

Installstion and Operating Instructions

Specifications: Dell™ W1700 LCD TV Monitor User's Guide

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General

Model number	W1700 LCD TV Monitor
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Flat Panel

Screen dimensions

Screen type	Active matrix - TFT LCD
Screen dimensions	17 inches (17-inch viewable image size)
Preset display area:	
Horizontal	372.48± 3 mm (14.66 inches ± 0.12 inches)
Vertical	223.48± 3 mm (8.80 inches ± 0.12 inches)
Pixel pitch	0.291 mm
Viewing angle	+/- 88° (vertical) typ, +/- 88° (horizontal) typ
Luminance output	250 CD/m <sup>2</sup> (typ)
Contrast ratio	400 to 1 (typ)
Faceplate coating	Anti-glare
Backlight	CCFL (6)

Resolution

Horizontal scan range	30 kHz to 61kHz (automatic)
Vertical scan range	56 Hz to 75 Hz (automatic)
Optimal preset resolution	1280 x 768 at 60 Hz
Highest preset resolution	1280 x 768 at 75 Hz
* Highest addressable resolution	1280 x 768 at 60 Hz

\* Addressable means the monitor will sync up to this mode.  
However, Dell does not guarantee the image will be sized, shaped and centered correctly.

Dell guarantees image size and centering for all preset modes listed in the following table.

Preset Display Modes

Display	Horizontal	Vertical	Pixel	Sync Polarity
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Mode	Frequency (kHz)	Frequency (Hz)	Clock (MHz)	(Horizontal/Vertical)
VGA, 720x 400	31.469	70.087	28.3	-/+
VGA, 640x 480	31.469	59.940	25.2	-/-
VESA, 640 x 480	37.500	75.000	31.5	-/-
VESA, 800 x 600	37.879	60.317	49.5	+/+
VESA, 800 x 600	46.875	75.000	49.5	+/+
VESA, 1024 x 768	48.363	60.004	65.0	-/-
VESA, 1024 x 768	60.023	75.029	78.8	+/+
VESA, 1280 x 768	47.700	60.000		-/+
VESA, 1280 x 768	60.150	75.000		-/+

## Electrical

Video input signals	Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance Digital DVI-D TMDS, 600mV for each differential line, positive polarity at 50 ohm input impedance
Synchronization input signals	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (SSN on green), Composite
AC input voltage / frequency / current	90 to 264 VAC / 50 or 60 Hz $\pm$ 2Hz / Adapter 16V 3.95A output

## Physical Characteristics

Connector type	15-pin D-subminiature, blue connector; DVI-D, white connector
Signal cable type	Analog: Detachable, D-sub, 15pin, shipped attached to the monitor Digital: Detachable, DVI-D, Solid pins, shipped detached from the monitor
Dimensions: (without packing)	
Height	290.0 mm (11.41 inches)
Width	544.0 mm (21.41 inches)
Depth	89.5 mm (3.52 inches)
Weight (monitor only)	7.0 Kg (15.44 lbs)
Weight (with packaging)	9.5 Kg (20.93 lbs)

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## Environmental

### Temperature:

Operating	0°C to 35°C (32°F to 95°F)
Nonoperating	Storage: 0 to 60°C (32°F to 140°F) Shipping: -20 to 60°C(-4°F to 140°F)

### Humidity:

Operating	10% to 80% (noncondensing)
Nonoperating	Storage: 5% to 90% (noncondensing) Shipping: 5% to 90%(noncondensing)

### Altitude:

Operating	3,657.6m (12,000 ft) max
Nonoperating	12,192 m (40,000 ft) max

Thermal dissipation	136.52 BTU/hour (maximum) 116.04 BTU/hour (typical)
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## Power Management Modes

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. This is referred to as 'Power Save Mode\*'. If input from keyboard, mouse or other input devices is detected by the computer, the monitor will automatically "wake up". The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition					
VESA Modes	Video	H-sync	V-sync	Power Used	LED color
ON	Active	Yes	Yes	48 W (typical)	Blue
OFF	Blanked	No	No	< 2 W	Amber



**NOTE:** In Power Saving Mode, Press Any Key on Keyboard or Move Moue. Activate the computer and 'wake up' the monitor to gain access to the [OSD](#).

This monitor is **ENERGY STAR®**-compliant as well as TCO '99 power management compatible.



\* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

**ENERGY STAR®** is a U.S. registered mark. As an **ENERGY STAR®** Partner, DELL has determined that this product meets the **ENERGY STAR®** guidelines for energy efficiency.

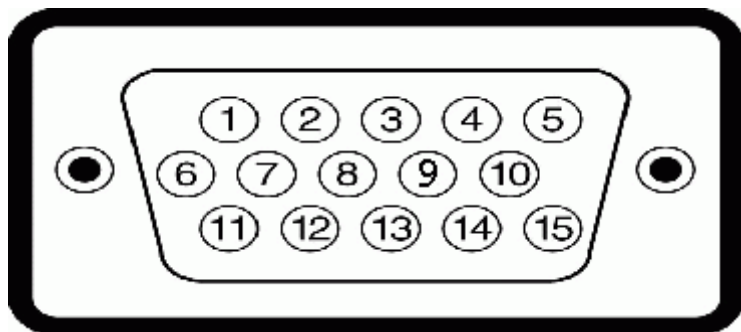


**NOTE:** This monitor automatically returns to normal operation when horizontal and vertical sync return, which occurs when you move the computer's mouse or press a key on the keyboard.

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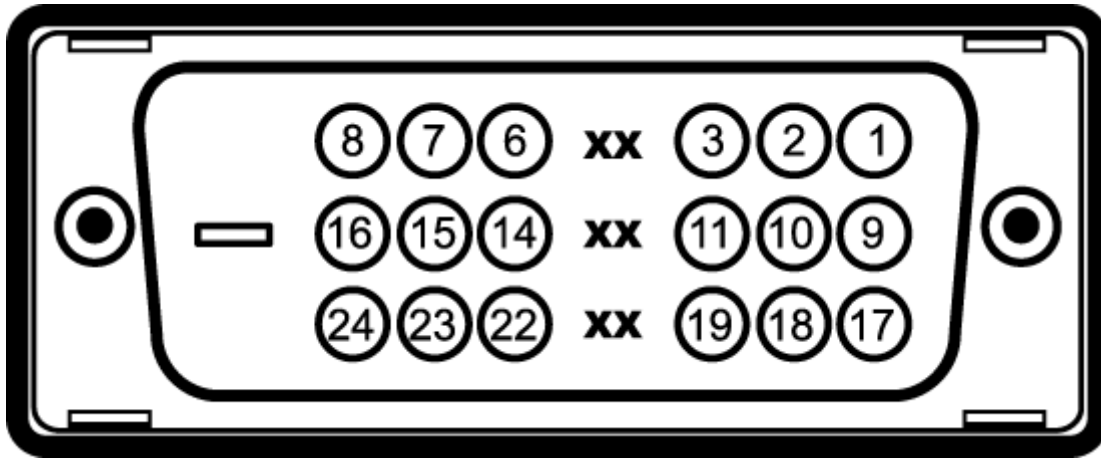
## Pin Assignments

### 15-pin D-Sub connector:



Pin Number	Monitor Side of the 15-Pin Side Signal Cable
1	Red
2	Green
3	Blue
4	GND
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	+5V (supply form PC)
10	Sync GND
11	GND
12	Bi-directional data (SDA)
13	H. Sync
14	V. Sync (vclk)
15	Data clock (SCL)

### 24 pin digital-only DVI cable:



Note: Pin 1 is at the top right.

Pin	Signal Assignment	Pin	Signal Assignment	Pin	Signal Assignment
1	T.M.D.S. Data 2-	9	T.M.D.S. Data 1-	17	T.M.D.S. Data 0-
2	T.M.D.S. Data 2+	10	T.M.D.S. Data 1+	18	T.M.D.S. Data 0+
3	T.M.D.S. Data 2 Shield	11	T.M.D.S. Data 1 Shield	19	T.M.D.S. Data 0 Shield
4	No Pin	12	No Pin	20	No Pin
5	No Pin	13	No Pin	21	No Pin
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for + 5V)	23	T.M.D.S. Clock +
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock -

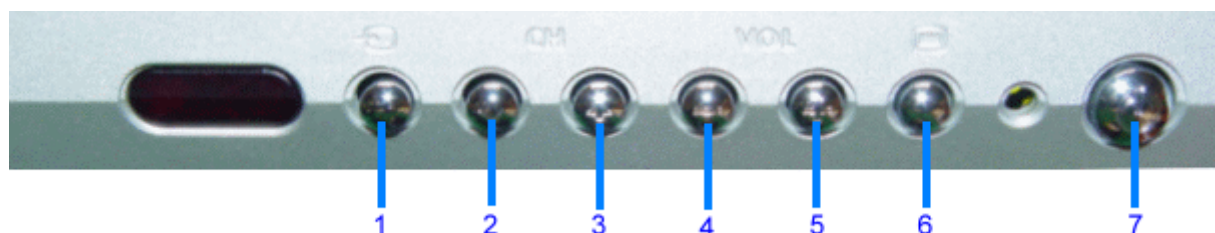
## Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. If desired, the user can select different settings, but in most cases monitor installation is automatic.


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## Front View: Dell™ W1700 LCD TV Monitor User's Guide

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### PC Mode

	IR receiver	Sense the signal form RC handset.
1	<b>Input select</b>	Input source select key;PC Analog, PC Digital, TV Tuner, Composite, S-Video, Component.
2-3	<b>↑↓</b>	Increase or decrease the channel number or up or down the highlighted function in OSD
4-5	<b>+ -</b>	Increase or decrease the level of audio volume or move up or down the highlighted function in OSD
6	Menu	Enable OSD menu (enter key for PC).
	Power LED	Normal operation: Green. Sleeping mode: Amber.
7	Power SW	 Power switch On/Off

## Back View: Dell™ W1700 LCD TV Monitor User's Guide

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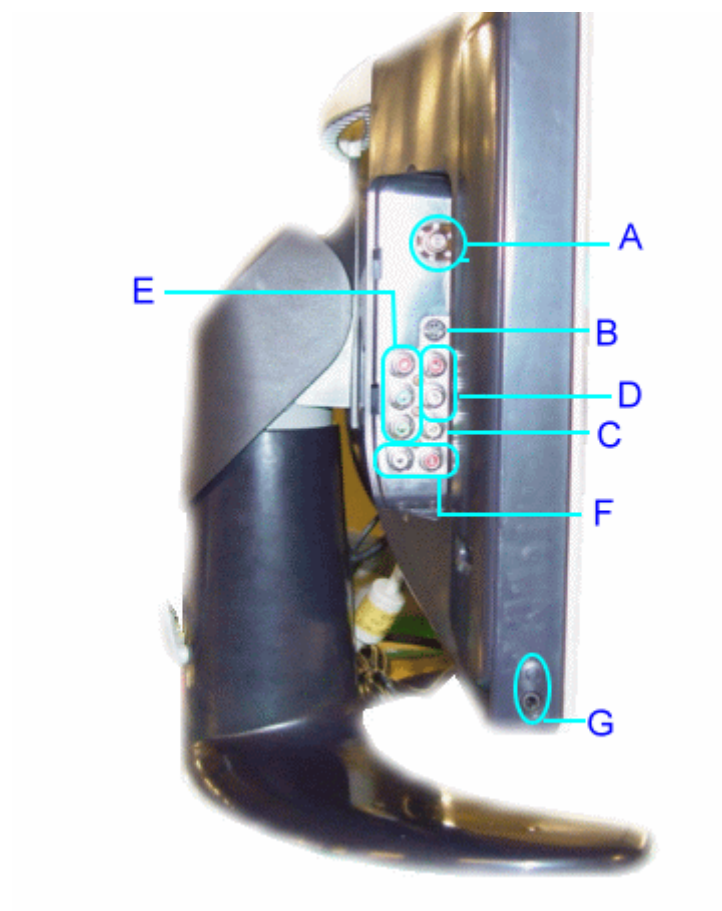


- A** Power Jack (DC In)
- B** D-SUB (Analog)
- C** PC Audio In
- D** DVI-D ( Digital)
- E** Composite Video Out
- F-G** Audio Out (for composite video)
- H** HAS Button



## Side View: Dell™ W1700 LCD TV Monitor User's Guide

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- A** Antenna In
- B** S-Video In
- C** Composite Video In
- D** CVBS Audio In  
(paired with B or C)
- E** Component Video In
- F** Audio In (paired with component  
video in)
- G** Earphone In



# Regulatory: Dell™ W1700 LCD TV Monitor User's Guide

[TCO](#) • [Energy Efficiency](#) • [Federal Communications Commission \(FCC\) Notice \(U.S. Only\)](#) • [CE Declaration of Conformity](#) • [Canadian Regulatory Information \(Canada Only\)](#) • [EN 55022 Compliance \(Czech Republic Only\)](#) • [VCCI Class B Notice \(Japan Only\)](#) • [MIC Notice \(Republic of Korea Only\)](#) • [Polish Center for Testing and Certification Notice](#) • [NOM Information \(Mexico Only\)](#) • [BSMI Notice \(Taiwan Only\)](#) • [Ergonomics Notice \(Germany Only\)](#)

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## TCO



## Congratulations!

You have just purchased a TCO'99 approved and labeled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

## Why do we have environmentally labeled computers?

In many countries, environmental labeling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

## What does labeling involve?

This product meets the requirements for the TCO'99 scheme which provides for international and environmental labeling of personal computers. The labeling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation) and Staten Energimyndighet (The Swedish National Energy Administration).

Approval requirements cover a wide range of issues: environment, ergonomics, usability, emission of electric and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons) and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Labeled products must meet strict environmental demands, for example, in respect of the reduction of electric and magnetic fields, physical and visual ergonomics and good usability.

## Energy Efficiency



The proper operation of the function requires a computer with VESA® DPMS power management capabilities. When used with a computer equipped with VESA® DPMS, the monitor is **ENERGY STAR®**-compliant.

As an **ENERGY STAR®** Partner, Dell Computer Corporation has determined that this product meets the **ENERGY STAR®** guidelines for energy efficiency.

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## Federal Communications Commission (FCC) Notice (U.S. Only)

**⚠ WARNING:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

**Instructions to Users:** This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that following conditions are met.

1. Power cable: Shielded power cable should be used.
2. Video inputs: The input signal amplitude must not exceed the specified level.

**⚠ CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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## CE Declaration of Conformity

### CE DECLARATION OF CONFORMITY

FOR A CLASS B DIGITAL DEVICE

#### Directives to which conformity is declared

*EMC Directives 89/336/EEC and amending directive 92/31/EEC  
And  
Low Voltage Directive 73/23/EEC*

#### Standards to which conformity is declared

*EN55022: 1998, EN55024: 1998, EN61000-3-2:1995, EN61000-3-3:1995 and  
EN60950:2000*

Manufacturer's Name: Philips Electronics Industries (Taiwan) Ltd