Product End-of-Life Disassembly Instructions

Product Category: Monitors and Displays

Marketing Name / Model
[List multiple models if applicable.]

HP L2105tm Touchscreen Monitor

Name / Model #2
Name / Model #3
Name / Model #4
Name / Model #5

Purpose: The document is intended for use by end-of-life recyclers or treatment facilities. It provides the basic instructions for the disassembly of HP products to remove components and materials requiring selective treatment, as defined by EU directive 2002/96/EC, Waste Electrical and Electronic Equipment (WEEE).

1.0 Items Requiring Selective Treatment

1.1 Items listed below are classified as requiring selective treatment.
1.2 Enter the quantity of items contained within the product which require selective treatment in the right column, as applicable.

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Notes</th>
<th>Quantity of items included in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>Printed Circuit Boards (PCB) or Printed Circuit Assemblies (PCA)</td>
<td>With a surface greater than 10 sq cm Main Board / Button Board / Power Board / Camera Board / Arm Board</td>
<td>5</td>
</tr>
<tr>
<td>Batteries</td>
<td>All types including standard alkaline and lithium coin or button style batteries</td>
<td>NA</td>
</tr>
<tr>
<td>Mercury-containting components</td>
<td>For example, mercury in lamps, display backlights, scanner lamps, switches, batteries</td>
<td>4 CCFLs</td>
</tr>
<tr>
<td>Liquid Crystal Displays (LCD) with a surface greater than 100 sq cm</td>
<td>Includes background illuminated displays with gas discharge lamps</td>
<td>1 PCS</td>
</tr>
<tr>
<td>Cathode Ray Tubes (CRT)</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>Capacitors / condensers (Containing PCB/PCT)</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Electrolytic Capacitors / Condensers measuring greater than 2.5 cm in diameter or height</td>
<td>Capacitor - C101 ( height = 4.6 cm )</td>
<td>1</td>
</tr>
<tr>
<td>External electrical cables and cords</td>
<td>Power cord DVI cable VGA cable USB cable Audio cable</td>
<td></td>
</tr>
<tr>
<td>Gas Discharge Lamps</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>
Plastics containing Brominated Flame Retardants weighing > 25 grams (not including PCBs or PCAs already listed as a separate item above) | HB | No
---|---|---
Components and parts containing toner and ink, including liquids, semi-liquids (gel/paste) and toner | Include the cartridges, print heads, tubes, vent chambers, and service stations. | NA
Components and waste containing asbestos | | No
Components, parts and materials containing refractory ceramic fibers | | No
Components, parts and materials containing radioactive substances | | No

### 2.0 Tools Required

List the type and size of the tools that would typically be used to disassemble the product to a point where components and materials requiring selective treatment can be removed.

<table>
<thead>
<tr>
<th>Tool Description</th>
<th>Tool Size (if applicable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description #1 - SCREW DRIVER ( + )</td>
<td>Medium size</td>
</tr>
<tr>
<td>Description #2 - SCREW DRIVER ( + )</td>
<td>Small size</td>
</tr>
<tr>
<td>Description #3</td>
<td></td>
</tr>
<tr>
<td>Description #4</td>
<td></td>
</tr>
<tr>
<td>Description #5</td>
<td></td>
</tr>
</tbody>
</table>

### 3.0 Product Disassembly Process

3.1 List the basic steps that should typically be followed to remove components and materials requiring selective treatment:

1. Please see the attachments (User's Manual and Product Expanded Diagram)
2.
3.
4.
5.
6.
7.
8.

3.2 Optional Graphic. If the disassembly process is complex, insert a graphic illustration below to identify the items contained in the product that require selective treatment (with descriptions and arrows identifying locations).

Please refer to the explosion drawing and user’s manual (Please refer to attachments below)
Agency Regulatory Notices

Federal Communications Commission Notice
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 radiofrequency 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 the receiving antenna.
- Increase the separation between the equipment and the 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 or television technician for help.

Modifications
The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hewlett Packard Company may void the user’s authority to operate the equipment.

Cables
Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity for Products Marked with the FCC Logo (United States Only)
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

For questions regarding the product, contact:

Hewlett Packard Company
P. O. Box 692000, Mail Stop 530113
Houston, Texas 77269-2000

Or, call 1-800-HP-INVENT (1-800 474-6836)

For questions regarding this FCC declaration, contact:

Hewlett Packard Company
P. O. Box 692000, Mail Stop 510101
Houston, Texas 77269-2000

Or, call (281) 514-3333

To identify this product, refer to the Part, Series, or Model number found on the product.
Canadian Notice
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Japanese Notice
この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをして下さい。

Korean Notice

Power Cord Set Requirements
The monitor power supply is provided with Automatic Line Switching (ALS). This feature allows the monitor to operate on input voltages between 100–120V or 200–240V. The power cord set (flexible cord or wall plug) received with the monitor meets the requirements for use in the country where you purchased the equipment. If you need to obtain a power cord for a different country, you should purchase a power cord that is approved for use in that country. The power cord must be rated for the product and for the voltage and current marked on the product's electrical ratings label. The voltage and current rating of the cord should be greater than the voltage and current rating marked on the product. In addition, the cross-sectional area of the wire must be a minimum of 0.75 mm² or 18 AWG, and the length of the cord must be between 6 feet (1.8 m) and 12 feet (3.6 m). If you have questions about the type of power cord to use, contact an authorized HP service provider. A power cord should be routed so that it is not likely to be walked on or pinched by items placed upon it or against it. Particular attention should be paid to the plug, electrical outlet, and the point where the cord exits from the product.

Japanese Power Cord Requirements
For use in Japan, use only the power cord received with this product.
CAUTION: Do not use the power cord received with this product on any other products.
Product Environmental Notices

Materials Disposal
This HP product contains mercury in the fluorescent lamp in the display LCD that might require special handling at end-of-life. Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, contact the local authorities or the Electronic Industries Alliance (EIA)http://www.eiae.org.

Disposal of Waste Equipment by Users in Private Household in the European Union
This symbol on the product or on its packaging indicates that this product must not be disposed of with your household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling or waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact the local city office, the household waste disposal service or the shop where you purchased the product.

Chemical Substances
HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and Council). A chemical information report for this product can be found at http://go/reach.

Restriction of Hazardous Substances (RoHS)
A Japanese regulatory requirement, defined by specification JIS C 0950, 2005, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006. To view the JIS C 0950 material declaration for this product, visit http://www.hp.com/go/jisc0950.

2008年、日本における製品含有表示方法、JIS C 0950が公布されました。製造事業者は、2006年7月1日以降に販売される電気・電子機器の特定化学物質の含有につきまして情報提供を義務付けられました。製品の部材表示につきましては、www.hp.com/go/jisc0950を参照してください。
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Safety Instructions

• Please keep the display away from any heat sources such as electric radiators or direct sunlight. Place the display in a stable and well-ventilated place.

• The holes or openings on the display are designed for ventilation. Do not cover or block the ventilation holes or openings with any objects.

• As the display surface is vulnerable to scratches, avoid touching the surface with nail or pen point.

• Shut off the power supply before cleaning. Use a soft lint-free cloth instead of a tissue to wipe the screen.

• You may use a glass cleaner to clean the product as required. However, never spray the cleaner directly onto the display surface.

• Do not attempt to repair this product yourself! Improperly disassembly of the product may expose you to danger! If your problem cannot be solved according to the "Troubleshooting" guidelines, contact your regional HP authorized service provider, http://www.hp.com/support.
Recycling Information

HP encourages customers to recycle used electronic hardware, HP original print cartridges, and rechargeable batteries. For more information about recycling programs, go to http://www.hp.com/recycle.
If any component is missing, please contact your local dealer for technical support or customer service.

Note: Please keep the original carton and packing materials for future transportation or shipment of the display.
Connection instructions

Installing the display

Install:

Remove:

Place the display on the table (Figure 1)

Packaging procedures

If you need to package the display again, please keep the original carton and packing materials. The procedures for re-packaging the display are as follows:

1. Unplug the power cord from the display (make sure all attached peripherals are already turned off).
2. Put the display into the carton in the original packaging manner.

⚠️ Important

Before you start, place a clean towel or cloth on a flat surface, on which you can place the removed display panel without being damaged.

Adjusting the viewing angle

You may adjust the display's viewing angle from -5° ~ 20°.

(Figure 2)

Note

- When you adjust the viewing angle of the display, avoid touching the LCD display with your fingers, as this may damage or break the liquid crystal screen.
- When you adjust the angle of your display, pay attention to your adjustment action, as shown in the figure above.
Connection instructions

**Note:** Before installation, please make sure to power off the display and the computer.

![Connection Diagram](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power cord</td>
</tr>
<tr>
<td>2</td>
<td>VGA cable</td>
</tr>
<tr>
<td>3</td>
<td>Audio cable</td>
</tr>
<tr>
<td>4</td>
<td>USB cable</td>
</tr>
</tbody>
</table>

**VGA (D-sub 15 pin)**

- Connect one end of the power cord into the AC power connector on the rear of the display, and the other end to an electrical wall outlet.
- Connect the signal cable:
  - For analog operation use the VGA cable. Connect the VGA signal cable to the VGA connector on the rear of the PC.
  - For digital operation use the DVI-D cable. Connect the DVI-D signal cable to the DVI connector on the rear of the monitor and the other end to the DVI connector on the rear of the PC.
- Connector one end of the audio cable to the audio-in connector on the rear of the display, and the other end of the cable to the audio-out jack on the PC.
- Connect one end of the USB cable to the USB connector on the display, and the other end of the USB cable to the PC.

**Warning:**

1. Please verify the video card you are using and use an appropriate signal cable.
2. Pay attention to the PIN assignments and connection directions. Do not force to avoid bending the pins.
Using the display

Turning on the display
Turn on the display before turning on the computer. When the power is on, the LED on the power button lights blue and the screen image will appear after about 10 seconds. If the LED doesn't light blue or no image appears, please verify if the display is properly connected.

(Figure 4)

Function controls

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MENÚ</td>
<td>OSD function menu</td>
</tr>
<tr>
<td></td>
<td>OSD off: Displays the OSD function menu</td>
<td>OSD on: Confirm the OSD function option</td>
</tr>
<tr>
<td>2</td>
<td>&lt;</td>
<td>Left/decrease button</td>
</tr>
<tr>
<td></td>
<td>OSD off: Press this button directly to serve as the shortcut for input</td>
<td>OSD on: Press this button to select/decrease the adjustment</td>
</tr>
<tr>
<td>3</td>
<td>&gt;</td>
<td>Right/increase button</td>
</tr>
<tr>
<td></td>
<td>OSD on: Press this button to select/increase the adjustment</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>AUTO</td>
<td>Auto adjustment button</td>
</tr>
<tr>
<td></td>
<td>OSD off: Perform the auto adjustment function</td>
<td>OSD on: Exit the OSD function menu</td>
</tr>
<tr>
<td>5</td>
<td>POWER</td>
<td>Power Switch</td>
</tr>
<tr>
<td></td>
<td>Power ON/OFF</td>
<td>Blue LED - Power ON mode</td>
</tr>
<tr>
<td></td>
<td>Orange LED - Power saving mode</td>
<td></td>
</tr>
</tbody>
</table>
Driver Installation Guide for Windows XP

1. Installation

Step 1: Click OTM_Driver_Setup.exe

- To install OTM driver need OTM devices. If the setup wizard can't found the OTM devices, it would pop up following warning message.

![OTM Driver Setup]

Welcome message of installation

Step 2: Click "Next"

- Welcome message of installation

![OTM Driver Setup]

Welcome to the OTM Driver Setup Wizard

This wizard will guide you through the installation of OTM driver

It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.

Note: This software applies only to products Quanta touch screen, the installation of this software may be conflicts with certain versions of operating system, please confirm whether or not to continue

Click Next to continue.
Step 3: Click “Install”

- After clicking install, the setup wizard would pop the window which shows the installation process.

Step 4: Click “Continue anyway” or “Install driver software anyway”

- When setup wizard is installing OTM driver on XP, the windows system would pop up a warning window.
Step 5: Click “Finish”
- Installation Complete

Step 6: Click Yes
- After Clicking Finish, the setup wizard would ask the user to reboot computer for running OTM_Apps applications.

2. Silent install
   Step 1. Copy OTM_Driver_Setup.exe to a directory
   Step 2. Execute command prompt
   Step 3. Change path to the directory
   Step 4. Type “OTM_Driver_Setup.exe /S”

P.S. Silent Install need reboot computer manually.
Control of the Touch Function

⚠️ **Note:**

1. Before using the touch function, make sure that USB is connected, the applications attached to the driver CD-ROM are installed and the Window's operating system is started.
2. When the touch function is active, make sure there is no foreign object in the areas encircled in the figure below.

(Figure 5) Make sure there is no foreign object in the encircled areas.

**Note:**

- Keep the display away from any heat sources such as electric radiators, natural gas pipes or direct sunlight. Also keep the display away from excessive dust, mechanical vibration or shock.
- Retain the original carton & packaging materials. They will be convenient for you, if you need to transport your display again.
- For best protection, pack the display in the original manner of package from the factory.
- To maintain a brand new appearance of the display, clean with soft cloth regularly. Please remove stubborn stains with soft cleaner rather than strong cleaners such as diluting agent, benzene or corrosive cleaner as they may damage the display. For the sake of safety, remove the power plug prior to cleaning.
- The touch function may need about 7 seconds to resume if the USB cable is re-plugged or the computer resumes from sleep mode (suspend mode).
Press the Menu button to activate the OSD function menu and continue pressing the Menu button to select an option from the 7 functions in the menu. Select the function you want to adjust on the OSD function menu and then press MENU to make adjustment. Please use <or> to adjust the screen to your desired status. After finishing the setting, press AUTO to exit the OSD screen.

**OSD Menu**

**Brightness/Contrast**
- **Brightness**: Press < or > (② and ③ in Figure 4) to adjust the brightness.
- **Contrast**: Press < or > (② and ③ in Figure 4) to adjust the contrast.

**IMAGE CONTROL**
- **Auto Adjustment**: Automatically selects the optimal settings for image parameters.
- **H.POSITION**: Controls the picture’s horizontal position.
- **V.POSITION**: Controls the picture’s vertical position.
- **CLOCK**: Sets up the internal clock. Larger values make the displayed image appear wider; smaller values make it appear compressed.
- **PHASE**: Adjusts the internal clock’s time lag in order to optimize the screen image.
- **SHARPNESS**: Controls image sharpness.

**COLOR**
This menu lets you select a preset color temperature (9300K, 6500K or sRGB) by pressing the OSD buttons < or >. Changes to the color temperature take immediate effect on screen. If you wish to set individual color values, select the Custom Color option.

Then press the MENU button to select the red, green and blue settings and set the desired value using the OSD buttons < or >.
The current settings are automatically saved when you return to the previous level or exit the OSD menu.
OSD CONTROL
H.OSD POSITION: Controls the OSD menu's horizontal position.
V.OSD POSITION: Controls the OSD menu's vertical position.
OSD TIMEOUT: Determines how long (in seconds) the OSD menu waits before closing automatically after no action has been performed.

OTHER
LANGUAGE: OSD menu language selection:
ENGLISH, DEUTSCH, FRANCAIS, ESPANOL, ITALIANO, POLSKI, NEDERLANDS, PYCCKO.
INPUT: Selects Analog (D-sub) or Digital (DVI-D) input.
SPEAKER VOLUME: Adjusts the monitor loudspeaker output volume.
INFORMATION: There is an optional OSD window (on/off) that displays the newly adjusted screen resolution settings.

⚠️ Note: Do not adjust the screen setting when animation is displayed; make sure to adjust the setting in full screen mode.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problems</th>
<th>Possible solutions</th>
</tr>
</thead>
</table>
| Power LED doesn't light up.                   | • Check if the power switch is in the ON position  
                                              • Make sure the power cord is properly connected                                                                                       |
| No screen image                               | • Check if the power switch is in the ON position  
                                              • Make sure the power cord is properly connected  
                                              • Make sure the signal cable is securely connected  
                                              • When the display is in use, it will automatically turn off to enter the power saving mode. Please press any key to see if the image resumes. |
| Abnormal colors are present                    | • Please refer to the "Color Temperature" section to adjust the RGB color or select a color temperature.                                         |
| The image bounces or a wave pattern is present | • Remove any electrical device that may be causing electrical interference.  
                                              • Check the signal cable and make sure the pins are not bent.                                                                            |
| The screen image is not centered or the size is incorrect | • Press the Auto button to automatically optimize the display status.  
                                              • Refer to the "Image Control section".                                                                                             |

⚠️ **Note:** Never disassemble or repair the product yourself. If your problem cannot be solved according to the troubleshooting guidelines, please contact your local dealer.
## Production Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LCD panel size</strong></td>
<td>54.61 cm (21.5in)</td>
</tr>
<tr>
<td><strong>DCR</strong></td>
<td>3000:1 (typical)</td>
</tr>
<tr>
<td><strong>Viewing angle</strong></td>
<td>Horizontal 170°, vertical 160° (typical)</td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>5 ms (typical)</td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>300 cd/m² (typical)</td>
</tr>
<tr>
<td><strong>Input signal</strong></td>
<td>Analog signal (D-sub); digital signal (DVI)</td>
</tr>
<tr>
<td><strong>Display color</strong></td>
<td>16.7 M colors</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>24 ~ 83 kHz Horizontal, 50 ~ 76 Hz Vertical</td>
</tr>
<tr>
<td><strong>Max resolution</strong></td>
<td>1920 x 1080 (60Hz)</td>
</tr>
<tr>
<td><strong>Max Pixel clock</strong></td>
<td>180 MHZ</td>
</tr>
<tr>
<td><strong>Tilt</strong></td>
<td>-5° ~ 20°</td>
</tr>
<tr>
<td><strong>Audio output</strong></td>
<td>1W X 2</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>100-240VAC, 50/60Hz, 1.2A (1.2A)</td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>Display mode: Max 48W; LED color: Blue</td>
</tr>
<tr>
<td></td>
<td>Sleeping mode: Less than 1W, LED color: Orange</td>
</tr>
<tr>
<td><strong>Size</strong></td>
<td>Width: 513 mm, Height: 393 mm, Depth: 228 mm</td>
</tr>
<tr>
<td></td>
<td>Width: 20.2 in, Height: 15.5 in, Depth: 9 in</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>8.5 kg/18.7 lb (net)</td>
</tr>
<tr>
<td><strong>Environmental conditions</strong></td>
<td>Operating temperature/humidity:</td>
</tr>
<tr>
<td></td>
<td>5 ~ 35°C, relative humidity: 10-85%</td>
</tr>
<tr>
<td></td>
<td>Storage temperature/humidity:</td>
</tr>
<tr>
<td></td>
<td>5 ~ 35°C, relative humidity: 10-85%</td>
</tr>
</tbody>
</table>
## Preset Modes

<table>
<thead>
<tr>
<th>Preset</th>
<th>Pixel</th>
<th>Horz Freq (\text{(kHz)})</th>
<th>Horz Polarity</th>
<th>Vert Freq (\text{(Hz)})</th>
<th>Vert Polarity</th>
<th>Pixel Clk (\text{(MHz)})</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>640 x 480</td>
<td>31.469</td>
<td>-</td>
<td>59.940</td>
<td>-</td>
<td>25.175</td>
<td>VGA</td>
</tr>
<tr>
<td>2</td>
<td>720 x 400</td>
<td>31.469</td>
<td>-</td>
<td>70.087</td>
<td>+</td>
<td>28.322</td>
<td>VGA</td>
</tr>
<tr>
<td>3</td>
<td>800 x 600</td>
<td>37.879</td>
<td>+</td>
<td>60.317</td>
<td>+</td>
<td>40.000</td>
<td>VESA</td>
</tr>
<tr>
<td>4</td>
<td>1024 x 768</td>
<td>48.363</td>
<td>-</td>
<td>60.004</td>
<td>-</td>
<td>65.000</td>
<td>VESA</td>
</tr>
<tr>
<td>5</td>
<td>1280 x 720</td>
<td>45.00</td>
<td>+</td>
<td>60.00</td>
<td>+</td>
<td>74.25</td>
<td>VESA/CEA-861D</td>
</tr>
<tr>
<td>6</td>
<td>1280 x 960</td>
<td>60.00</td>
<td>±</td>
<td>60.00</td>
<td>±</td>
<td>108.000</td>
<td>VESA</td>
</tr>
<tr>
<td>7</td>
<td>1280 x 1024</td>
<td>63.98</td>
<td>+</td>
<td>60.02</td>
<td>+</td>
<td>108.000</td>
<td>VESA</td>
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<tr>
<td>8</td>
<td>1440 x 900</td>
<td>55.94</td>
<td>-</td>
<td>59.89</td>
<td>+</td>
<td>106.500</td>
<td>CVT 1.30MA</td>
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<tr>
<td>9</td>
<td>1600 x 1200</td>
<td>75.00</td>
<td>+</td>
<td>60.00</td>
<td>+</td>
<td>162.000</td>
<td>VESA</td>
</tr>
<tr>
<td>10</td>
<td>1680 x 1050</td>
<td>65.29</td>
<td>-</td>
<td>60.0</td>
<td>+</td>
<td>146.25</td>
<td>CVT 1.76MA</td>
</tr>
<tr>
<td>11</td>
<td>1920 x 1080</td>
<td>67.5</td>
<td>+</td>
<td>60.00</td>
<td>+</td>
<td>148.5</td>
<td>VESA/CEA-861D</td>
</tr>
</tbody>
</table>
Appendix

Connector pin assignment

- 15 pin color display signal cable:

<table>
<thead>
<tr>
<th>PIN No.</th>
<th>Description</th>
<th>PIN No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Red</td>
<td>9.</td>
<td>+5V</td>
</tr>
<tr>
<td>2.</td>
<td>Green</td>
<td>10.</td>
<td>Logic ground</td>
</tr>
<tr>
<td>3.</td>
<td>Blue</td>
<td>11.</td>
<td>Monitor ground</td>
</tr>
<tr>
<td>4.</td>
<td>Monitor ground</td>
<td>12.</td>
<td>DDC-serial data</td>
</tr>
<tr>
<td>5.</td>
<td>DDC-return</td>
<td>13.</td>
<td>H-sync</td>
</tr>
<tr>
<td>6.</td>
<td>R-ground</td>
<td>14.</td>
<td>V-sync</td>
</tr>
<tr>
<td>7.</td>
<td>G-ground</td>
<td>15.</td>
<td>DDC-serial time sequence</td>
</tr>
</tbody>
</table>