



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

CERTIFICATION

Manufacture;
IMAGEQUEST CO., LTD.

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

IMAGEQUEST FRN : 0005-8664-39

Date of Issue : JULY 14, 2003

Test Report No.: HCT-F03-0701

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

HCT FRN : 0005-8664-21

FCC ID :

PJIP4200S001

MODEL / TYPE :

PD421/P4200S001

Rule Part(s):	Part 15 & 2; ET Docket 95-19
Equipment Class:	FCC Class B Peripheral Device (JBP)
Standard(s):	FCC Class B: 1998 (CISPR 22)
EUT Type:	42" PDP Monitor
Max. Resolution(s):	1024 X 768 (@68.68KHz/ 85Hz)
Model(s):	PD421
Port/Connector(s)	RS-232, Phone Jack, DVI, PC audio input, D-SUB, Component input for DTV, DTV audio input, Component input for DVD, DVD audio, S-video, VCR video Composite, VCR audio, SCART, POWER, SPEAKER

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 C63.4-1992 (Grant Notes: #19, #28).

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 : Ki-Soo Kim

Manager of EMC Tech. Part



HYUNDAI CALIBRATION & CERTIFICATION TECH. CO., LTD.



TABLE OF CONTENTS

PAGE

REPORT COVER	1
TABLE OF CONTENTS	2
1.1 SCOPE	3
2.1 INTRODUCTION (SITE DESCRIPTION)	4
3.1 PRODUCTION INFORMATION	5-7
4.1 DESCRIPTION OF TESTS (CONDUCTED)	8
4.3 DESCRIPTION OF TESTS (RADIATED)	9
5.1 LIST OF SUPPORT EQUIPMENT	10-12
6.1 TEST DATA (CONDUCTED)	13-17
7.1 TEST DATA (RADIATED)	18
8.1 SMPLE CALCULATIONS	19
9.1 TEST EQUIPMENT	20
10.1 TEST SOFTWARE USED	21
11.1 CONCLUSION	22

ATTACHMENT A: FCC ID LABEL & LOCATION

ATTACHMENT B: EXTERNAL PHOTOGRAPHS

ATTACHMENT C: BLOCK DIAGRAM

ATTACHMENT D: TEST SETUP PHOTOGRAPHS

ATTACHMENT E: USER'S MANUAL

ATTACHMENT F-1: INTERNAL PHOTOGRAPHS

ATTACHMENT F-2: INTERNAL PHOTOGRAPHS

ATTACHMENT F-3: INTERNAL PHOTOGRAPHS

ATTACHMENT G: CIRCUIT DIAGRAMS

MEASUREMENT REPORT

1.1 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:	IMAGEQUEST
Address:	SAN 136-1, AMI-RI , BUBAL-EUP, ICHEON-SI, KYOUNKI-DO, 467-701,KOREA

- **FCC ID : PJIP4200S001**
- Equipment Class: FCC Class B Peripheral Device (JBP)
- EUT Type: 42" PDP MONITOR
- Model(s): PD421
- Rule Part(s): FCC Part 15 Subpart B
- Test Procedure(s): ANSI C63.4 (1992)
- Dates of Tests: June 25, 2003 ~ July 3, 2003
- 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 C63.4-1992) was used in determining radiated and conducted emissions emanating from **IMAGEQUEST CO.,LTD. 42-inch PDP Monitor FCC ID: PJIP4200S001**

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 24, 2000 (Confirmation Number: EA90661)

3.1 PRODUCT INFORMATION

3.2 Equipment Description

Equipment Under Test (EUT) is the **IMAGEQUEST CO.,Ltd.**

Model : PD421, 42-inch PDP Monitor

FCC ID : **PJIP4200S001**

Maximum Resolution(s): 1024 X 768 (@68.68KHz/ 85Hz)

Frequency Range(s): H-Sync: 31KHz – 68KHz
V-Sync: 70Hz – 85 Hz

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

Power Cord: *Unshielded* AC power cord

Port(s)/Input Connector(s): RS-232, Phone Jack, DVI, PC audio input, D-SUB, DTV Component, DTV audio input, DVD Component, DVD audio input, S-video, VCR video Composite, VCR audio, SCART, POWER, SPEAKER

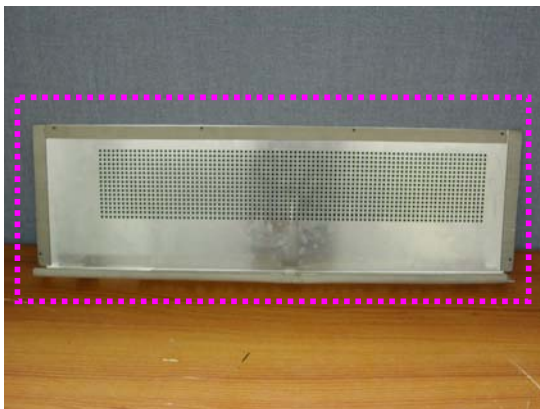
Cable(s): RS-232, Phone Jack, Shielded DVI (with ferrite on both ends), PC audio input, Shielded D-Sub (with ferrite on both ends), Component input for DTV, DTV audio input, Component input for DVD, DVD audio, S-video, VCR video Composite, VCR audio, SCART, POWER, SPEAKER

Pixel : Horizontal : 852, Vertical : 480 DOT

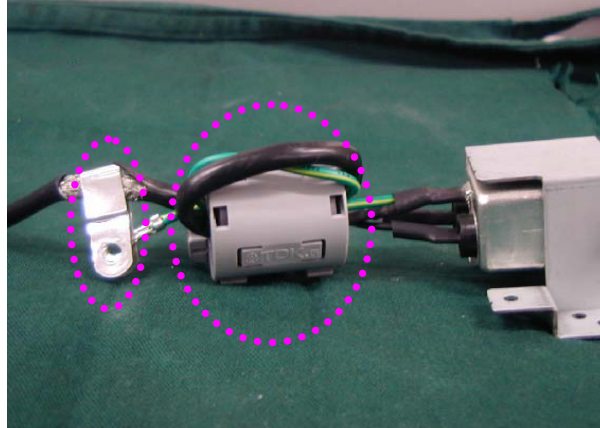
Weight (Net) : 32Kg with package, 26Kg net product

EMI Suppression Devices:

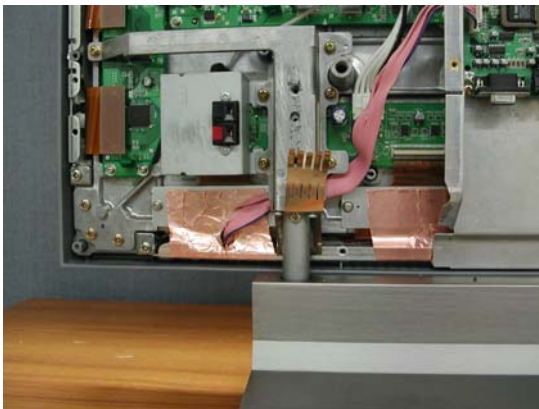
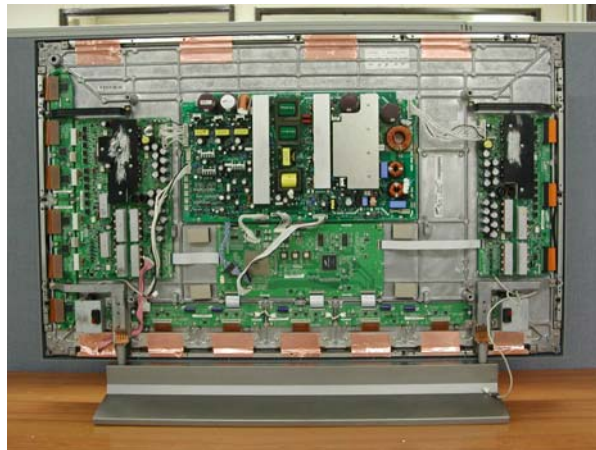
1. Attach a gasket to the Board cover and main cover



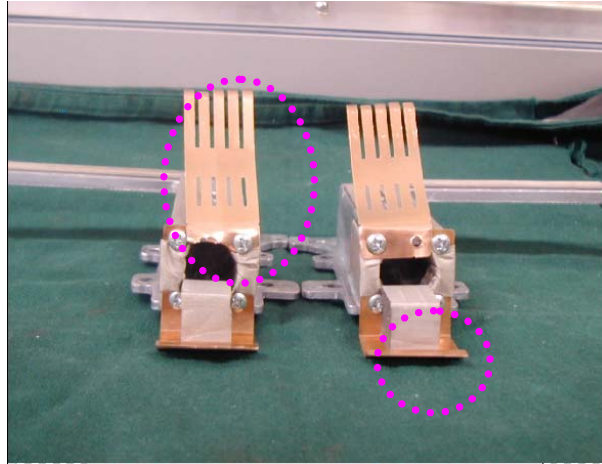
2. Apply a ferrite Core to the Power Cable and Green(Ground) cable drive a screw in Main frame



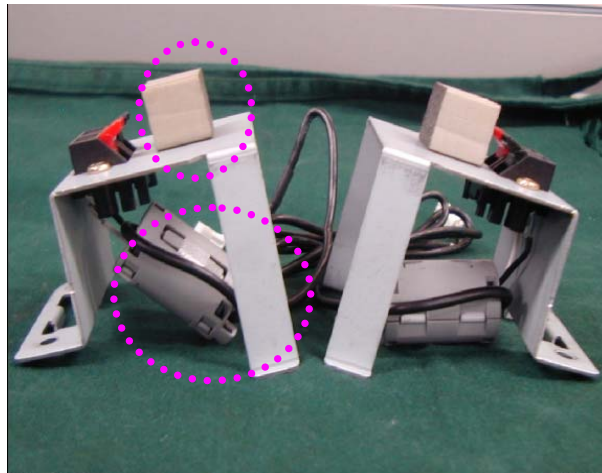
3. Attach a copper foil between main frame and EMI filter shield



4. Attach a gasket & finger strip to the Stand hole



5. Attach a gasket Speaker input assembly frame and apply ferrite core to signal line



6. Apply a ferrite Core to the speaker cable and shorten it (12 inch)



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 centre 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 SMX signal generator and are listed on Table 1. RFI Conducted FCC Class B

RFI CONDUCTED	FCC CLASS B Limits dB(uV/m)	CISPR 22 CLASS B Limits dB(uV/m)	
Freq. Range	FCC Class B Quasi-Peak	CISPR 22 Quasi-Peak	CISPR 22 Average
150kHz - 0.5MHz	48*	66-56**	56-46**
0.5MHz - 5MHz	48	56	46
5MHz - 30MHz	48	60	50
*FCC Class B limits starts from 450kHz			
**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	MODEL NUMBER	FCC ID / DoC	CONNECTED TO
MONITOR (EUT)	IMAGEQUEST CO., LTD.	PD421	PJIP4200S001	P.C
P.C	H.P	HP Pavilion 700	DoC	N/A
KEY BOARD	H.P	5181	DoC	P.C
MOUSE	MICROSOFT	Intellimouse	DoC	P.C
PRINTER	H.P	C4569A	DoC	P.C

5.2 Cable Description

	Power Cord Shielded (Y/N)	I/O Cable Shielded (Y/N)	Length (M)
MONITOR(EUT)	N	Y	1.8(P), 1.5(D)
PC(HOST)	N	N/A	1.8(P)
KEY BOARD	N/A	Y	1.8(D)
MOUSE	N/A	Y	1.8(D)
RS-232	N/A	N	1.8(D)
PHONE JACK	N/A	N	1.8(D)
DVI	N/A	Y	1.8(D)
PC AUDIO	N/A	N	1.8 (D)
D-SUB	N/A	Y	1.8(D)
COMPONENT DTV	N/A	Y	1.8(D)
AUDIO DTV	N/A	Y	1.8(D)
COMPONENT DVD	N/A	Y	1.8(D)
AUDIO DVD	N/A	Y	1.8(D)
S-VIDEO	N/A	Y	1.5(D)
COMPOSITE VCR	N/A	Y	1.8(D)
AUDIO VCR	N/A	Y	1.8(D)
SCART	N/A	Y	1.5(D)
POWER	N	N	1.8(P)

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
MONITOR(EUT)	Y	BOTH END	Y	BOTH END
KEY BOARD	N	N/A	Y	P.C END
MOUSE	N	N/A	Y	P.C END
RS-232	N	N/A	Y	P.C END
PHONE JACK	N	N/A	N	N/A
DVI	Y	BOTH END	Y	BOTH END
PC AUDIO	N	N/A	Y	BOTH END
D-SUB	Y	BOTH END	Y	BOTH END
COMPONENT DTV	N	N/A	Y	BOTH END
AUDIO DTV	N	N/A	Y	BOTH END
COMPONENT DVD	N	N/A	Y	BOTH END
AUDIO DVD	N	N/A	Y	BOTH END
S-VIDEO	N	N/A	Y	BOTH END
COMPOSITE VCR	N	N/A	Y	BOTH END
AUDIO VCR	N	N/A	Y	BOTH END
SCART	N	N/A	Y	BOTH END
POWER	N	N/A	N	N/A

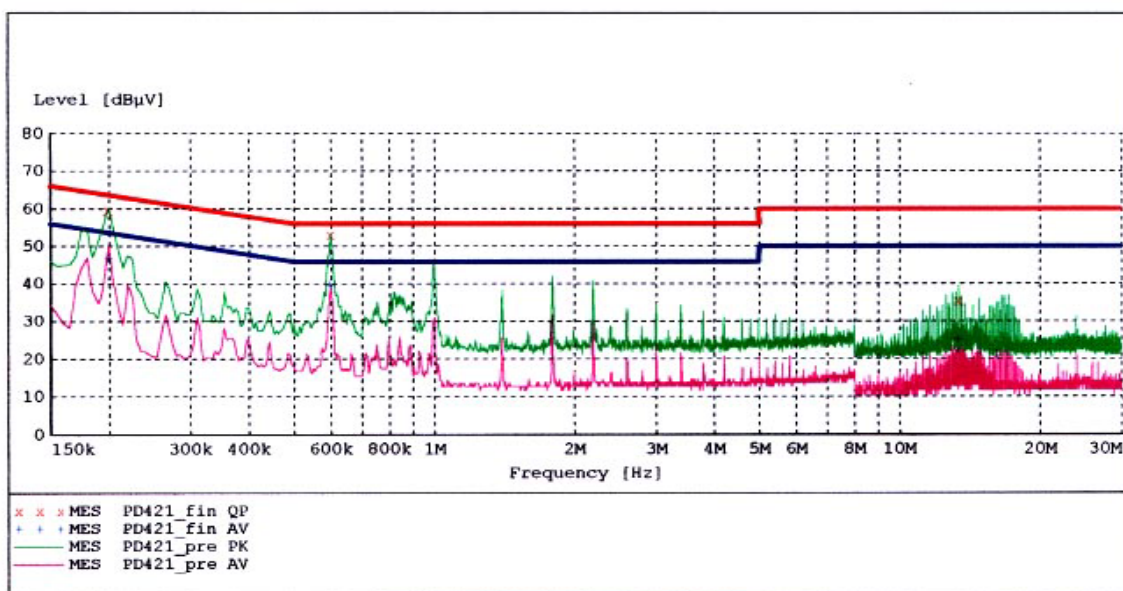
6.1 LINE-CONDUCTED TEST DATA

HYUNDAI C-TECH. EMC Testing Laboratory

EUT: PD421
 Manufacturer: ImageQuest Co., Ltd.
 Operating Condition: 1024 X 768 (DVI)
 Test Site: SHIELD ROOM
 Operator: BK, HAM
 Test Specification: CISPR 22 CLASS B
 Comment: N(110)
 Start of Test: 6/25/03 / 3:31:00PM

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	5.0 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			



MEASUREMENT RESULT: "PD421_fin QP"

6/25/03 3:33PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.200000	59.60	10.1	64	4.0	1	---
0.600000	52.90	10.2	56	3.1	1	---
13.400000	35.50	10.5	60	24.5	1	---

MEASUREMENT RESULT: "PD421_fin AV"

6/25/03 3:33PM

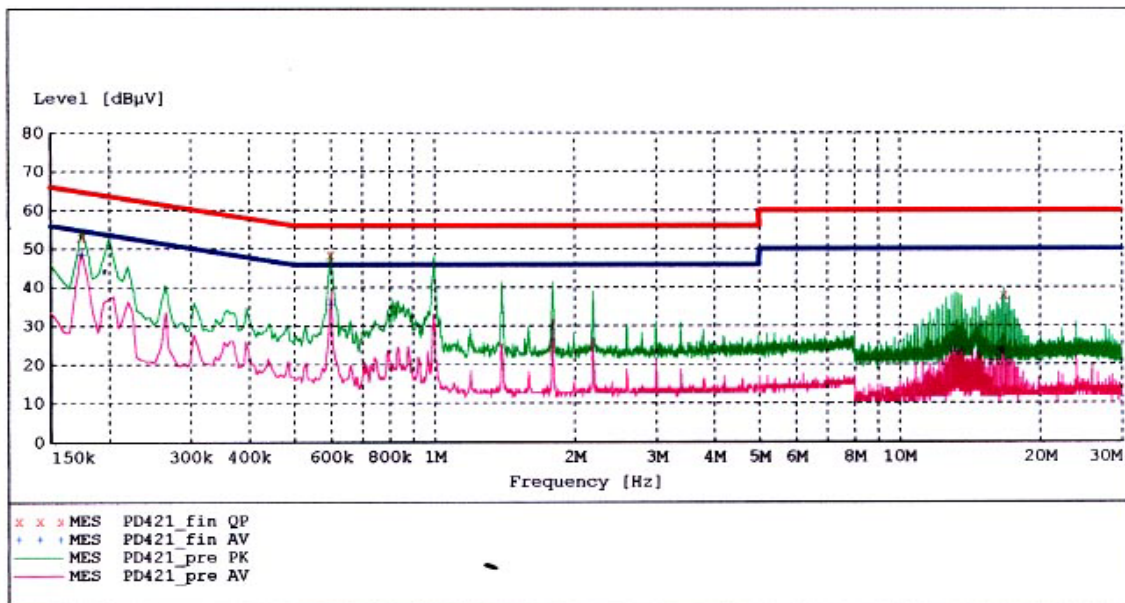
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.200000	46.80	10.1	54	6.8	1	---
0.600000	39.80	10.2	46	6.2	1	---
13.400000	25.30	10.5	50	24.7	1	---

HYUNDAI C-TECH.
EMC Testing Laboratory

EUT: PD421
Manufacturer: ImageQuest Co., Ltd.
Operating Condition: 1024 X 768 (DVI)
Test Site: SHIELD ROOM
Operator: BK, HAM
Test Specification: CISPR 22 CLASS B
Comment: H(110)
Start of Test: 6/25/03 / 3:27:43PM

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	Width				
150.0 kHz	500.0 kHz	5.0 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			



MEASUREMENT RESULT: "PD421_fin QP"

6/25/03 3:30PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175000	53.10	10.1	65	11.6	1	---
0.600000	48.50	10.2	56	7.5	1	---
16.800000	38.00	10.5	60	22.0	1	---

MEASUREMENT RESULT: "PD421_fin AV"

6/25/03 3:30PM

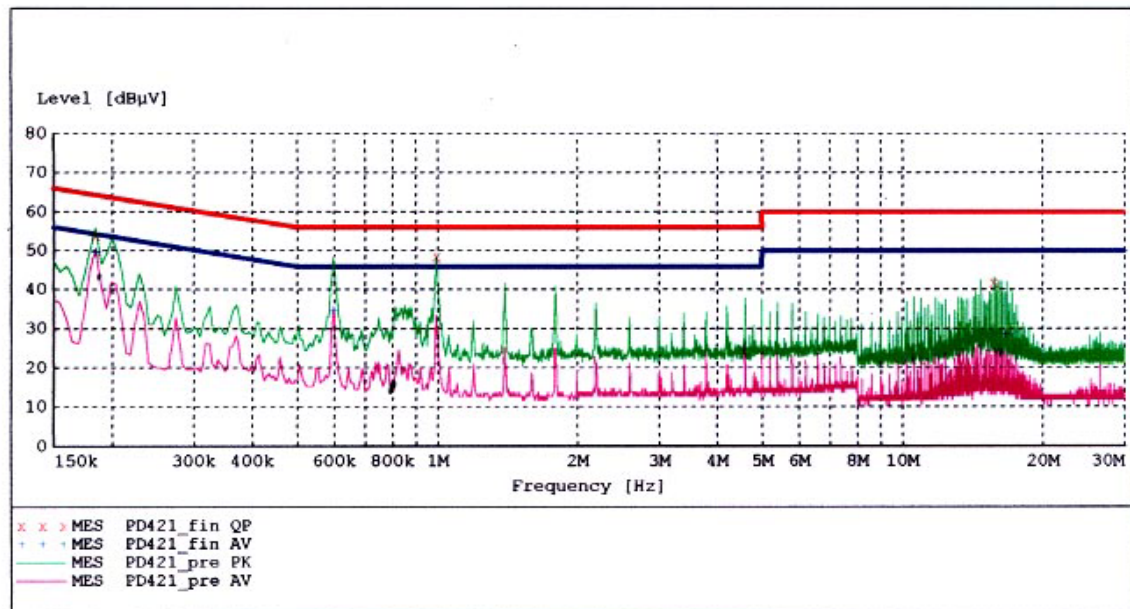
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.175000	48.60	10.1	55	6.1	1	---
0.600000	35.60	10.2	46	10.4	1	---
16.600000	23.90	10.5	50	26.1	1	---

HYUNDAI C-TECH.
EMC Testing Laboratory

EUT: PD421
 Manufacturer: ImageQuest Co., Ltd
 Operating Condition: 1024 X 768 85Hz
 Test Site: SHIELD ROOM
 Operator: BK, HAM
 Test Specification: CISPR 22 CLASS B
 Comment: H(110)
 Start of Test: 6/25/03 / 6:59:51PM

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage			
Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	500.0 kHz	5.0 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			


MEASUREMENT RESULT: "PD421_fin QP"

6/25/03 7:02PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.185000	53.80	10.1	64	10.5	1	---
1.000000	48.50	10.1	56	7.5	1	---
15.800000	41.80	10.5	60	18.2	1	---

MEASUREMENT RESULT: "PD421_fin AV"

6/25/03 7:02PM

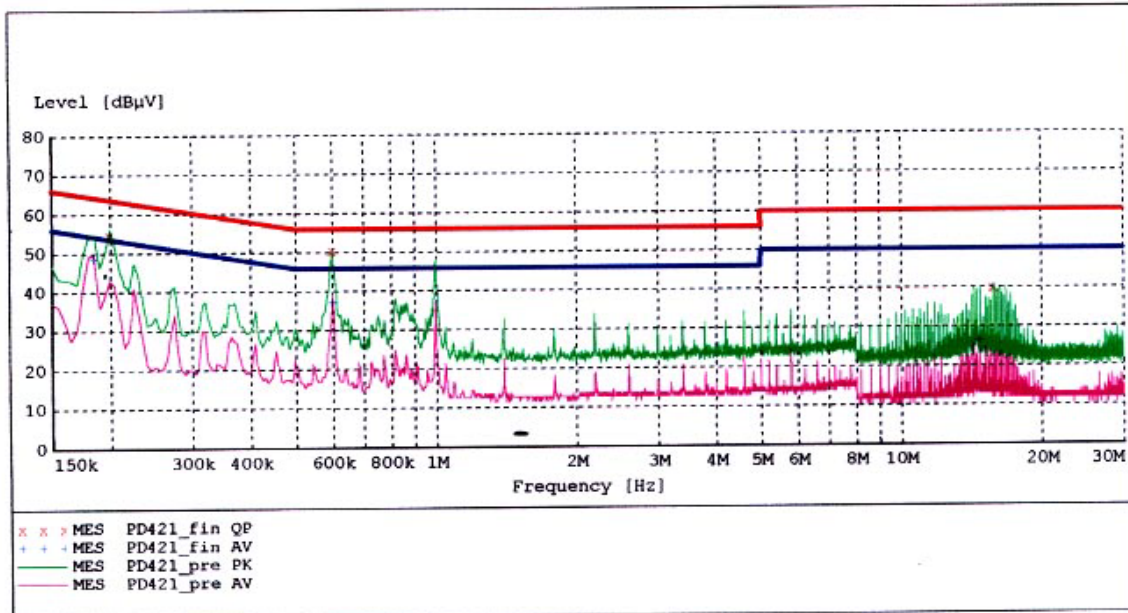
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.185000	49.70	10.1	54	4.5	1	---
0.600000	34.90	10.2	46	11.1	1	---
16.800000	28.70	10.5	50	21.3	1	---

HYUNDAI C-TECH.
EMC Testing Laboratory

EUT: PD421
Manufacturer: ImageQuest Co., Ltd
Operating Condition: 1024 X 768 85Hz
Test Site: SHIELD ROOM
Operator: BK, HAM
Test Specification: CISPR 22 CLASS B
Comment: N(110)
Start of Test: 6/25/03 / 7:19:27PM

SCAN TABLE: "CISPR 22 Voltage"

Short Description:			CISPR 22 Voltage				Transducer
Start	Stop	Step	Detector	Meas. Time	IF Bandw.		
Frequency 150.0 kHz	Frequency 500.0 kHz	Width 5.0 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				



MEASUREMENT RESULT: "PD421_fin QP"

6/25/03 7:21PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.200000	54.60	10.1	64	9.0	1	---
0.600000	50.50	10.2	56	5.5	1	---
15.800000	40.00	10.5	60	20.0	1	---

MEASUREMENT RESULT: "PD421_fin AV"

6/25/03 7:21PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Line	PE
0.185000	48.70	10.1	54	5.5	1	---
0.600000	37.20	10.2	46	8.8	1	---
14.800000	26.40	10.5	50	23.6	1	---

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 6).**
- 3. Line A = Phase Line B = Neutral**

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

7.1 RADIATED TEST DATA

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
51.6	14.14	10.76	1.5	V	26.4	30	-3.6
75.1	17.60	6.60	1.9	V	26.1	30	-3.9
168.2	7.32	15.62	3.0	V	25.9	30	-4.1
187.9	7.22	16.01	3.1	V	26.3	30	-3.7
197.3	5.61	16.20	3.2	H	25.0	30	-5.0
206.4	4.63	16.44	3.2	H	24.3	30	-5.7
328.3	10.32	16.36	4.2	H	30.8	37	-6.2
459.2	6.98	18.54	4.9	V	30.4	37	-6.6
483.5	7.48	18.88	5.0	V	31.4	37	-5.6

Radiated Measurements at 10-meters.

D-SUB 1024 X 768 (@68.68KHz/ 85Hz)

Frequency MHz	Reading dBuV	Ant. Factor dB	Cable Loss dB	ANT POL (H/V)	Total dBuV/m	Limit dBuV/m	Margin dB
75.1	18.40	6.60	1.9	V	26.9	30	-3.1
120.0	9.19	12.78	2.4	V	24.4	30	-5.6
166.5	7.77	15.58	2.9	V	26.3	30	-3.7
260.0	8.94	17.68	3.7	H	30.3	37	-6.7
520.4	6.21	19.56	5.2	V	31.0	37	-6.0

Radiated Measurements at 10-meters.

DVI 1024 X 768 (@48.36KHz/ 60Hz)

NOTES:

- The monitor(EUT) has video interface ports
(DVI, D-SUB, COMPONENT FOR DTV, COMPONENT FOR DVD, S-VIDEO, COMPOSITE, SCART)
to support two kinds of graphics adapters.
So the test were performed with each video interface port.

** AFCL = Antenna Factor (Roberts dipole) and Cable Loss .

*** 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

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

$$\text{dB } \mu\text{V} = \text{dBm} + 107$$

8.2 Example 1:

@ 20.3 MHz

Class B limit	= 250 μV = 47.96 dB μV
Reading	= - 67.8 dBm (calibrated level)
Convert to dB μV	= - 67.8 + 107 = 39.2 dB μV
$10^{(39.2/20)}$	= 91.2 μV

Margin	= 39.2 - 47.96 = - 8.76
	= 8.8 dB below limit

8.3 Example 2:

@ 66.7 MHz

Class B limit	= 100 $\mu\text{V/m}$ = 47.96 dB $\mu\text{V/m}$
Reading	= - 76.0 dBm (calibrated level)
Convert to dB $\mu\text{V/m}$	= - 76.0 + 107 = 31.0 dB $\mu\text{V/m}$
Antenna Factor + Cable Loss	= 5.8 dB
Total	= 36.8 dB $\mu\text{V/m}$

Margin	= 36.8 - 40.0 = - 3.2
	= 3.2 dB below limit

9.1 Test Equipment

<u>Type</u>	<u>Manufacture</u>	<u>Model Number</u>	<u>CAL Date</u>
EMI Test Receiver	Rohde & Schwarz	ESH3	2002.07.16
EMI Test Receiver	Rohde & Schwarz	ESVP	2002.10.01
EMI Test Receiver	Rohde & Schwarz	ESI40	2002.11.16
EMI Test Receiver	Rohde & Schwarz	ESVS30	2002.07.16
LISN	EMCO	3816/2	2002.11.29
LISN	EMCO	3816/2	2002.08.22
Amplifier	Hewlett-Packard	8447E	2002.08.23
Absorbing Clamp	Rohde & Schwarz	MDS-21	2003.04.24
Dipole Antennas	Rohde & Schwarz	VHAP	2002.07.16
Dipole Antennas	Rohde & Schwarz	UHAP	2002.07.16
Biconical Antenna	Rohde & Schwarz	VHA9103	2002.07.12
Log-Periodic Antenna	Rohde & Schwarz	UHALP9107	2002.07.12
Antenna Position Tower	EMCO	1051-12	N/A
Turn Table	EMCO	1060-06	N/A
Power Analyzer	Voltech	PM 3300	2003.2.15
Reference Network	ImpedanceVoltech	IEC 555	N/A
AC Power Source	PACIFIC	Magnetic Module	N/A
AC Power Source	PACIFIC	360AMX	2002.11.25
Controller	HD GmbH	HD 100	N/A
EMI in Motion	HD GmbH	KMS 560	N/A

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 (640X350, 640X480, 720X400, 800X600, 832X624, 1024X768) were investigated and tested

11.1 Conclusion

The data collected shows that the IMAGEQUEST CO., LTD. 42-inch PDP Monitor **FCC ID: PJIP4200S001**, complies with §15.107 and §15.109 of the FCC Rules.