to factory default.</p> <p>ALL SETTINGS: Load all factory default settings.</p> 

Icon	Menu Name and Sub-menus	Description
	PICTURE IN PICTURE	<p>Adjust picture in picture preferences.</p> <p>SIZE: Turn off and set the size of PIP. Users can chose your preferred size.</p> <ul style="list-style-type: none"> • OFF • SMALL • MEDIUM • LARGE <p>H POSITION: Adjust the Horizontal position of PIP.</p> <p>V POSITION: Adjust the Vertical position of PIP.</p> <p>VIDEO SOURCE: Select video source of PIP:</p> <ul style="list-style-type: none"> • EXIT • TV TUNER (For DV300 only) • EXT • COMPOSITE VIDEO • S-VIDEO • COMPONENT VIDEO 

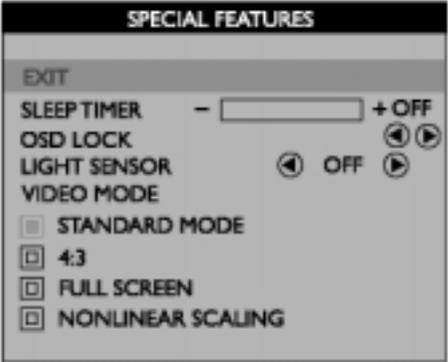
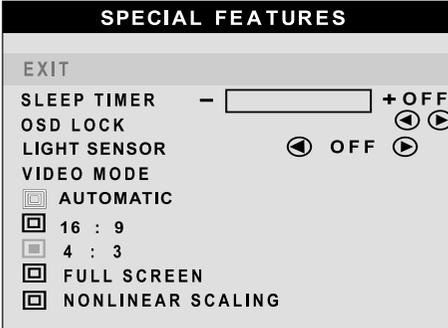
Audio/Video Mode

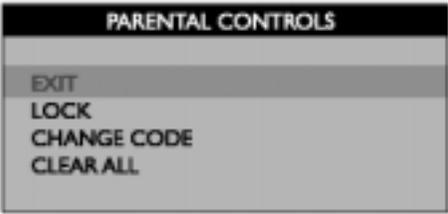
Icon	Menu Name and Sub-menus	Description
	EXIT	<p>Exit from this menu</p> 
	INPUT SELECT	<p>Use up and down arrow button to highlight the "INPUT SELECT".</p> <p>Select video source for main display:</p> <ul style="list-style-type: none"> • PC ANALOG: PC VGA input • PC DIGITAL: PC DIGITAL input • TV TUNER: Antenna or cable TV input (For DV300 only) • EXT: Scart input (Europe Only) • COMPOSITE: Composite video input • S-VIDEO: S-video input • COMPONENT: Component video input 

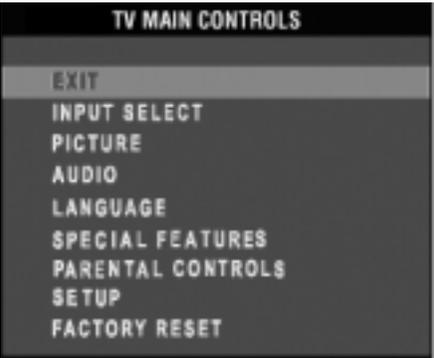
Icon	Menu Name and Sub-menus	Description
	PICTURE	<p>Adjust picture characteristics to suit personal preference.</p> <p>EXIT: Exit from this menu</p> <p>BRIGHTNESS: Adjustable from 0 to 100</p> <p>CONTRAST: Adjustable from 0 to 100</p> <p>COLOUR: Adjustable from 0 to 100</p> <p>SHARPNESS: Adjustable from 0 to 100</p> <p>TINT: Available in overseas models only. Adjustable from 0 to 100</p> <p>HORIZONTAL SHIFT: Adjustable from 0 to 100</p> <p>COLOUR TEMP: Select from Normal, Cool or Warm by "-" and "+" buttons.</p>  <p></p> <p>NOTE:</p> <ol style="list-style-type: none"> 1. "TINT" is not available in component input in all models. 2. "TINT" is available in NAFTA model only. 3. "HOR SHIFT" only function in component input.

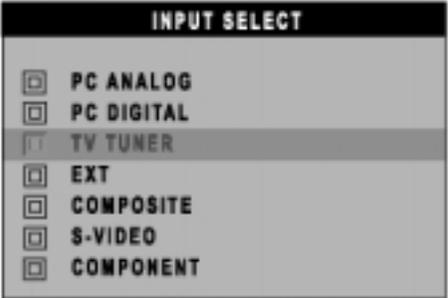
Icon	Menu Name and Sub-menus	Description
	AUDIO	Adjust audio characteristics to suit personal preference. EXIT: Exit from this menu. TREBLE: Adjustable from 0 to 100 BASS: Adjustable from 0 to 100 BALANCE: Adjustable from 0 to 100 VOLUME: Adjustable from 0 to 100 SURROUND: Switch Surround Sound On/ Off MUTE: Switch Mute On/ Off 

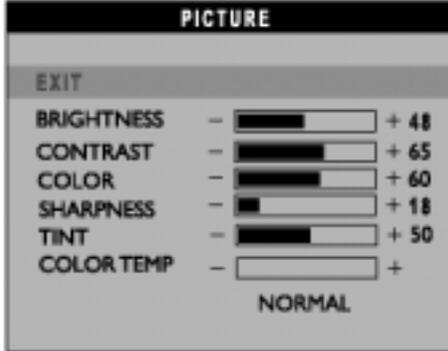
	LANGUAGE	Set language for OSD. There are 6 languages of OSD display. <ul style="list-style-type: none"> • ENGLISH • ESPANOL • FRANCAIS • DEUTSCH • ITALIANO • 中文   <p>NOTE: In AP/China models, Simplified Chinese is supported.</p>
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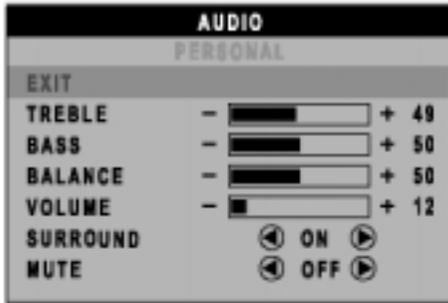
Icon	Menu Name and Sub-menus	Description
	SPECIAL FEATURES	Activate special control features: EXIT: Exit from this menu. SLEEP TIMER: Slide bar to select off/15/30/60/90/120/150/180. OSD LOCK: Show key icon after selecting lock. LIGHT SENSOR: Push the ◀▶ buttons to toggle Light Sensor function. VIDEO MODE: Set the screen scaling mode to suit personal preference: FOR DV301B <ul style="list-style-type: none"> • STANDARD MODE • 4:3 • FULL SCREEN • NONLINEAR SCALING  FOR DV300 <ul style="list-style-type: none"> • AUTOMATIC • 16:9 • 4:3 • FULL SCREEN • NONLINEAR SCALING 

Icon	Menu Name and Sub-menus	Description
	PARENTAL CONTROLS	<p>1) When users first enter the PARENTAL CONTROLS, the screen will show the window asking user key in the code.</p>  <p>2) Users will see the window "Access code" when they enter this function.</p> <ul style="list-style-type: none"> • EXIT • LOCK • CHANGE CODE • CLEAR ALL  <p>3) Enter Master code "0711" twice or the code entered in step 1.</p> 

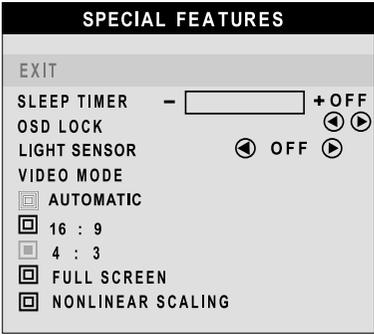
Icon	Menu Name and Sub-menus	Description
	FACTORY RESET	<p>Reset the setting to default values.</p> <p>NO: Keep the setting as current.</p> <p>YES: Load factory setting</p> 
	TV Mode (DV300 Only)	<p>Exit from this menu</p> 

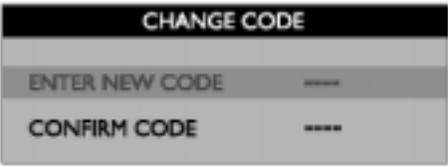
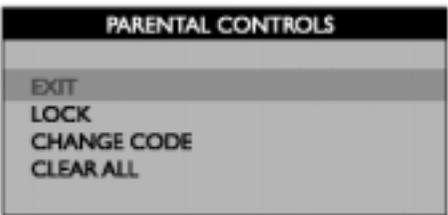
Icon	Menu Name and Sub-menus	Description
	INPUT SELECT	<p>Select video source for main display:</p> <ul style="list-style-type: none"> • PC ANALOG: PC VGA input • PC DIGITAL: PC DIGITAL input • TV TUNER: Antenna or cable TV input • EXT: Scart input (Europe only) • COMPOSITE: Composite video input • S-VIDEO: S-video input • COMPONENT: Component video input
		

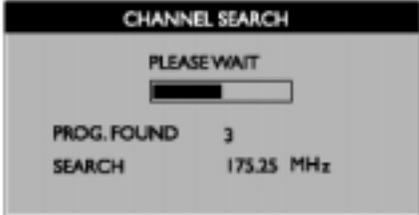
Icon	Menu Name and Sub-menus	Description
	PICTURE	<p>Adjust picture characteristics to suit personal preference.</p> <p>EXIT: Exit from this menu</p> <p>BRIGHTNESS: Adjustable from 0 to 100</p> <p>CONTRAST: Adjustable from 0 to 100</p> <p>COLOUR: Adjustable from 0 to 100</p> <p>SHARPNESS: Adjustable from 0 to 100</p> <p>TINT: Not available in component input. Adjustable from 0 to 100</p> <p>COLOUR TEMP: Select from Normal, Cool or Warm by "-" and "+" buttons.</p>
		
		 <p>NOTE:</p> <ol style="list-style-type: none"> 1. "TINT" is not available in component input in all models. 2. "TINT" is available in overseas model only.

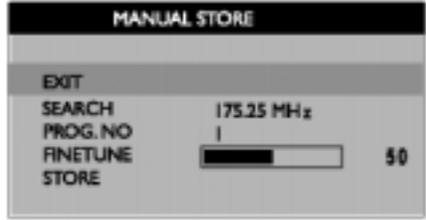
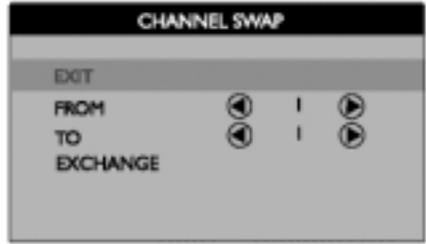
Icon	Menu Name and Sub-menus	Description
	AUDIO	Adjust audio characteristics to suit personal preference. EXIT: Exit from this menu. TREBLE: Adjustable from 0 to 100 BASS: Adjustable from 0 to 100 BALANCE: Adjustable from 0 to 100 VOLUME: Adjustable from 0 to 100 SURROUND: Switch Surround Sound On/ Off MUTE: Switch Mute On/ Off
		

Icon	Menu Name and Sub-menus	Description
	LANGUAGE	Set language for OSD. There are 6 languages of OSD display. <ul style="list-style-type: none"> • ENGLISH • ESPANOL • FRANCAIS • DEUTSCH • ITALIANO * 中文
		 <p>NOTE: In AP/China models, Simplified Chinese is supported.</p> 

Icon	Menu Name and Sub-menus	Description
	SPECIAL FEATURES	<p>Activate special control features:</p> <p>EXIT: Exit from this menu.</p> <p>SLEEP TIMER: Slide bar to select off/15/30/60/90/120/150/180.</p> <p>OSD LOCK: Show key icon after selecting lock.</p> <p>LIGHT SENSOR: Push the ◀▶ buttons to toggle Light Sensor function.</p> <p>VIDEO MODE: Set the screen scaling mode to suit personal preference:</p> <ul style="list-style-type: none"> • AUTOMATIC • 16:9 • 4:3 • FULL SCREEN • NONLINEAR SCALING
		

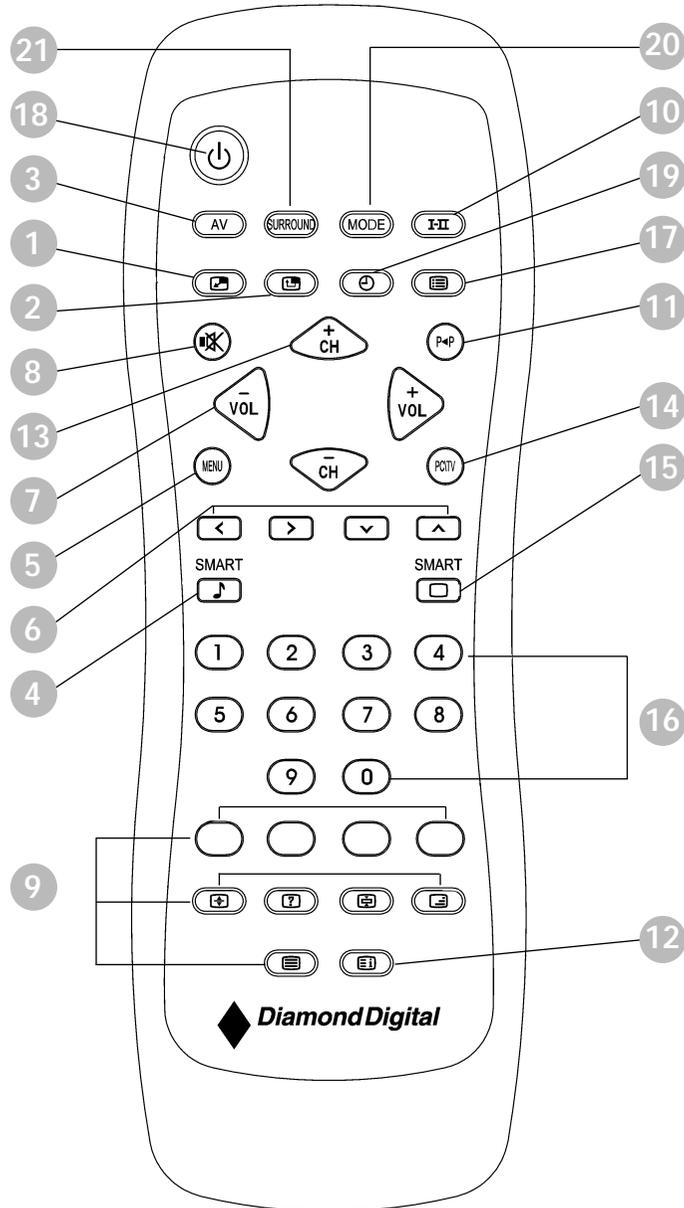
Icon	Menu Name and Sub-menus	Description
	PARENTAL CONTROLS	<p>1) When users first enter the PARENTAL CONTROL, the screen will show the window asking user key in the code.</p>  <p>2) Users will see the window " Access code" when they enter this foundation.</p> <ul style="list-style-type: none"> • EXIT • LOCK • CHANGE CODE • CLEAR ALL  <p>3) Enter Master code "0711" twice or the code entered in step 1.</p> 

Icon	Menu Name and Sub-menus	Description
	SETUP	
	SYSTEM:	 <p></p> <p>NOTE: The SYSTEM item is only available in Western Europe model.</p>
	CHANNEL SEARCH:	

Icon	Menu Name and Sub-menus	Description
	MANUAL STORE:	
	CHANNEL SKIP:	
	CHANNEL SWAP:	
	FACTORY RESET	<p>Reset the setting to default values. NO: Keep the setting as current. YES: Load factory setting</p> 

8. Remote Control

Remote Control Diagram



1	PIP On/Off, Size	To activate or close the 'Picture in Picture' function in PC mode and to enlarge or reduce the PIP window size using the same button.
2	PIP Shift	To change 'Picture in Picture' window position in PC mode
3	AV source	To select TV/Video sources in PIP mode and TV mode If using TV 'STANDBY', press this button to return to 'ON'
4	Smart sound controls	To access a series of settings: VOICE, MUSIC, THEATRE and PERSONAL
5	Menu	To turn on or off the OSD (On-Screen Display). To select function in OSD.
6	Cursor	To move the cursor up /down/right/left to scroll through a list of options Cursor right To access the sub-menus and adjust the settings with cursor left Cursor down To select the next item on the menu, and return to the last item with cursor up
7	Volume	To adjust the sound level
8	Mute	To disable sound. To restore sound, press button again.
9	Teletext features	Works only in areas where the Teletext service is available
10	Sound mode	To switch from STEREO to MONO or to choose between Dual I and Dual II for bilingual transmissions. For TV sets fitted with NICAM reception, depending on the transmission, you can switch from NICAM STEREO to MONO or choose between NICAM DUAL I, NICAM DUAL II and MONO. If using Teletext, press this button to display dual pages on screen.
11	Previous program	To access the last program viewed.
12	Screen information	To display the program number, the video mode and the sound mode.
13	Selecting TV programs	To move up or down a program. The number and the sound mode are displayed for a few seconds.
14	PC/TV mode selection	To select PC or TV mode.
15	Smart picture controls	To select your desired picture setting from 5 settings: MOVIES, SPORTS, WEAK SIGNAL, MULTIMEDIA and PERSONAL.

16	Numerical keys	For direct access to programs. For a 2-digit program number, the 2nd digit must be entered before the dash disappears.
		If using TV 'STANDBY', press any of number keys to return to 'ON'
17	OSD	To show OSD status.
18	Standby	To set the TV temporarily to standby mode. To switch on the TV set, press Program button (p -, +), any digit between 0 and 9 or AV source button (The amber light indicates when set is in standby mode)
19	Sleep timer	To select the period of time after which the set will switch automatically to standby mode (up to 180 minutes)
20	Mode	Switch among available video modes
21	Surround	Toggle surround sound on/off

9. Troubleshooting

This page deals with problems that can be corrected by the user. If the problem still persists after you have tried these solutions, contact your nearest Diamond Digital dealer.

Common Problems

Symptoms	Having this problem?	Check these items
No Video/ Power LED off	No picture, the LCD Monitor TV is dead	<ul style="list-style-type: none"> • Check connection integrity at both ends of the video cable and/or power cord. • Electric outlet verification • Ensure AC power at the rear of the monitor is switched on.
No Video/ Power LED on	No picture or brightness	<ul style="list-style-type: none"> • Increase brightness and contrast controls. • Perform the LCD Monitor TV self-test feature check. • Check for bent or broken pins in video cable connector.
Poor Focus	Picture is fuzzy, blurry or ghosting	<ul style="list-style-type: none"> • Auto adjust image through Menu -> Image Setting -> AutoAdjust. • Adjust Phase and Clock controls via OSD. • Eliminate video extension cables. • Perform the LCD Monitor TV factory reset (via Menu -> Factory Reset -> All Settings). • Lower video resolution or increase font size.
Shaky/Jittery Video	Wavy picture or fine movement	<ul style="list-style-type: none"> • Auto adjust image through Menu -> Image Setting -> Auto Adjust • Adjust Phase and Clock controls via OSD • Perform the LCD Monitor TV factory reset (via Menu -> Factory Reset -> All Settings) • Check environmental factors • Relocate and test in other room
Missing Pixels	LCD screen has spots	<ul style="list-style-type: none"> • Cycle power on-off • These are pixels that are permanently off and is a natural defect that occurs in LCD technology
Stuck-on Pixels	LCD screen has bright spots	<ul style="list-style-type: none"> • Cycle power on-off • These are pixels that are permanently on and is a natural defect that occurs in LCD technology

Symptoms	Having this problem?	Check these items
Brightness Problems	Picture too dim or too bright	<ul style="list-style-type: none"> Perform the LCD Monitor TV factory reset (via Menu -> Factory Reset -> All Settings) Auto adjust image through Menu -> Image Setting -> Auto Adjust Adjust brightness & contrast controls  <p>Note: When operating in DVI mode, the contrast adjustment is not available.</p>
Geometric Distortion	Screen not centered correctly	<ul style="list-style-type: none"> Perform the LCD Monitor TV reset on "Position Settings Only" Auto adjust image through Menu -> Image Setting -> Auto Adjust Adjust the centering controls Ensure the LCD Monitor TV is in proper video mode  <p>Note: When operating in DVI mode, the positioning adjustments are not available.</p>
Horizontal/Vertical Lines	Screen has one or more lines	<ul style="list-style-type: none"> Perform the LCD Monitor TV reset Auto adjust image through Menu -> Image Setting -> Auto Adjust Adjust Phase and Clock controls via OSD Perform the LCD Monitor TV self-test feature check and determine if these lines are also in self-test mode Check for bent or broken pins in the video cable connector  <p>Note: When operating in DVI mode, the Pixel Clock and Phase adjustments are not available.</p>
Sync Problems	Screen is scrambled or appears torn	<ul style="list-style-type: none"> Perform the LCD Monitor TV reset Push Auto Adjust button Adjust Phase and Clock controls via OSD Perform the LCD Monitor TV self-test feature check to determine if scrambled screen appears in self-test mode Check for bent or broken pins Boot up in the "safe mode"

Symptoms	Having this problem?	Check these items
LCD Scratched	Screen has scratches or smudges	<ul style="list-style-type: none"> Turn the LCD Monitor off and clean the screen
Safety Related Issues	Visible signs of smoke or sparks	<ul style="list-style-type: none"> Do not perform any troubleshooting steps The LCD Monitor needs to be repaired
Intermittent Problems	The LCD Monitor malfunctions on & off	<ul style="list-style-type: none"> Ensure the LCD Monitor is in proper video mode Ensure video cable connection between computer and the LCD monitor is secured Perform the LCD Monitor factory reset (via Menu -> Factory Reset -> All Settings) Perform the LCD Monitor self-test feature check to determine if the intermittent problem occurs in self-test mode
TV and Audio Problems		
Poor TV signal reception	Abnormal picture seen from the screen	<ul style="list-style-type: none"> The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your pictures: see 'fine tuning' or adjust the direction of the outside aerial. For Asia users in non-NTSC area: Does your antenna enable you to receive broadcasts in this frequency range (UHF or VHF band)? In the event of difficult reception (snowy pictures) switch the NR on the PICTURE menu to ON.
No TV picture	No picture when TV input was selected	<ul style="list-style-type: none"> Have you connected the aerial socket properly? Have you chosen the right system? Poorly connected SCART cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the LCD Monitor TV set is moved or turned). Check all connections.
No sound	No sound output when a program with sound was playing	<ul style="list-style-type: none"> Ensure that the audio cables are firmly connected to both the audio input connectors on your the LCD Monitor TV and audio output connectors on your PC or Video player. If on certain TV channels you receive a picture but no sound, this means that you do not have the correct TV system. Modify the SYSTEM setting.
Video Problems		
No Video	No signal indicator is displayed	<ul style="list-style-type: none"> Check Video Input Selection Composite: Yellow coloured RCA jack S-Video: Typically a round 4 pin jack Component: Typically 3 RCA jacks of Green, Red and Blue.

Symptoms	Having this problem?	Check these items
Cont.		<ul style="list-style-type: none"> • Make sure you did not plug the video cable to video output port behind the LCD monitor TV.
Low Quality DVD connection	Picture not crisp and some colour distortion	<ul style="list-style-type: none"> • Check DVD connection • Composite gives good picture • S-Video gives better picture • Component gives best picture
No sound	See video but no audio	<ul style="list-style-type: none"> • Check if the LCD Monitor volume is turned off or muted. • Connect the audio cable securely. • Audio cable is connected incorrectly. • Verify that the audio source is selected correctly in the OSD.

Remote Control Problems

Remote control does not work properly	No response from the LCD Monitor TV when remote is pressed	<ul style="list-style-type: none"> • Point the remote control directly at the remote sensor on the LCD Monitor. • Replace both batteries with new ones. • Make sure the remote control is not disabled (for disable/enable the remote control, please refer to the section of Remote Control).
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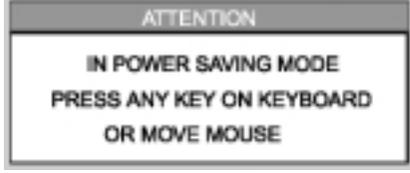
Product Specific Problems

Screen image is too small	Image is centred on screen, but does not fill entire viewing area	<ul style="list-style-type: none"> • Perform the LCD Monitor factory reset (via Menu -> Factory Reset -> All Settings).
Cannot adjust the LCD Monitor with the buttons at the side of the unit	OSD does not appear on the screen	<ul style="list-style-type: none"> • Turn the LCD Monitor off and unplug the power cord and then plug back and power on .

For further assistance, refer to the Service Contacts list and contact your local Diamond Digital distributor.

OSD Warning Messages

A warning message may appear on the screen indicating the LCD Monitor current status.

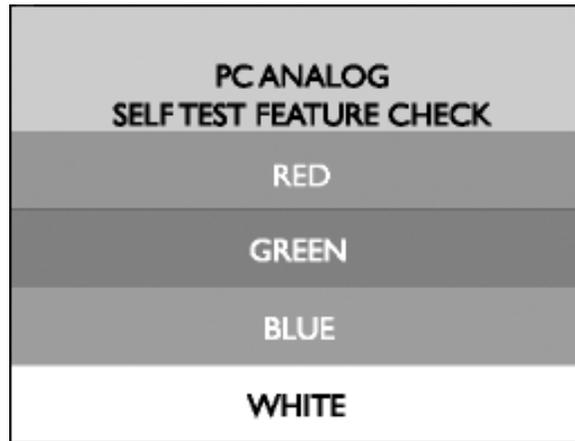
	When user sees this warning message, it means that the LCD Monitor is in adjustment process.
	<p>A warning message may appear on the screen indicating that the LCD Monitor is out of sync range.</p> <p>See Specifications for the Horizontal and Vertical frequency ranges addressable by this the LCD Monitor. Recommended mode is 1280x 768 @ 60Hz.</p>
	This message means that there is no video input signal.
	The LCD Monitor is in a power saving mode (in PC mode).
	The main OSD menu is unlocked.
	The main OSD menu is locked.

Self-Test Feature Check (STFC)

Your the LCD Monitor when used as a computer display through DVI and/or VGA connection provides a self-test feature that allows you to check whether your LCD Monitor TV is functioning properly. If your LCD Monitor and computer are properly connected but the LCD Monitor screen remains dark, run the LCD Monitor self-test by performing the following steps:

1. Turn off both your computer and the LCD Monitor.
2. Unplug the video cable from the back of the computer. To ensure proper Self-Test operation, remove both Digital (white connector) and the Analogue (blue connector) cables from the back of computer.
3. Turn on the LCD Monitor.

The floating 'Self-test Feature Check' dialog box should appear on-screen (against a black background) if the LCD Monitor cannot sense a video signal and is working correctly. While in self-test mode, the power LED remains green and the self-test pattern will scroll through the screen continually.


10. FAQ's
General FAQ's

Q: When I install my monitor what should I do if the screen shows 'Cannot display this video mode'?

- A: Recommended video mode is 1280x768 @60Hz.
1. Unplug all cables, then connect your PC to the monitor you used previously, which displayed correctly.
 2. In the Windows Start Menu, select Settings/Control Panel. In the Control Panel Window, select the Display icon. Inside the Display Control Panel, select the 'Settings' tab. Under the settings tab, in a box labelled 'desktop area', move the slide bar to 1280x768 pixels.
 3. Open 'Advanced Properties' and set the Refresh Rate to 60Hz, then click OK.
 4. Restart your computer and repeat steps 2 and 3 to verify that your PC is set at 1280x768@60Hz.
 5. Shut down your computer, disconnect your old monitor and reconnect your Diamond Digital LCD monitor.
 6. Turn on your monitor and then turn on your PC.

Q: How do I adjust the resolution?

- A: Your video card/graphic driver and monitor together determine the available resolutions. You can select the desired resolution under the Control Panel of Windows® 95/98, Me, 2000 or XP, and with the 'Display properties/Settings'.

Q: What if I get lost while I am making monitor adjustments?

- A: Simply press the MENU button, then select 'Factory Reset/All Settings' to recall all of the original factory settings.

Q: My Monitor has no power (Power LED does not light up). What should I do?

- A: Make sure the power cord is connected to the Monitor. Also, be sure the AC power switch at the rear of the monitor is at 'ON' position.

Q: Will the product accept an Interlaced signal?

- A: No. If an Interlaced signal is used, the screen displays both odd and even horizontal scanning lines at the same time, thus distorting the picture.

Q: What does the Refresh Rate mean for LCD?

- A: Unlike CRT display technology, in which the speed at which the electron beam is swept from the top to the bottom of the screen determines flicker, an active matrix display uses an active element (TFT) to control each individual pixel and the refresh rate is therefore not really applicable to LCD technology.

Q: Will the LCD screen be resistant to scratches?

- A: A protective coating is applied to the surface of the LCD, which is durable to a certain extent (up to 3H in this Diamond Digital 30" LCD monitor). In general, it is recommended that the panel surface is not subjected to any excessive shocks or scratches.

Q: How should I clean the LCD surface?

- A: For normal cleaning use a clean, soft cloth. For extensive cleaning, please use isopropyl alcohol. Do not use other solvents such as ethyl alcohol, ethanol, acetone, hexane, etc.

Q: Can the Diamond Digital LCD Monitor be mounted on the wall or used as a touch panel?

A: Yes, Diamond Digital LCD monitors have this optional feature. The standard VESA mount holes on the back cover allow the user to mount the Diamond Digital monitor on any VESA standard ARM or accessories. Touch panels are being developed for future applications. Check with your Diamond Digital sales representative for more information.

Screen Adjustments**Q: When I install my monitor, how do I get the best performance from the monitor?**

A: For best performance, make sure your display settings are set at 1280x768@60Hz. Note: You can check the current display settings by pressing the OSD OK button once. The current display mode is shown in the product information in the OSD main controls.

Q: How do LCDs compare with CRTs in terms of radiation?

A: Unlike CRT, the LCDs do not use an electron gun, so they do not generate the same amount of radiation at the screen surface.

Compatibility with other Peripherals**Q: Can I connect my LCD monitor to any PC, workstation or Mac?**

A: Yes, all Diamond Digital LCD monitors are fully compatible with standard PCs, Macs and workstations. You may need a cable adapter to connect the monitor to your Mac system. Please contact your dealer/retailer for more information.

Q: Are Diamond Digital LCD monitors Plug-and-Play?

A: Yes, the monitors are Plug-and-Play compatible with Windows® 95, 98, 2000, XP platforms.

Q: What is a TV System?

A: Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I and L L'. The SYSTEM setting is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. PAL is used in Australia and the majority of European countries, Secam in France, the CIS and the majority of African countries. The United States and Japan use a different system called NTSC.

Q: What is SCART?

A: The SCART is a 20-pin rectangular connector fitted to the vast majority of PAL market TV receivers. It provides composite video inputs and outputs, stereo audio in and out, and RGB input. It is also known as Euro connector and PERI-tel.

Q: What are S-VIDEO Signals?

A: These are 2 separate Y/C video signals from the S-VIDEO and Hi-8 recording standards. The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape. This provides a better picture quality than is achieved with standard video (VHS and 8mm) where the Y/C signals are combined to provide only one video signal.

LCD Panel Technology**Q: What is a Liquid Crystal Display?**

A: A Liquid Crystal Display (LCD) is an optical device that is commonly used to display ASCII characters and images on digital items such as watches, calculators, portable game consoles, etc. LCD is the technology used for displays in notebooks and other small computers. Like light-emitting diode and gas-plasma technologies, LCD allows displays to be much thinner than cathode ray tube (CRT) technology. LCD consumes much less power than LED and gas-display displays because it works on the principle of blocking light rather than emitting it.

Q: How are LCDs made?

A: LCDs are created from two glass plates separated from each other at a distance of a few microns. The plates are filled with liquid crystal and then sealed together. The top plate is coloured with an RGB pattern to make the colour filter. Polarizers are then glued to both plates. This combination is sometimes called 'glass' or 'cell.' The LCD cell is assembled into a 'module' by adding the backlight, driver electronics and frame.

Q: What is polarization?

A: Polarization is basically directing light to shine in one direction. Light is electromagnetic waves. Electric and magnetic fields oscillate in a direction perpendicular to the propagation of the light beam. The direction of these fields is called the 'polarization direction'. Normal or non-polarized light has fields in several directions; polarized light has a field in only one direction.

Q: What differentiates passive matrix LCDs from active matrix LCDs?

A: An LCD is made with either a passive matrix or an active matrix display grid. An active matrix has a transistor located at each pixel intersection, requiring less current to control the luminance of a pixel. For this reason, the current in an active matrix display can be switched on and off more frequently, improving the screen refresh time (your mouse pointer will appear to move more smoothly across the screen, for example). The passive matrix LCD has a grid of conductors with pixels located at each intersection in the grid.

Q: How does a TFT LCD Panel work?

A: On each column and row of the TFT LCD panel a data source drive and a gate drive are attached respectively. The TFT drain of each cell is connected to the electrode. The molecular arrangement of liquid crystal elements differs according to whether it is impressed with voltage or not. It varies the direction of polarized light and the amount of light by letting it through different arrays of liquid crystal elements. When two polarized filters are arranged vertically on a polarized light pole, the light that passes through the upper polarized panel is turned 90 degrees along with the spiral structure of the liquid crystal molecules and goes through the polarized filter at the bottom. When impressed with voltage, liquid crystal molecules are arranged vertically from the original spiral structure and the direction of the light is not turned through 90 degrees. In this case, light that comes through the top polarized panel may not go through the polarized panel at the bottom.

Q: What are the advantages of TFT LCD compared with CRT?

A: In a CRT monitor, a gun shoots electrons and general light by colliding polarized electrons on fluorescent glass. Therefore, CRT monitors basically operate with an analogue RGB signal. A TFT LCD monitor is a device that displays an input image by operating a liquid crystal panel. The TFT has a fundamentally different structure than a CRT: Each cell has an active matrix structure and independent active elements. A TFT LCD has two glass panels and the space between them is filled in with liquid crystal. When each cell is connected with electrodes and impressed with voltage, the molecular structure of the liquid crystal is altered and controls the amount of inlet lighting to display images. A TFT LCD has several advantages over a CRT, since it can be very thin and no flickering occurs because it does not use the scanning method.

Q: Why is a vertical frequency of 60Hz optimal for an LCD monitor?

A: Unlike a CRT monitor, the TFT LCD panel has a fixed resolution. For example, an XGA monitor has 1024x3 (R, G, B) x 768 pixels and a higher resolution may not be available without additional software processing. The panel is designed to optimise the display for a 65MHz dot clock, one of the standards for XGA displays. Since the vertical/horizontal frequency for this dot clock is 60Hz/48kHz, the optimum frequency for this monitor is 60Hz.

Q: What kind of wide-angle technology is available? How does it work?

A: The TFT LCD panel is an element that controls/displays the inlet of a backlight using the dual refraction of a liquid crystal. Using the property that the projection of inlet light refracts toward the major axis of the liquid element, it controls the direction of inlet light and displays it. Since the refraction ratio of inlet light on liquid crystal varies with the inlet angle of the light, the viewing angle of a TFT is much narrower than that of a CRT. Usually, the viewing angle refers to the point where the contrast ratio is 10. Many ways to widen the viewing angle are currently being developed and the most common approach is to use a wide viewing angle film, which widens the viewing angle by varying the refraction ratio. IPS (In Plane Switching) or MVA (Multi Vertical Aligned) is also used to give a wider viewing angle.

Q: Why is there no flicker on an LCD Monitor?

A: Technically speaking, LCDs do flicker, but the cause of the phenomenon is different from that of CRT monitor — and it has no impact of the ease of viewing. Flickering in an LCD monitor relates to usually undetectable luminance caused by the difference between positive and negative voltage. On the other hand, CRT flickering that can irritate the human eye occurs when the on/off action of the fluorescent object becomes visible. Since the reaction speed of liquid crystal in an LCD panel is much slower, this troublesome form of flickering is not present in an LCD display.

Q: Why is an LCD monitor virtually free of Electro Magnetic Interference?

A: Unlike a CRT, an LCD monitor does not have key parts that generate Electro Magnetic Interference, especially magnetic fields. Also, since an LCD display utilizes relatively low power, its power supply is extremely quiet.

11. Technical Specifications

LCD PANEL

• Type	TFT LCD
• Screen size	29.5 inch
• Pixel Pitch	0.5025 x 0.1675 mm x RGB
• LCD Panel type	1280 x 768 pixels R.G.B. vertical stripe Hard coating surface, anti-glare polarizer
• Effective viewing area	(H) 643.2 x (V) 385.92mm
• Display Colours	8 bits interface (16.7M colours)

PC SCANNING

• Vertical refresh rate	56Hz-61Hz
• Horizontal frequency	31kHz-63kHz

PC VIDEO

• Video dot rate	< 80 MHz
• Input impedance - Video - Sync	75 ohm 2.2K ohm
• Input signal levels	0.7 Vpp
• Sync input signal	Separate sync
• Sync polarities	Positive and negative
• Input Frequency	WXGA Hsync 48 kHz, Vsync 60 Hz (N.I.) SVGA Hsync 38 kHz, Vsync 60 Hz (N.I.) VGA Hsync 31 kHz, Vsync 60 Hz (N.I.)

• Video interface	D-sub, S-Video, TV-RF, SCART (Europe) or composite and components video (others)
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AUDIO

• Input level for PC/SVHS/SCART	500 mV nominal
• Loudspeaker	5W Stereo Audio (2.5W/channel RMS x2, 200Hz~10kHz, 4 ohm, 10% THD)

OPTICAL CHARACTERISTICS

• Contrast ratio	500:1 (typ.)
• Brightness	500 cd/m ² (typ.)
• White Chromaticity	x: 0.283 y: 0.297 (at 9300°K) x: 0.313 y: 0.329 (at 6500°K) x: 0.328 y: 0.344 (at 5700°K)
• Viewing Angle	(C/R >5) Upper >88° (typ.) Lower >88° (typ.) Left >88° (typ.) Right >88° (typ.)
• Response time	<=16ms (typ.)

sRGB

sRGB is a standard for ensuring correct exchange of colours between different devices (e.g. digital cameras, monitors, printers, projectors, scanners, etc.).

Using a standard unified color space, sRGB will help represent pictures taken by an sRGB compatible device correctly on your sRGB enabled Diamond Digital monitor. In that way, the colours are calibrated and you can rely on the correctness of the colours shown on your screen.

Important with the use of sRGB is that the brightness and contrast of your monitor is fixed to a predefined setting as well as the colour gamut. Therefore it is important to select the sRGB setting in the monitor's OSD.

To do so, at PC mode, open the OSD by pressing the MENU button of your monitor. Use the down button to go to COLOR SETTINGS and press MENU again. Then move the down button to go to NORMAL COLOR and press MENU again.

For more information on sRGB, please visit: www.srgb.com

* This data is subject to change without notice.

Resolution & Preset Modes

- Recommended 1280 x 768 at 60Hz

10 factory preset modes:

	Resolution	Mode	H. freq (kHz)	V. freq (Hz)
PC	640x480	VGA VESA 60	31.469	59.940
	800x600	SVGA VESA 60	37.879	60.317
	1024x768	XGA VESA 60	48.363	60.004
	1280x768	GTF 60	47.700	60.000
Video	EDTV	480P	31.470	60.000
	SDTV	480i	15.734	59.940
	EDTV	576P	31.250	50.000
	SDTV	576i	15.625	50.000
	HDTV	1080i	33.750	60.000
	HDTV	720P	45.000	60.000

Automatic Power Saving

If you have VESA DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If an input from a keyboard, mouse or other input device is detected, the monitor will then 'wake up' automatically. The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition					
VESA Mode	Video	H-sync	V-sync	Power Used	LED colour
ON	Active	Pulse	Pulse	130W (typ.)	Blue
OFF	Blanked	No	No	< 5W	Amber
AC OFF	Blanked	No	No	< 2W	Off

Physical Specifications

• Dimension (WxHxD) *	867.7mm x 505mm x 183mm (incl. Pedestal, Speakers) 726.7mm x 469.3mm x 115mm (w/o Pedestal, Speakers)
• Weight	16.0 kg (incl. Pedestal, Speakers) 14.0 kg (w/o Pedestal, Speakers)
• Power supply	90 — 264 VAC, 50/60 Hz
• Power consumption	PC Mode: 130 W (typ.) TV Mode: 150 W (typ.)
• Temperature (operating)	0° C to 35° C
• Relative humidity	20% to 80%
• System MTBF	50K hrs (excluding CCFL 40Khrs)

* This data is subject to change without notice.

12. Service Contacts

If problems remain after checking this manual, please contact your place of purchase, visit the Customer Support section of Mitsubishi Electric Australia's 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: (02) 1300 651-808
Fax: (02) 9684-7684

Queensland

1 / 104 Newmarket Road
Windsor QLD 4030
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Hindmarsh SA 5007
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East Burwood VIC 3151
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