

## Equipment Description

The Equipment Under Test (EUT) is the LG Electronics U.S.A., Inc. LCD Monitor.

## General Specification

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Display</b>                                 | <b>Screen Type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 54.5 cm (21.5 inch) Flat Panel Active matrix-TFT LCD<br>Anti-Glare coating<br>Visible diagonal size: 54.5 cm |
|                                                | <b>Pixel Pitch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.247 mm x 0.247 mm (Pixel Pitch)                                                                            |
| <b>Sync Input</b>                              | <b>Horizontal Frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30 kHz to 83 kHz (Automatic)                                                                                 |
|                                                | <b>Vertical Frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 56Hz to 75Hz (D-SUB, DVI-D)                                                                                  |
|                                                | <b>Input Form</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Separate Sync. Digital                                                                                       |
| <b>Video Input</b>                             | <b>Signal Input</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 15 pin D-SUB Connector /DVI-D Connector (Digital)                                                            |
|                                                | <b>Input Form</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | RGB Analog (0.7 Vp-p/ 75 ohm), Digital                                                                       |
| <b>Resolution</b>                              | <b>Max</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | D-SUB(Analog) : 1920 x 1080 @ 60 Hz<br>DVI(Digital) : 1920 x 1080 @ 60 Hz                                    |
|                                                | <b>Recommend</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | VESA 1920 x 1080 @ 60 Hz                                                                                     |
| <b>Plug &amp; Play</b>                         | DDC 2B(Analog,Digital)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |
| <b>Power Consumption</b>                       | On Mode : 23 W(Typ.)<br>Sleep Mode ≤ 0.3 W<br>Off Mode ≤ 0.3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                              |
| <b>Power Input</b>                             | 19 V  1.2 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                              |
| <b>AC-DC Adapter</b>                           | Type ADS-40SG-19-3 19025G,manufactured by HONOR ELECTRONIC<br>or type ADS-40FSG-19 19025GPG-1,manufactured by HONOR ELECTRONIC<br>or type ADS-40FSG-19 19025GPBR-1,manufactured by HONOR ELECTRONIC<br>or type ADS-40FSG-19 19025GPI-1,manufactured by HONOR ELECTRONIC<br>or type ADS-40FSG-19 19025GPCU-1,manufactured by HONOR ELECTRONIC<br>or type LCAP211,manufactured by LIEN CHANG ELECTRONIC ENTERPRISE<br>or type LCAP26-A,manufactured by LIEN CHANG ELECTRONIC ENTERPRISE<br>or type LCAP26-E,manufactured by LIEN CHANG ELECTRONIC ENTERPRISE<br>or type LCAP26-I,manufactured by LIEN CHANG ELECTRONIC ENTERPRISE<br>or type LCAP26-B,manufactured by LIEN CHANG ELECTRONIC ENTERPRISE<br><br><b>OUTPUT: 19V  1.3A</b> |                                                                                                              |
| <b>Dimensions<br/>(Width x Height x Depth)</b> | <b>With Stand</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 50.9 cm x 38.7 cm x 18.1 cm                                                                                  |
|                                                | <b>Without Stand</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50.9 cm x 31.3 cm x 3.6 cm                                                                                   |
| <b>Weight</b>                                  | 2.6 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                              |
| <b>Tilt Range</b>                              | -5° to 20°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                              |
| <b>Environmental<br/>conditions</b>            | <b>Operating Temperature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10°C to 35 °C                                                                                                |
|                                                | <b>Operating Humidity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 10 % to 80 %                                                                                                 |
|                                                | <b>Storage Temperature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -20°C to 60 °C                                                                                               |
|                                                | <b>Storage Humidity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5 % to 90 % non-Condensing                                                                                   |
| <b>Stand Base</b>                              | Attached (  ), Detached (  )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                              |
| <b>Power cord</b>                              | Wall-outlet type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                              |

Product specifications shown above may be changed without prior notice due to upgrade of product functions.

## EUT Operating Conditions

- a. Setup the EUT and Peripherals as shown in Sec. 3.2 of the test report.
- b. Turn on the power of all equipment and the EUT.
- c. Set the contrast & brightness of EUT to maximum.
- d. PC system ran the self-test program "EMC Test" by windows XP and sent "H" characters to EUT through graphic card (we use white letters on a black background to represent all colors), the EUT's screen displayed and filled with "H" pattern by its resolution (Via D-Sub/DVI Input).
- e. Repeat above procedure from c to d for difference test mode.
- f. The other peripherals devices were driven and operated during the test.
- g. The test modes are as follows:

| Adapter    | Test Mode            |
|------------|----------------------|
| Adapter #1 | D-Sub 640*480@60Hz   |
|            | D-Sub 1280*1024@75Hz |
|            | D-Sub 1680*1050@60Hz |
|            | D-Sub 1920*1080@60Hz |
|            | DVI 640*480@60Hz     |
|            | DVI 1280*1024@75Hz   |
|            | DVI 1680*1050@60Hz   |
|            | DVI 1920*1080@60Hz   |
| Adapter #2 | D-Sub 1680*1050@60Hz |
| Adapter #3 | D-Sub 1680*1050@60Hz |
| Adapter #4 | D-Sub 1680*1050@60Hz |

NOTE: We tested the EUT with adapter #1 and selected the worst test mode to perform test with adapter #2/#3/#4.