

# HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.

Product Compliance Division, EMC Team SAN 136-1, AMI-RI, BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701, KOREA TEL: +82 31 639 8518 FAX: +82 31 639 8525

# TEST REPORT

Manufacture;

Aomni International

463-841) C-601 Inteli-G-2,Jeongja-Dong 24, Bundang-Gu Seongnam-Si, Gyeonggi-Do, Korea

FRN: 0016269607

Date of Issue: Apr. 30. 2007

Test Report No.: HCT-F07-0410

Test Site: HYUNDAI CALIBRATION & CERTIFICATION

TECHNOLOGIES CO., LTD.

HCT FRN: 0005-8664-21

FCC ID:

MODEL:

**U6DAL320V1** 

AL320V1

Rule Part(s):

Part 15 & 2

**Equipment Class:** 

FCC Class B Peripheral Device (JBP)

Standard(s):

FCC Class B: (CISPR 22)

LCD Panel:

Speaker R, Speaker L, PC Audio In, HDMI Out, D-Sub, Serial, Component Out,

Audio Out, S-Video Out, AV 3 In, AV 2 In, AV 1 In, TV ANT. In AC IN

LC320W01/ LG. PHILIPS LCD

This equipment has been shown to be in compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2003

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Report prepared by : Kyoung Houn, Seo

Test engineer of EMC Tech.Part

Approved by : Sang Jun LEE

Manager of EMC Tech.Part





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### **MEASUREMENT REPORT**

## 1. Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

**Applicant Name:** Aomni International

Address: 463-841) C-601 Inteli-G-2 Jeongja-Dong 24, Bundang-Gu

Seongnam-Si, Gyeonggi-Do, Korea

• **FCC ID**: U6DAL320V1

• Equipment Class: FCC Class B Peripheral Device (JBP)

• EUT Type: LCD TV Monitor

• **Model(s):** AL320V1

• Max input resolution: 1280 X 1024 X 60 Hz

• **Input power:** AC 100 ~ 240V 50/60 Hz

• Power consumption: 150 W

• **Rule Part(s):** FCC Part 15 Subpart B

• Test Procedure(s): ANSI C63.4 (2003)

• **Dates of Tests:** Apr. 25. 2007 ~ Apr. 27. 2007

• Place of Tests:

254-1,MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUNGKI-DO,467-701,KOREA





### 2. INTRODUCTION

The measurement procedure described in American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (ANSIC63.4-2003) was used in determining radiated and conducted emissions emanating from **Aomni International LCD TV Monitor FCC ID: U6DAL320V1** 

The open area test site and conducted measurement facility used to collect the radiated data are located at the 254-1, MAEKOK-RI, HOBUP-MYUN, ICHON-SI, KYOUNGKI-DO, 467-701, KOREA. The site is constructed in conformance with the requirements of ANSI C63.4and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23, 2003 (Confirmation Number: EA90661)



#### 3. PRODUCT INFORMATION

#### 3.1 Equipment Description

Equipment Under Test (EUT) is Aomni International LCD TV Monitor

(FCC ID: U6DAL320V1)

32" LCD TV

Function and Display Specification

Display Size 32-Inch 16: 9 Diagonal Screen

Display Mode Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)

Pixel Format 1366 X 768 Physical Pixel

Contrast Ratio 500 : 1 Brightness 500 cd/m²

Max Input Resolution 1280 X 1024 / 60Hz

PIP Advanced multi-windows viewing PIP (picture in picture) with four selectable window

positions on Video mode

Input Compatible Multiple input compatible

Video Advanced motion digital/Motion-Adaptive De-interlace process, Digital progressive line

scaling.

Tuner Module TV/CATV (ATSC)

Programming Favorite channel programming, Time Set, Set the Sleep timer HDTV Input 480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)

Color Temperature Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)

Dimension/Weight

Main Only 792mm (W) X 486.6mm (H) X 101mm (D) / 18 kg With Stand 792mm (W) X 554.6mm (H) X 270mm (D) / 20 kg With Stand and Speaker 992mm (W) X 554.6mm (H) X 270mm (D) / 24 kg

Miscellaneous

Audio Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable

audio output (optional)

External Control Front OSD Key Control, Remote Control, RS232C Control

Power Consumption

Input Power AC 100 ~ 240V 50/60Hz

Power Consumption 150 Watt (Max)

Connectivity

TV1, 2 Input RF/CATV (ATSC)

Composite Input/Output RCA X 4Port (AV Inpu 1, 2, 3)

COMPONENT Input RCA X 1Port (Y, Pb/Cb, Pr/Cr: 480i, 480p, 576i, 576p, 720p, 1080i)

S-VIDEO Input Mini Din 4Pin X 1Port

PC Input Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720p (50/60Hz), 1080i (50/60Hz))

AUDIO Input/Output RCA X 6Port

Speaker Output Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port

External Control Port Mini D-Sub 9Pin X 1Port

HDMI Port HDMI X 2Port

SPDIF Port SPDIF (Optical) X 1Port (5.1 Channel)

#### **EMI Suppression Devices:**

Modifications were made to the device. Please refer to the next page.

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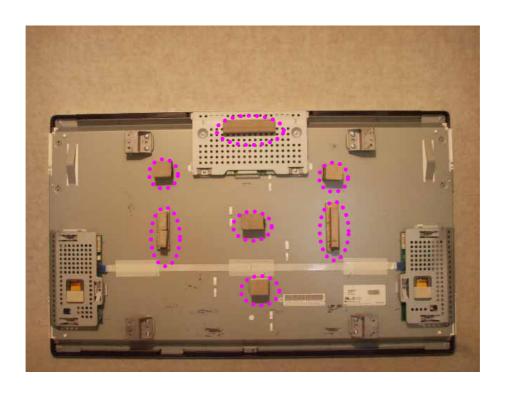
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#### 1. Attached the Core



#### 2. Attached the Gasket



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### 4. Description of Tests(Conducted)

### 4.1 Powerline Conducted RFI (150 kHz- 30 MHz)

The power line conducted RFI measurements were performed according to ANSI C63.4 (2003).

The EUT was placed on a non-conducting 1.0 by 1.5 meter table which is 0.8 meters in height and 0.40 meters away from the vertical wall of the shielded enclosure. Power to the EUT is provided through a Rohde & Schwarz 50  $\Omega$  / 50 uH Line Impedance Stabilization Network (LISN) and the support equipment through a separate Solar 50  $\Omega$  / 50 uH Line- Conducted Test Facility LISN. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer to determine the frequency producing the maximum EME. The spectrum was scanned from 150 kHz to 30 MHz. Each maximum EME was remeasured using an EMI receiver. The detector function of the receiver was set to CISPR quasi- peak and average mode with the bandwidth set to 9 kHz. Each emission was maximized consistent with the typical applications by varying the configuration of the test sample. Interface cables were connected to the available interface ports of the test unit. The effect of varying the position of cables was investigated to find the configuration that produces maximum Diagram emission. Excess cable lengths were bundled at the center with 30- 40cm. in length. The worst-case configuration is noted in the test report and the photographs are attached. Each EME reported was calibrated using the Rohde & Schwarz SMT signal generator and are listed on Table 1. RFI Conducted FCC Class B.

RFI CONDUCTED	FCC CLASS B Limits dB(uV)					
Freq. Range	Quasi-Peak	Average				
150 kHz - 0.5 MHz	66-56**	56-46**				
0.5 MHz – 5 MHz	56	46				
5 MHz – 30 MHz	60	50				
**Limits decreases linearly with the logarithm of frequency						

**Table 1. RFI Conducted Limits** 

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### 5. Description of Tests (Radiated)

#### **Radiated Emissions**

Preliminary measurements were made indoors at 3 meter using broadband antennas, broadband amplifier, and spectrum analyzer to determine the frequency producing the maximum EME. Appropriate precaution was taken to ensure that all EME from the EUT were maximized and investigated. The spectrum was scanned from 30 to 1000 MHz using Tri-log antenna, and above 1 GHz using linearly polarized horn antennas. For frequencies above 1 GHz, horn antennas were used. Sufficient time for the EUT, support equipment, and test equipment were allowed in order for them to warm up to their normal operating condition. The EMI receiver detector function was set to CISPR quasi-peak mode and the bandwidth of the receiver was set to 120 kHz. The EUT, support equipment, and interconnecting cables were arranged to the configuration that produces the maximum EME emission found during preliminary scan. The turntable containing the system was rotated; the antenna height was varied 1 to 4 meters and stopped at the azimuth or height producing the maximum emission. Horizontal and vertical antenna polarizations were checked. Each emission was maximized by: varying the mode of operation or resolution; clock or data exchange speed; scrolling H pattern to the EUT and/ or support equipment, and powering the monitor the computer aux AC outlet, if applicable; and changing the polarity of the antenna, whichever determined the worst-case emission.

Frequency (MHz)	FCC Limit @ 3m. Quasi- Peak dB[µV / m]	FCC Limit @ 10m.* Quasi – Peak dB [µV / m]	CISPR Limit @ 10m. Quasi-Peak dB [µV / m]					
30-88	40.0	29.5	30.0					
88-216	43.5	33.0	30.0					
216-230	46.0	35.6	30.0					
230-960	46.0	35.6	37.0					
960-1000	54.0	43.5	37.0					
> 1000	54.0	43.5	No Specified Limi					

Table 2. Radiated Class B limits @ 10-meters

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# 6. Support Equipment Used

DEVICE TYPE	MANUFACTURER	MODEL NUMBER	FCC ID / DoC	CONNECTED TO
LCD TV Monitor	Aomni International	AL320V1	DoC	EUT
PC	DELL	OPTIPLEXGX620	DoC	EUT END
Mouse	DELL	MO56U0	DoC	PC END
Serial Mouse	LOGITECH	M-M28	DoC	PC END
Keyboard	DELL	SK-8115	DoC	PC END
Printer	H.P	C4569A	DoC	PC END
MPEG-Recorder	Tektronix	MTX 100	DoC	-
MPEG-Recorder	Tektronix	MTX 100	DoC	-
All Channel Converter	EIDEN	4200C-006	DoC	-
8VSB Modulator	EIDEN	3313b-002	DoC	-
TV PATTERN GENERATOR	PROMAX	GV-698	DoC	-

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### **6.1 Cable Description**

		Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
	Speaker R	N/A	N	(D)0.3
	Speaker L	N/A	N	(D) 0.3
	PC Audio In	N/A	Y	(D)1.6
Con	HDMI Out	N/A	Y	(D)1.8
	D-Sub	N/A	Y	(D)1.8
(in	Serial	N/A	Y	(D)1.5
LCD TV Monitor	<b>Component Out</b>	N/A	Y	(D)1.6
(EUT)	Audio Out	N/A	Y	(D)1.6
	S-Video Out	N/A	Y	(D)1.6
	AV 3 In	N/A	Y	(D)1.6
Con	AV 2 In	N/A	Y	(D)1.6
Con	AV 1 In	N/A	Y	(D)1.6
	TV ANT. In	N/A	Y	(D)3.0
Con	AC IN	N	N/A	(P)1.8
	USB	N/A	Y	(D)1.8
	USB	N/A	Y	(D)1.8
PC	Serial	N/A	Y	(D)1.8
	Parallel	N/A	Y	(D)1.8
	AC In	N	N/A	(P)1.8
Monitor	AC In	N	N/A	(P)1.8
Printer	AC In	N	N/A	(P)1.8

The marked "(D)" means the Data Cable and "(P)" means the Power Cable.



### **6.2 Noise Suppression Parts on Cable. (I/O CABLE)**

		Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
	Speaker R	Y	EUT END	N	N/A
	Speaker L	Y	EUT END	N	N/A
	PC Audio In	N	N/A	Y	Both END
	HDMI Out	N	N/A	Y	Both END
	D-Sub	Y	Both END	Y	Both END
(1)	Serial	N	N/A	Y	Both END
LCD TV Monitor (EUT)	<b>Component Out</b>	N	N/A	Y	Both END
	Audio Out	N	N/A	Y	Both END
	S-Video Out	N	N/A	Y	Both END
	AV 3 In	N	N/A	Y	Both END
	AV 2 In	N	N/A	Y	Both END
	AV1 In	N	N/A	Y	Both END
(0)	TV ANT. Out	N	N/A	Y	Both END
	USB	N	N/A	Y	PC END
n.c.	USB	N	N/A	Y	PC END
PC	USB	N	N/A	Y	PC END
	Parallel	N	N/A	Y	Both END

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### 7. CONDUCTED TEST DATA

#### [D-Sub mode]

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EMC TEST LAB.

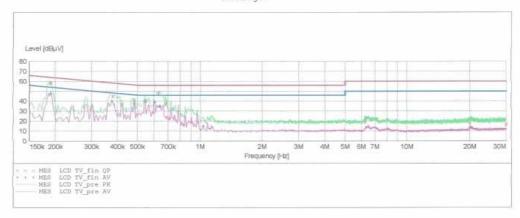
Manufacturer: AL320V1

Manufacturer: ALMINI
Operating Condition: 1280 X 1024 60Hz
Test Site: SHIELD ROOM
Operator: KH-SEO

Operator: KH-SEO
Test Specification: CISPR 22 CLASS B
Comment: H

SCAN TABLE: "CISPR 22 Voltage"
Short Description: CISPR 22 Voltage
Start Stop Step Detector Meas. IF
Frequency Frequency Width Time Bandw.
150.1 kHz 500.0 kHz 2.5 kHz MaxPeak 10.0 ms 9 kHz Transducer

None Average 500.0 kHz 5.0 MHz 5.0 kHz MaxPeak 10.0 ms 9 kHz Average None 5.0 MHz 30.0 MHz 5.0 kHz MaxPeak 10.0 ms 9 kHz None Average



#### MEASUREMENT RESULT: "LCD TV fin QP"

4/25/2007	3:3	8PM					
Frequen M	cy Hz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.1901	00	58.50	10.0	64	5.5		
0.3801	00	45.20	10.0	58	13.1		
0.4826	0.0	40.80	10.1	56	15.5	20.00	-
0.5450	00	41.10	10.1	56	14.9		$\cdots \cdots \cdots$
0.6300	00	47.70	10.1	56	8.3		100.00
0.6800	00	37.30	10.1	56	18.7		
6.2700	00	19.60	10.8	60	40.4		-
20.0400	00	18.60	12.3	60	41.4		-
29.9950	00	17.00	12.8	60	43.0		

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MEASUREMENT		: "LCD	TV_fil	a AV"		
4/25/2007 3:3 Frequency MHz	8PM Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.190100	47.50	10.0	54	6.6		222
0.377600	40.20	10.0	48	8.1		
0.482600	38.20	10.1	46	8.1	$m_{\rm c} > 0.00$	
0.540000	40.20	10.1	46	5.8	-	
0.605000	39.20	10.1	46	6.8		
0.640000	34.90	10.1	46	11.1	-	
6.485000	14.50	10.8	50	35.5	=	
16.365000	10.90	12.1	50	39.1		
20.165000	13.80	12.3	50	36.2	-	

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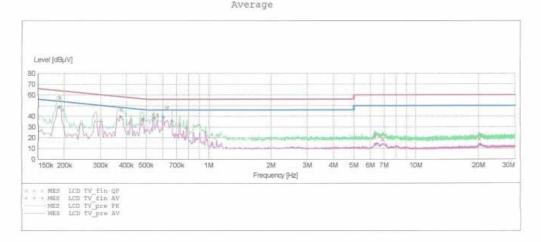
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#### EMC TEST LAB.

EUT: AL320V1
Manufacturer: AOMNI
Operating Condition: 1280 X 1024 60Hz
Test Site: SHIELD ROOM
Operator: KH-SEO Test Specification: CISPR 22 CLASS B

Comment:

SCAN TABLE: "CISPR 22 Voltage"
Short Description: CISPR 22 Voltage
Start Stop Step Detector Meas
Frequency Frequency Width Time
150.1 kHz 500.0 kHz 2.5 kHz MaxPeak 10.0 Detector Meas. IF Transducer Time Bandw. 10.0 ms 9 kHz Bandw. None Average 500.0 kHz 5.0 MHz 5.0 kHz MaxPeak 10.0 ms 9 kHz Average 5.0 MHz 30.0 MHz 5.0 kHz MaxPeak 10.0 ms 9 kHz None



#### MEASUREMENT RESULT: "LCD TV fin QP"

4/	25/2007	3:3	5 PM					
	Frequenc M	iy iz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
	0.19010	00	57.80	10.0	64	6.3		
	0.37760	0 (	46.40	10.0	58	11.9	2000	
	0.47510	0.0	37.10	10.1	56	19.3		
	0.54000	0.0	41.60	10.1	56	14.4		
	0.56500	00	41.10	10.1	56	14.9		
	0.63000	00	47.60	10.1	56	8.4		
	6.29500	0.0	20.80	10.8	60	39.2		
	6.86500	0.0	19.00	10.9	60	41.0		
	20.21500	0.0	19.50	12.3	60	40.5		

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MEASUREMENT	RESULT	: "LCD	TV_fiz	a AV"		
	35PM	man and	Tiwik	Monada	* * * * * *	PE
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.190100	48.90	10.0	54	5.1	2000	
0.375100	39.90	10.0	48	8.5		
0.482600	38.10	10.1	46	8.2		
0.545000	38.70	10.1	46	7.3		
0.605000	39.40	10.1	46	6.6		
0.665000	35.70	10.1	46	10.3		
6.430000	14.40	10.8	50	35.6		
16.170000	11.00	12.0	50	39.0		
20.375000	13.50	12.3	50	36.5		

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#### **NOTES:**

- 1. All modes of operation were investigated, and the worst-case emissions are reported.
- 2. The conducted limits are listed on Table 1 (Page 7).
- 3. Line H = Hot Line N = Neutral

\*\* Measurements using CISPR quasi-peak mode.

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### 8. RADIATED TEST DATA

[D-Sub]

Frequency	Reading	Ant. Factor	Cable Loss	ANT POL	Total	Limit	Margin
MHz	dBuV	dB/m	dB	(H / V)	dBuV/m	dBuV/m	dB
315.0	14.1	13.0	4.1	н	31.2	37.0	5.8
472.4	10.2	16.6	5.0	٧	31.8	37.0	5.2
539.9	9.3	17.8	5.3	٧	32.4	37.0	4.6
658.6	7.4	19.8	5.9	٧	33.1	37.0	3.9
823.2	4.9	22.1	6.5	Н	33.5	37.0	3.5

Radiated Measurements at 10-meters.

#### NOTES:

- 1. All modes of operation were investigated, and the worst-case emissions are reported.
- 2. The radiated limits are listed on Table 2 (Page 8).

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<sup>\*\*\*</sup> Measurements using CISPR quasi-peak mode.



# 9. Sample Calculations

dB 
$$\mu V = 20 \log_{10}(\mu V)$$

$$dB \mu V = dBm + 107$$

### **9.1 Example 1:**

@ 0.1901 MHz

Class B limit =  $54.0 \text{ dB } \mu\text{V}$ 

Reading =  $48.9 \, dB \, \mu V$  (calibrated level)

**Margin** =  $48.9 - 54.0 = -5.1 \text{ dB } \mu\text{V}$ 

= 5.1 dB below limit

### **9.2 Example 2:**

@ 823.2 MHz

Class B limit =  $37.0 \text{ dB } \mu\text{V/ m}$ 

Reading =  $4.9 \text{ dB } \mu\text{V} /\text{m} \text{ (calibrated level)}$ 

Antenna Factor + Cable Loss = 28.6 dBTotal =  $33.5 \text{ dB } \mu\text{V/m}$ 

**Margin** =  $33.5 - 37.0 = -3.5 \text{ dB } \mu\text{V/m}$ 

= 3.5 dB below limit



# 10. Test Equipment

<u>Type</u>	<b>Manufacture</b>	Model Number	CAL Due Date
Conducted Emission			
EMI Test Receiver	Rohde & Schwarz	ESCI	2007.08.24
LISN	Rohde & Schwarz	ESH2-Z5	2008.04.20
LISN	EMCO	3816/2SH	2008.02.03
PULSE LIMITER	Rohde & Schwarz	ESH3-Z2	2007.10.30
Radiated Emission			
EMI Test Receiver	Rohde & Schwarz	ESCI40	2007.11.06
TRILOG Antenna	Schwarzbeck	9168	2008.03.19
<b>Antenna Position Tower</b>	HD	MA240	N/A
Turn Table	EMCO	1050	N/A
Controller	HD GmbH	HD 100	N/A
Slide Bar	HD GmbH	KMS 560	N/A

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### 11. Test Software Used

The EUT was acted standby mode during radiated and conducted testing.

NOTE: This is a sample of the basic program used during the test. However, during testing, a different software program may be used; whichever determines the worst-case condition. In addition, the program used also depends on the number and type of devices being tested.

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### 12. Conclusion

The data collected shows that **Aomni International LCD TV Monitor (FCC ID: U6DAL320V1)** complies with §15.107 and §15.109 of the FCC Rules.

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