

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
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TEST REPORT

Manufacture;
HYUNDAI IMAGEQUEST CO., LTD.

**SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI,
KYOUNKI-DO, 467-701, KOREA**

HYUNDAI IMAGEQUEST FRN : 0005-8664-39

Date of Issue : February 02, 2006

Test Report No.: HCT-F06-0209

**Test Site: HYUNDAI CALIBRATION & CERTIFICATION
TECHNOLOGIES CO., LTD.**

HCT FRN : 0005-8664-21

FCC ID :

PJIPT42DA000

TYPE:

PT42DA000

Rule Part(s): Part 15 & 2
Equipment Class: FCC Class B Peripheral Device (JBP)
Standard(s): FCC Class B: (CISPR 22)
EUT Type: PDP TV
Max. Resolution(s): 1024 X 768 (@/85Hz)
Port/Connector(s): D-SUB, DVI, Audio L/R
LCD TV: D SUB, DVI, Serial, Audio In, Sub Woofer, Component 1, Component 2,
Composite 1, Composite 2, S-VIDEO, ANT

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
: Gyeong Seon KIM
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:	HYUNDAI IMAGEQUEST
Address:	SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701,KOREA

- FCC ID : PJIPT42DA000
- Equipment Class: FCC Class B Peripheral Device (JBP)
- EUT Type: PT42DA000
- Max. Resolution: 1024 X 768 (@85Hz)
- Power Cord: Unshielded
- Panel: S42AX-YD01/SAMSUNG
- Rule Part(s): FCC Part 15 Subpart B
- Test Procedure(s): ANSI C63.4 (2003)
- Dates of Tests: January 21, 2006 ~ January 24, 2006
- Place of Tests: 254-1,MAEKOK-RI,HOBUP-MYUN,ICHON-SI,KYOUNGKI-DO,467-701,KOREA

2.1 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 9kHz to 40GHz (ANSI C63.4-2003) was used in determining radiated and conducted emissions emanating from **HYUNDAI IMAGEQUEST CO.,LTD. PDT TV FCC ID: PJIPT42DA000**

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 C63.4 and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 23, 2003 (Confirmation Number: EA90661)

3.1 PRODUCT INFORMATION

3.2 Equipment Description

Equipment Under Test (EUT) is the **HYUNDAI IMAGEQUEST CO.,Ltd. (Model : PT42DA000)**
PDP TV

FCC ID: **PJIPT42DA000**

Port(s)/Input: Full-Scart: 1(A/V), Half-Scart: 1(A/V), S-Video: 1(A/V audio common),
Video(RCA): 1(A/V audio included), Component(Y/Cb/Cr): 2(Audio included),
Antenna: 1

Pc Connection jack: D-SUB

Maximum Resolution(s): **1024 X 768(@85Hz)**

DVI-HDCP: **1**

Power Supply: **AC 100-240 V, 50/60 Hz**

Consumption Power : **Typical 380W**

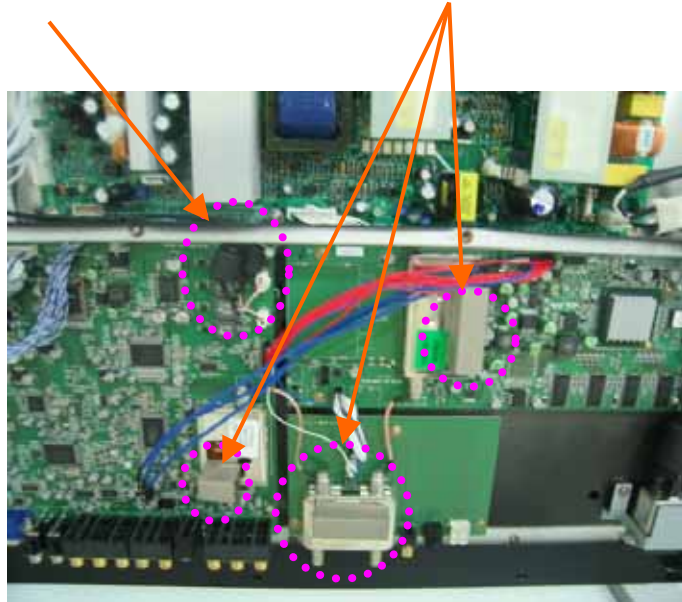
Dimensions (WxHxD mm-Stand included): **1030x79x716mm (WxHxD)**

Weight (Net):**32Kg unpacked**

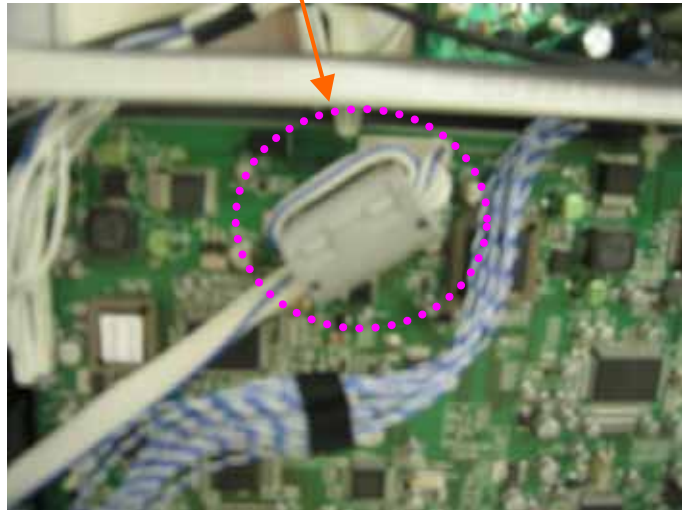
EMI Suppression Devices:

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

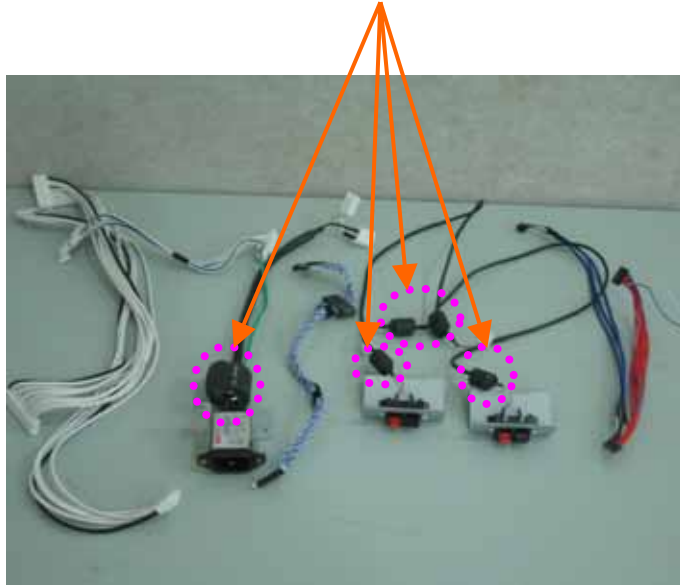
1. Applied to the CORE in the Board and attached the gasket to the tuner



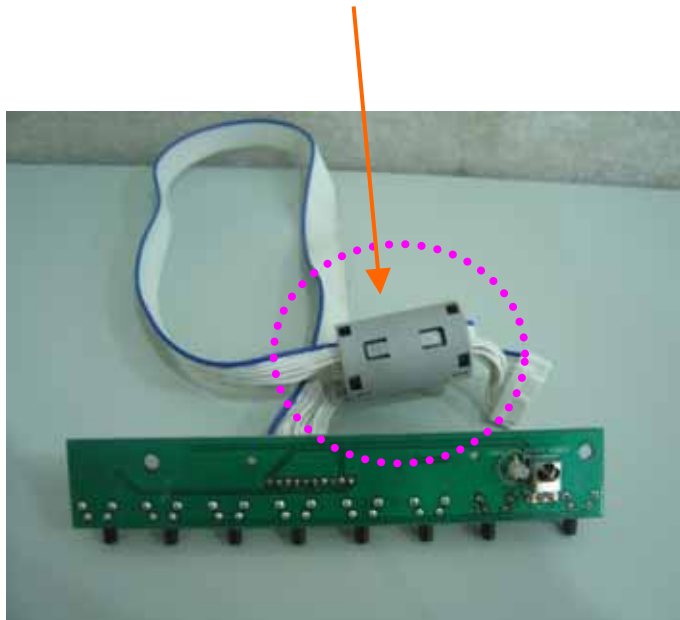
2. Attach the CORE in the Board



3. Attached the CORE in the cable type



4. Attached the CORE in the OSD board back side.



4.1 Description of Tests(Conducted)

4.2 Powerline Conducted RFI (150kHz- 30MHz)

The power line conducted RFI measurements were performed according to CISPR 22.

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 Ω / 50 uH Line Impedance Stabilization Network (LISN) and the support equipment through a separate Solar 50 Ω / 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 150kHz 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.

RFI CONDUCTED	CISPR 22 CLASS B Limits dB(uV/m)	
	CISPR 22 Quasi-Peak	CISPR 22 Average
Freq. Range		
150kHz - 0.5MHz	66-56**	56-46**
0.5MHz - 5MHz	56	46
5MHz - 30MHz	60	50
**Limits decreases linearly with the logarithm of frequency		

Table 1. RFI Conducted Limits

4.3 Description of Tests(Radiated)

Radiated Emissions

Preliminary measurements were made indoors at 1 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 300 MHz using biconical antenna, 300 to 1000 MHz using log- periodic antenna, and above 1 GHz using linearly polarized horn antennas. Final measurements were made outdoors at 10-meter test range using Dipole antennas and EMI receiver. 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.

ITE Radiated Limits			
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 Limit
* Limit extrapolated 20 dB/decade			

Table 2. Radiated Class B limits @ 10-meters

5.1 Support Equipment Used

DEVICE TYPE	MANUFACTURER	TYPE NUMBER	FCC ID / DoC	CONNECTED TO
PDP TV (EUT)	HYUNDAI IMAGE QUEST CO., LTD	PT42DA000	PJIPT42DA000	P.C END

DEVICE TYPE	MANUFACTURER	MODEL NUMBER	FCC ID / DoC	CONNECTED TO
P.C	DELL	D1WHG1S	DoC	EUT END
Mouse	DELL	527074625	DoC	P.C END
Serial Mouse	LOGITECH	LC3141007148	DoC	P.C END
Key Board	DELL	-	DoC	P.C END
Printer	H.P	SG27D1400V	DoC	P.C END
MPEG-Recoder	Tektronix	J310478	DoC	EUT END
MPEG-Recoder	Tektronix	J310478	DoC	EUT END
All Channel Converter	EIDEN	EJ96182	DoC	EUT END
8vsb Modulator	EIDEN	EJ96656	DoC	EUT END
TV PATTEN GENERATOR	PROMAX	GV698AEU119	DoC	EUT END

5.2 Cable Description

		Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
PDP TV	Power	N	N/A	1.8(P)
	D Sub	N/A	Y	1.8(D)
	DVI	N/A	Y	1.8(D)
	Serial	N/A	Y	1.8(D)
	Audio In	N/A	Y	1.8(D)
	Sub Woofer	N/A	Y	1.8(D)
	Component1	N/A	Y	1.8(D)
	Component2	N/A	Y	1.8(D)
	Composite1	N/A	Y	1.8(D)
	Composite2	N/A	Y	1.8(D)
	S-VIDEO	N/A	Y	1.8(D)
	ANT	N/A	Y	3.0(D)
PC	PC	N	N/A	1.8(P)
	Key Board	N/A	Y	2.1(D)
	Mouse	N/A	Y	1.8(D)
	Printer	N	Y	1.8(P)1.8(D)

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

5.3 Noise Suppression Parts on Cable. (I/O CABLE)

		Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
PDP TV	D Sub	Y	BOTH END	Y	BOTH END
	DVI	Y	BOTH END	Y	BOTH END
	Serial	Y	BOTH END	Y	BOTH END
	Audio In	-	-	Y	BOTH END
	Sub Woofer	N	N/A	Y	BOTH END
	Component1	N	N/A	Y	BOTH END
	Component2	N	N/A	Y	BOTH END
	Composite1	N	N/A	Y	BOTH END
	Composite2	N	N/A	Y	BOTH END
	S-VIDEO	-	-	Y	BOTH END
ANT	N	N/A	Y	BOTH END	
PC	PC	N	N/A	N/A	N/A
	Key Board	N	N/A	Y	PC END
	Mouse	N	N/A	Y	PC END
	Printer	N	N/A	Y	BOTH END

6.1 LINE-CONDUCTED TEST DATA

[Analog]

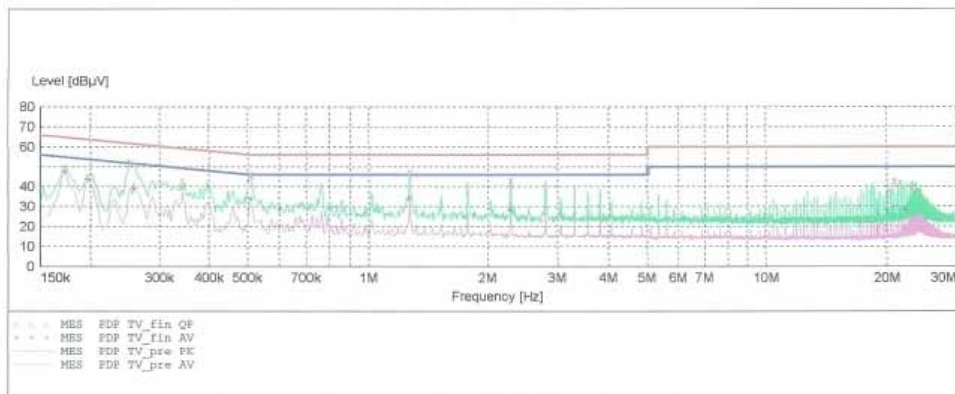
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EMC TEST LAB

EUT: PT42DA000
 Manufacturer: HYUNDAI IMAGEQUEST CO., LTD.
 Operating Condition: 1024 X 768 85Hz
 Test Site: SHIELD ROOM
 Operator: GS-KIM
 Test Specification: CISPR 22 CLASS B
 Comment: H

SCAN TABLE: "CISPR 22 Voltage"

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



MEASUREMENT RESULT: "PDP TV_fin QP"

1/21/2006 1:40AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.172600	49.40	10.1	65	15.5	---	---
0.252600	52.40	10.1	62	9.2	---	---
0.342600	40.20	10.1	59	19.0	---	---
0.510000	46.10	10.1	56	9.9	---	---
1.270000	47.20	10.2	56	8.8	---	---
2.290000	43.00	10.3	56	13.0	---	---
20.850000	42.80	10.5	60	17.2	---	---
21.610000	41.80	10.6	60	18.2	---	---
23.135000	39.90	10.6	60	20.1	---	---

MEASUREMENT RESULT: "PDP TV_fin AV"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.172600	47.30	10.1	55	7.5	---	---
0.197600	43.90	10.1	54	9.8	---	---
0.257600	38.90	10.1	52	12.6	---	---
0.510000	33.90	10.1	46	12.1	---	---
1.270000	34.00	10.2	46	12.0	---	---
2.290000	28.60	10.3	46	17.4	---	---
20.085000	28.30	10.5	50	21.7	---	---
20.850000	29.80	10.5	50	20.2	---	---
22.375000	28.10	10.6	50	21.9	---	---

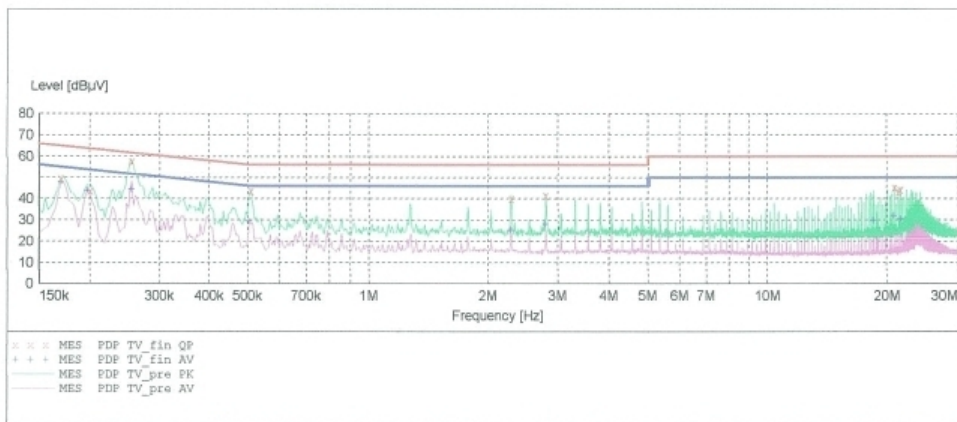
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EMC TEST LAB

EUT: PT42DA000
 Manufacturer: HYUNDAI IMAGEQUEST CO.,LTD.
 Operating Condition: 1024 X 768 85Hz
 Test Site: SHIELD ROOM
 Operator: GS-KIM
 Test Specification: CISPR 22 CLASS B
 Comment: N

SCAN TABLE: "CISPR 22 Voltage"

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



MEASUREMENT RESULT: "PDP TV_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.170100	49.40	10.1	65	15.6	---	---
0.200100	44.00	10.1	64	19.6	---	---
0.255100	57.70	10.1	62	3.9	---	---
0.510000	43.60	10.1	56	12.4	---	---
2.290000	40.20	10.3	56	15.8	---	---
2.795000	41.60	10.2	56	14.4	---	---
20.850000	45.10	10.5	60	14.9	---	---
21.355000	43.30	10.6	60	16.7	---	---
21.610000	44.20	10.6	60	15.8	---	---

MEASUREMENT RESULT: "PDP TV_fin AV"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.170100	47.80	10.1	55	7.1	---	---
0.197600	43.90	10.1	54	9.8	---	---
0.255100	44.40	10.1	52	7.2	---	---
0.505000	29.30	10.1	46	16.7	---	---
2.285000	25.10	10.3	46	20.9	---	---
2.795000	28.00	10.2	46	18.0	---	---
18.560000	29.70	10.5	50	20.3	---	---
20.850000	31.80	10.5	50	18.2	---	---
21.610000	30.50	10.6	50	19.5	---	---

[Digital]

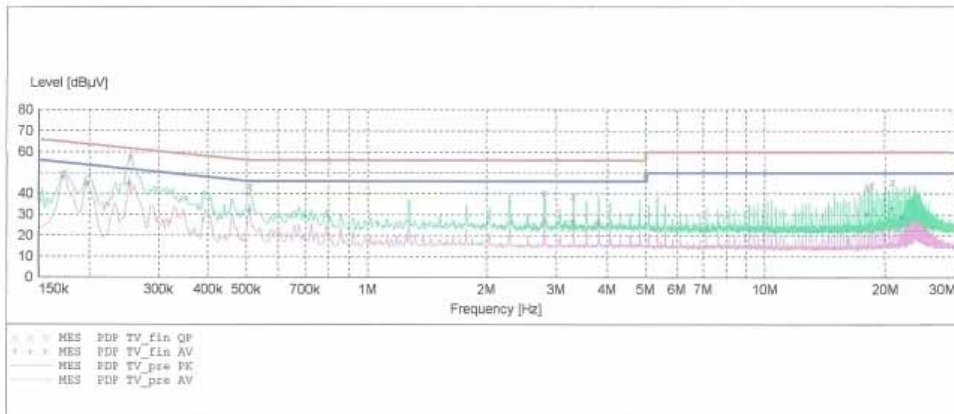
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EMC TEST LAB

EUT: PT42DA000
 Manufacturer: HYUNDAI IMAGEQUEST CO.,LTD.
 Operating Condition: 1024 X 768 85Hz (D)
 Test Site: SHIELD ROOM
 Operator: GS-KIM
 Test Specification: CISPR 22 CLASS B
 Comment: N

SCAN TABLE: "CISPR 22 Voltage"

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.1 kHz	500.0 kHz	2.5 kHz	MaxPeak	10.0 ms	9 kHz	None
500.0 kHz	5.0 MHz	5.0 kHz	Average	10.0 ms	9 kHz	None
5.0 MHz	30.0 MHz	5.0 kHz	MaxPeak	10.0 ms	9 kHz	None
			Average			



MEASUREMENT RESULT: "PDP TV_fin QP"

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Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.172600	49.80	10.1	65	15.0	---	---
0.197600	45.50	10.1	64	18.2	---	---
0.255100	57.70	10.1	62	3.9	---	---
0.510000	43.50	10.1	56	12.5	---	---
2.795000	40.70	10.2	56	15.3	---	---
3.305000	39.00	10.2	56	17.0	---	---
18.050000	43.30	10.5	60	16.7	---	---
18.560000	44.30	10.5	60	15.7	---	---
20.850000	45.80	10.5	60	14.2	---	---

MEASUREMENT RESULT: "PDP TV_fin AV"

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Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.172600	48.00	10.1	55	6.8	---	---
0.197600	44.60	10.1	54	9.1	---	---
0.252600	44.50	10.1	52	7.2	---	---
0.510000	31.80	10.1	46	14.2	---	---
3.305000	26.90	10.2	46	19.1	---	---
3.815000	26.30	10.3	46	19.7	---	---
18.050000	30.00	10.5	50	20.0	---	---
20.845000	33.20	10.5	50	16.8	---	---
22.120000	29.00	10.6	50	21.0	---	---

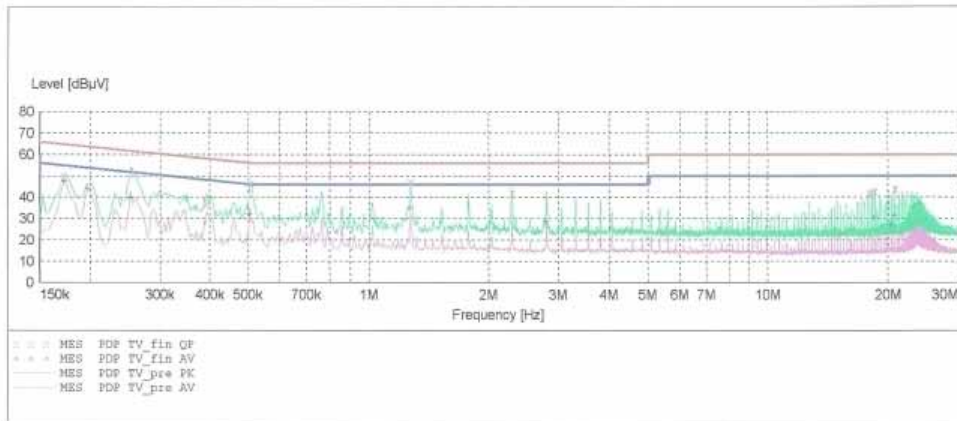
HCT

EMC TEST LAB

EUT: PT42DA000
 Manufacturer: HYUNDAI IMAGEQUEST CO.,LTD.
 Operating Condition: 1024 X 768 85Hz (D)
 Test Site: SHIELD ROOM
 Operator: GS-KIM
 Test Specification: CISPR 22 CLASS B
 Comment: H

SCAN TABLE: "CISPR 22 Voltage"

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



MEASUREMENT RESULT: "PDP TV_fin QP"

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Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.172600	49.60	10.1	65	15.2	---	---
0.255100	52.80	10.1	62	8.8	---	---
0.392600	37.20	10.1	58	20.8	---	---
0.510000	46.30	10.1	56	9.7	---	---
1.270000	47.20	10.2	56	8.8	---	---
2.290000	42.30	10.3	56	13.7	---	---
18.050000	42.00	10.5	60	18.0	---	---
18.560000	42.70	10.5	60	17.3	---	---
20.850000	43.90	10.5	60	16.1	---	---

MEASUREMENT RESULT: "PDP TV_fin AV"

1/21/2006 1:51AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.172600	47.40	10.1	55	7.4	---	---
0.197600	44.10	10.1	54	9.6	---	---
0.252600	39.70	10.1	52	11.9	---	---
0.505000	32.20	10.1	46	13.8	---	---
1.270000	34.70	10.2	46	11.3	---	---
2.795000	28.70	10.2	46	17.3	---	---
18.560000	30.40	10.5	50	19.6	---	---
20.340000	27.20	10.5	50	22.8	---	---
20.845000	31.40	10.5	50	18.6	---	---

NOTES:

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

** Measurements using CISPR quasi-peak mode.

7.1 RADIATED TEST DATA

[Analog]

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss Db	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
38.9	8.2	11.5	1.3	V	21.0	30	-9.0
120.1	6.5	11.5	2.4	V	20.4	30	-9.6
218.7	7.8	10.2	3.3	H	21.3	30	-8.7
265.0	14.6	11.8	3.7	V	30.1	37	-6.9
281.7	14.8	12.4	3.8	H	31.0	37	-6.0
313.8	13.9	13.3	4.1	H	31.3	37	-5.7

[Digital]

Frequency MHz	Reading dBuV	Ant. Factor dB/m	Cable Loss Db	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
38.9	8.3	11.5	1.3	V	21.1	30	-8.9
146.0	5.4	12.9	2.7	V	21.0	30	-9.0
188.7	7.1	10.5	3.1	H	20.7	30	-9.3
241.0	15.9	11.0	3.5	V	30.4	37	-6.6
284.3	14.8	12.5	3.9	H	31.2	37	-5.8
360.0	13.2	14.1	4.4	H	31.7	37	-5.3

Radiated Measurements at 10-meters.

1024 X 768(@85Hz)

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).

*** Measurements using CISPR quasi-peak mode. Above 1GHz, peak detector function mode is used using a resolution bandwidth of 1MHz and a video bandwidth of 1MHz. The peak level complies with the average limit. Peak mode is used with linearly polarized horn antenna and low-loss microwave cable.

8.1 Sample Calculations

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

8.2 Example 1:

@ 0.2551 KHz

Class B limit = 62.0 dB μV
Reading = 57.7 dB μV (calibrated level)

Margin = 57.7 – 62.0 = - 4.3 dB μV
= **4.3 dB below limit**

8.3 Example 2:

@360. 0MHz

Class B limit = 37 dB $\mu\text{V}/\text{m}$
Reading = 13.2 dB $\mu\text{V}/\text{m}$ (calibrated level)
Antenna Factor + Cable Loss = 18.5 dB
Total = 31.7 dB $\mu\text{V}/\text{m}$

Margin = 31.7 - 37.0 = - 5.3 dB $\mu\text{V}/\text{m}$
= **5.3 dB below limit**

9.1 Test Equipment

<u>Type</u>	<u>Manufacture</u>	<u>Model Number</u>	<u>CAL Due Date</u>
EMI Test Receiver	Rohde & Schwarz	ESVS30	2006.07.01
EMI Test Receiver	Rohde & Schwarz	ESCI	2006.09.13
LISN	Rohde & Schwarz	ESH2-Z5	2006.04.26
LISN	EMCO	703125	2006.04.26
TRILOG Antenna	Schwarzbeck	9160	2006.03.31
Antenna Position Tower	HD	MA240	N/A
Turn Table	EMCO	1050	N/A
Power Analyzer	Voltech	PM 3300	2006.03.22
Reference Network Impedance	Voltech	IEC 555	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
AC Power Source	PACIFIC	360-AMX	2006.11.25
Controller	HD GmbH	HD 100	N/A
SlideBar	HD GmbH	KMS 560	N/A
PULSE LIMITER	Rohde & Schwarz	ESH3-Z2	2006.11.16

10.1 Test Software Used

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software, contained on a 3-1/2 inch disc, was inserted into drive A and is auto starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is :(1) Display test, (2) RS 232 test (3) Key board test,(4) Printer test,(5) FDD test,(6) HDD test. The complete cycle takes about 20 seconds and is repeated continuously. As the keyboard and mouse are strictly input devices, no data is transmitted to them during test. They are however, continuously scanned for data input activity. The video resolution modes setup and change program was used during the radiated and conducted emission 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.

Actual program used is the "H" pattern in Notepad under Windows environment. All resolution modes (1024x768, 800x600, 640x480, 720x400) were investigated and tested

11.1 Conclusion

The data collected shows that the **HYUNDAI IMAGEQUEST CO., LTD.** PDP TV
FCC ID:PJIPT42DA000 complies with §15.107 and §15.109 of the FCC Rules.