

Equipment Description

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

General Specification

Display	Screen Type	54.6 cm (21.5 inch) Flat Panel Active matrix-TFT LCD Anti-Glare coating Visible diagonal size: 54.6 cm
	Pixel Pitch	0.248 mm x 0.248 mm (Pixel Pitch)
Sync Input	Horizontal Frequency	30 kHz to 83 kHz (Automatic)
	Vertical Frequency	56Hz to 75Hz (D-SUB, DVI-D) 56Hz to 61Hz (HDMI)
	Input Form	Separate Sync. Digital
Video Input	Signal Input	15 pin D-SUB Connector /DVI-D Connector (Digital) HDMI Connector
	Input Form	RGB Analog (0.7 Vp-p/ 75 ohm), Digital
Resolution	Max	D-SUB(Analog) : 1920 x 1080 @ 60 Hz DVI / HDMI (Digital) : 1920 x 1080 @ 60 Hz
	Recommend	VESA 1920 x 1080 @ 60 Hz
Plug & Play	DDC 2B(Analog,Digital,HDMI)	
Power Consumption	On Mode : 34 W(Typ.) Sleep Mode ≤ 0.5 W Off Mode ≤ 0.5 W	
Power Input	AC 100-240 V~ 50 / 60 Hz 1.0 A	
Dimensions (Width x Height x Depth)	With Stand	50.9 cm x 38.8 cm x 16.6 cm
	Without Stand	50.9 cm x 32.2 cm x 5.8 cm
Weight	3.0 kg	
Tilt Range	-5° to 15°	
Environmental conditions	Operating Temperature	10°C to 35 °C
	Operating Humidity	20 % to 80 %
	Storage Temperature	-10°C to 60 °C
	Storage Humidity	5 % to 90 % non-Condensing
Stand Base	Attached (), Detached (O)	
Power cord	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/HDMI Input).
- e. In HDMI mode, the EUT connected to DVD through HDMI port.
- f. Repeat above procedure from c to e for difference test mode.
- g. The other peripherals devices were driven and operated during the test.
- h. The test modes are as follows:

Test Mode
D-Sub 640*480@60Hz
D-Sub 1280*1024@60Hz
D-Sub 1680*1050@60Hz
D-Sub 1920*1080@60Hz
DVI 640*480@60Hz
DVI 1280*1024@60Hz
DVI 1680*1050@60Hz
DVI 1920*1080@60Hz
HDMI 720p
HDMI 1080p
HDMI 640*480@60Hz

Note: HDMI 640*480@60Hz was selected to perform the additional Radiated Emission Test.