



EMI TEST REPORT

Test Report No. : 10005250S-A

Applicant: JAI Corporation
Type of Equipment: CCD Camera
Model No.: SP-20000M-MCL
Test regulation: FCC Part 15 Subpart B:2012 Class B
ICES-003 Issue 5:2012 Class B

Test result: **Complied**

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2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above regulation.
4. The test results in this test report are traceable to the national or international standards.
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6. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.

Date of test:

February 25, 2013

**Representative
test engineer:**

Yasumasa Owaki
Engineer of WiSE Japan, UL
Verification Service

Approved by:

Ichiro Isozaki
Leader of WiSE Japan, UL Verification
Service



- The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
 There is no testing item of "Non-accreditation".

**UL Japan, Inc.
Shonan EMC Lab.**

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Section 1 : Customer information

Company Name : JAI Corporation
Brand Name : JAI
Address : 10-35 Sakae-chou Kanagawa-ku, Yokohama, Kanagawa, 221-0052, Japan
Telephone Number : +81-45-440-0165
Facsimile Number : +81-45-440-0167
Contact Person : Hiroshi Uehara

Section 2 : Equipment under test (E.U.T.)

2.1 Identification of E.U.T.

Type of equipment : CCD Camera
Trade name : JAI
Model No. : SP-20000M-MCL
Serial No. : β 2 000001
Rating : DC12V
Country of Mass-production : Japan
Condition of EUT : Production prototype
(Not for Sale: This sample is equivalent to mass-produced items.)
Size : 62x48x62 (Width x Length x Height (mm)), \leq 315g
Modification of EUT : No modification by the test lab.
Receipt Date of Sample : February 25, 2013

2.2 Product description

Model: SP-20000M-MCL (referred to as the EUT in this report) is a CCD Camera.
The clock frequencies used in the EUT: 240MHz

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Section 3 : Test specification, procedures and results

3.1 Test Specification

- Test Specification : FCC Part 15 Subpart B: 2012, final revised on December 27, 2012 and effective January 28, 2013
- Title : FCC 47CFR Part15 Radio Frequency Device
Subpart B Unintentional Radiators
- Test Specification : ICES-003 Issue 5:2012
- Title : Spectrum Management and Telecommunications
Interference-Causing Equipment Standard
Information Technology Equipment (ITE) – Limits and methods of measurement

3.2 Procedures & results

Item	Test Procedure	Limits	Deviation	Worst margin	Result
Conducted emission	ANSI C63.4:2009 7. AC powerline conducted emission measurements	Class B	N/A *1)	21.0dB (12.07654MHz, AV, N)	Complied
Radiated emission	ANSI C63.4:2009 8. Radiated emission measurements	Class B	N/A *2)	6.4dB (239.999MHz, QP, Horizontal)	Complied

*1) The calibration of test receiver contains CISPR 16-1-1 requirements.

*2) Measurements were limited up to 2 GHz since the highest frequency of internal source of the EUT is between 108 MHz and 500 MHz.

Note: UL Japan's EMI Work Procedures 13-EM-W0420.

3.3 Addition to standard

No addition, exclusion nor deviation has been made from the standard.

3.4 Confirmation

UL Japan, Inc. hereby confirms that E.U.T., in the configuration tested, complies with the specifications FCC Part15 Subpart B: 2012 Class B and ICES-003 Issue 5:2012 Class B.

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3.5 Uncertainty

The following uncertainties have been calculated to provide a confidence level of 95% using a coverage factor k=2.

Item	Frequency range	No.1 SAC ^{*1} /SR ^{*2} (±)	No.2 SAC/SR (±)	No.3 SAC/SR (±)
Conducted emission (AC Mains) LISN	150kHz-30MHz	3.6 dB	3.6 dB	3.5 dB
Radiated emission (Measurement distance: 3m)	30MHz-300MHz	4.9 dB	5.1 dB	4.9 dB
	300MHz-1GHz	5.0 dB	5.2 dB	4.9 dB
	1GHz-18GHz	4.8 dB	4.8 dB	4.9 dB

*1: SAC=Semi-Anechoic Chamber
*2: SR= Shielded Room is applied besides radiated emission
*3: Value of Antenna Terminal Voltage measurement is also applies to the No.5 and No.6 Shielded Room.

Conducted emission test

The data listed in this test report has enough margin, more than the site margin.

Radiated emission test

The data listed in this test report has enough margin, more than the site margin.

3.6 Test Location

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JAB Accreditation No. : RTL02610

	FCC Registration No.	IC Registration No.	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
<input type="checkbox"/> No.1 Semi-anechoic chamber	697847	2973D-1	20.6 x 11.3 x 7.65	20.6 x 11.3	10m
<input checked="" type="checkbox"/> No.2 Semi-anechoic chamber	697847	2973D-2	20.6 x 11.3 x 7.65	20.6 x 11.3	10m
<input type="checkbox"/> No.3 Semi-anechoic chamber	697847	2973D-3	12.7 x 7.7 x 5.35	12.7 x 7.7	5m
<input type="checkbox"/> No.4 Semi-anechoic chamber	-	-	8.1 x 5.1 x 3.55	8.1 x 5.1	-
<input type="checkbox"/> No.1 shielded room	-	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
<input checked="" type="checkbox"/> No.2 shielded room	-	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
<input type="checkbox"/> No.3 shielded room	-	-	6.3 x 4.7 x 2.7	6.3 x 4.7	-
<input type="checkbox"/> No.4 shielded room	-	-	4.4 x 4.7 x 2.7	4.4 x 4.7	-
<input type="checkbox"/> No.5 shielded room	-	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
<input type="checkbox"/> No.6 shielded room	-	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-

3.7 Test setup, Data of EMI & Test instruments

Refer to Appendix 1 to 3.

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Section 4 : Operation of E.U.T. during testing

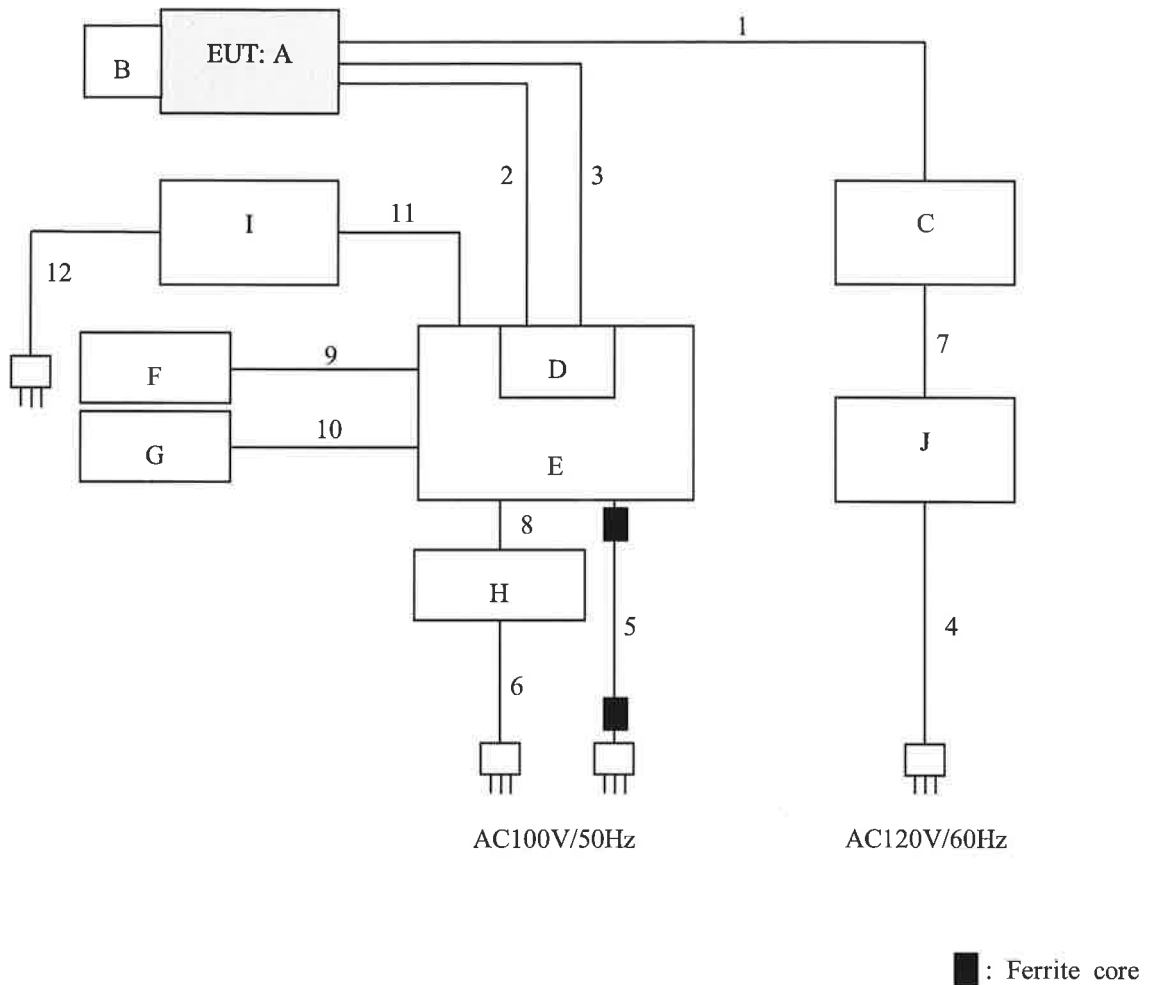
4.1 Operating modes

The EUT exercise program used during testing was designed to exercise the various system components in a manner similar to typical use.

Test sequence is used: Continuous mode

Justification: The system was configured in typical fashion (as a customer would normally use it) for testing.

4.2 Configuration and peripherals



*Cabling and setup were taken into consideration and test data was taken under worse case conditions.

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Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	FCC ID	Remark
A	CCD Camera	SP-20000M-MCL	β 2 000001	JAI Corporation	-	EUT
B	Lens	AF NIKKOR 35-F1.2	-	NIKON	-	-
C	Conversion Box	None	0001	JAI Corporation	-	-
D	Camera Link I/F	Xcelera-CL PX8	-	Teledyne DALSA	-	-
E	Personal Computer	T3500	5M836BX	DELL	-	-
F	Keyboard	SK-8175	OW213F	DELL	-	-
G	Mouse	MX500	LZB33351434	DELL	-	-
H	LCD Monitor	S2243W	36965080	NANAO	-	-
I	Printer	BJ F600	ESF50801	Canon	-	-
J	DC Power Supply	PAN35-10A	ML002085	KIKUSUI	-	-

List of cables used

No.	Name	Length (m)	Cable Shield	Connector Shield	Remark
1	DC Power	10.0	Shielded	Shielded	For CCD Camera
2	Camera Link	7.0	Shielded	Shielded	-
3	Camera Link	7.0	Shielded	Shielded	-
4	AC Power	1.5	Unshielded	Unshielded	For DC Power Supply
5	AC Power	2.0	Unshielded	Unshielded	For Personal Computer
6	AC Power	2.0	Unshielded	Unshielded	For LCD Monitor
7	DC Power	0.3	Unshielded	Unshielded	For Conversion Box
8	LCD DVI	1.5	Shielded	Shielded	-
9	Keyboard	1.4	Shielded	Shielded	-
10	Mouse	1.4	Shielded	Shielded	-
11	Printer	1.8	Shielded	Shielded	-
12	AC Power	2.0	Unshielded	Unshielded	For Printer

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Section 5 : Conducted emission

5.1 Operating environment

The test was carried out in shielded room.

Temperature : Refer to data

Humidity : Refer to data

5.2 Test configuration

The EUT was placed on a platform of nominal size, 1.0m by 2.6m, raised 0.8m above the conducting ground plane. The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals was aligned and was flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. The EUT was located 0.8m from Line Impedance Stabilization Network (LISN) and excess AC Cable was bundled in center. I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 0.3m to 0.4m long. Each EUT current-carrying power lead, except the ground (safety) lead, was individually connected through an LISN to the input power source. All unused 50ohm connectors of the LISN were resistively terminated in 50ohm when not connected to the measuring equipment.

5.3 Test conditions

Frequency range : 0.15 - 30 MHz

EUT position : Table top

5.4 Test procedure

The AC Mains Terminal Continuous disturbance Voltage had been measured with the EUT in shielded room.

The EUT was connected to a Line Impedance Stabilization Network (LISN).

An overview sweep with peak detection has been performed.

The measurements had been performed with a quasi-peak detector and if required, with a CISPR average detector (CAV).

The conducted disturbance measurements were made with the following detector function of the test receiver.

Detector Type : QP / CAV

IF Bandwidth : 9kHz / 9kHz

5.5 Results

Summary of the test results: Pass

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Section 6 : Radiated emission

6.1 Operating environment

This test was carried out in semi-anechoic chamber.

Temperature : Refer to data
Humidity : Refer to data

6.2 Test configuration

The EUT was placed on a platform of nominal size, 1.0m by 1.5m, raised 80cm above the conducting ground plane. The table is made of Styrofoam and covered with polyvinyl chloride. That has very low permittivity. The rear of EUT, including its peripherals was aligned and flushed with rear of tabletop. Test was made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Photographs of the set up are shown in Appendix 1.

6.3 Test conditions

Frequency range : 30 - 2000 MHz
Test distance : 3m
EUT position : Table top

6.4 Test procedure

The Radiated Electric Field Strength intensity has been measured on a Semi-Anechoic Chamber with a ground plane at a distance of 3m.

The measuring antenna height was varied between 1 and 4m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.

The measurements were performed for vertical or horizontal antenna polarization or both as necessary.

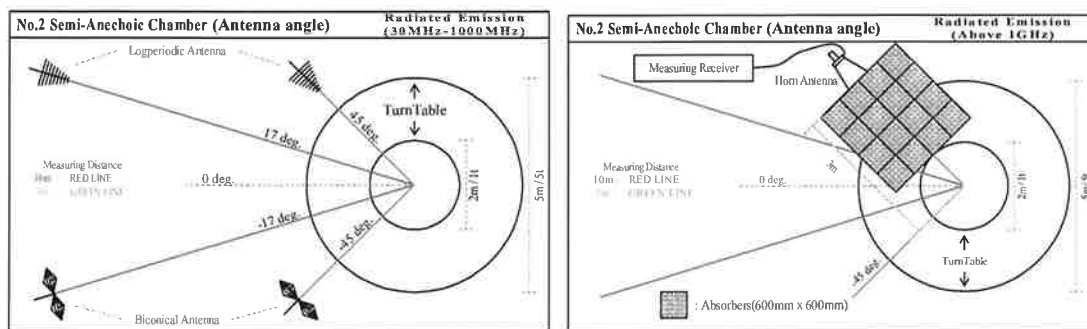
The radiated emission measurements were made with the following detector function of the test receiver and spectrum analyzer.

	30-1000 MHz (Test receiver)	1000-2000 MHz (Spectrum analyzer)
Detector Type:	: QP	AV *1) PK
IF Band width:	: 120 kHz	RBW 1MHz/ VBW 10 Hz RBW 1MHz/ VBW 3 MHz

*1) When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

6.5 Results

Summary of the test results: Pass



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Appendix 1: Photographs of test setup

Conducted emission

Front

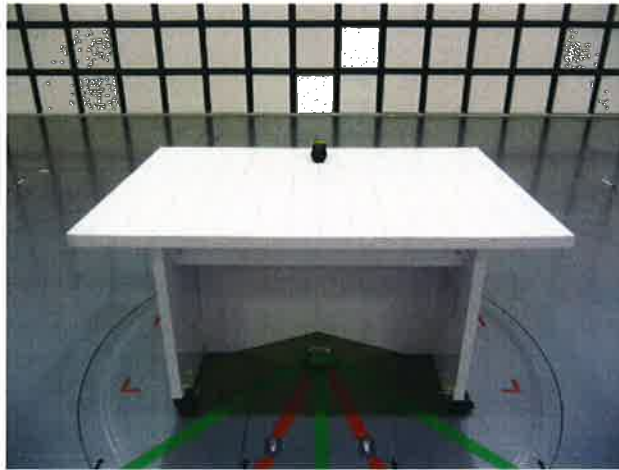


Side



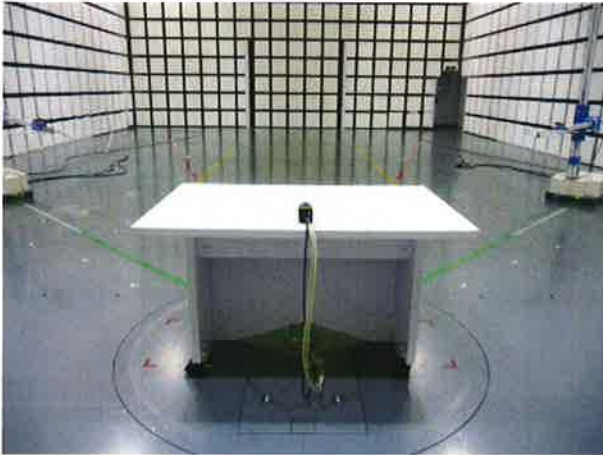
Radiated emission

Front



Rear

Below 1GHz



Above 1GHz



AE



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DATA OF CONDUCTED EMISSION TEST

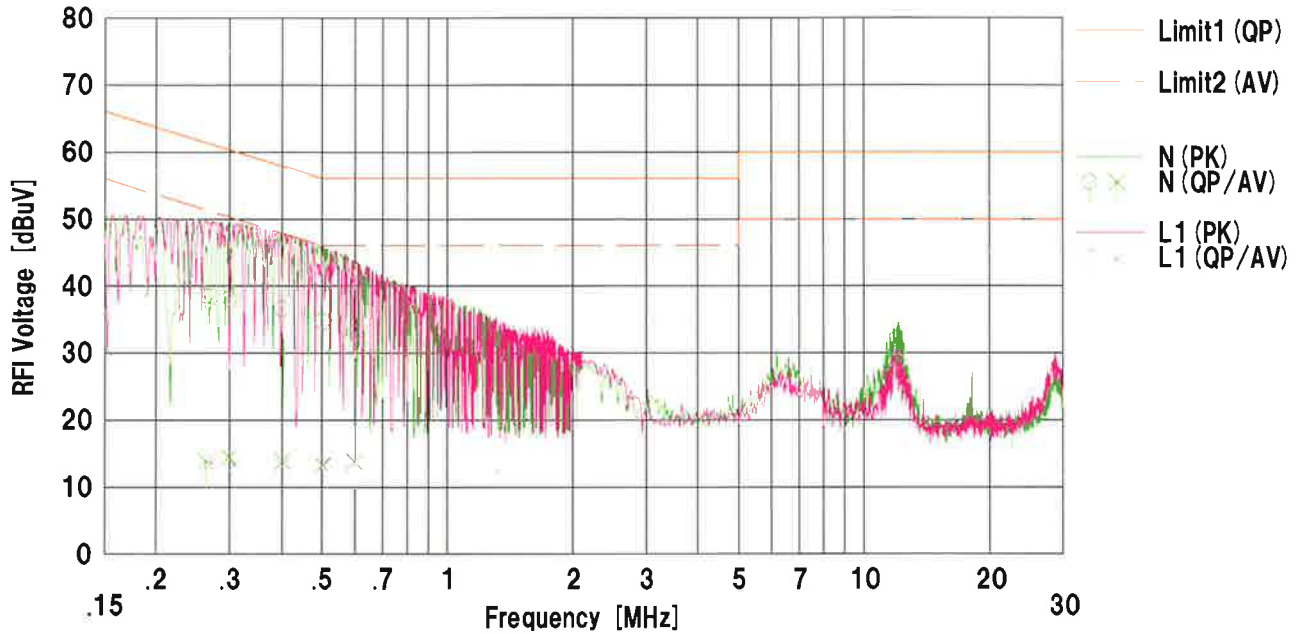
UL Japan, Inc. Shonan EMC Lab. No.2 Shielded Room
Date : 2013/02/25

Company : JAI Corporation
Kind of EUT : CCD Camera
Model No. : SP-20000M-MCL
Serial No. : β 2 000001
Remarks : -

Mode : Continuous
Report No. : 10005250S-A
Power : DC12V
Temp./Humi. : 23deg.C / 22%RH

Limit1 : FCC 15B (15.107) ClassB QP
Limit2 : FCC 15B (15.107) ClassB AV

Engineer : Shinichi Takano



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.26381	25.9	1.2	12.6	38.5	13.8	61.3	51.3	22.8	37.5	N	
2	0.30056	25.5	1.8	12.6	38.1	14.4	60.2	50.2	22.1	35.8	N	
3	0.40219	24.0	1.3	12.6	36.6	13.9	57.8	47.8	21.2	33.9	N	
4	0.50230	22.2	0.7	12.6	34.8	13.3	56.0	46.0	21.2	32.7	N	
5	0.60053	20.5	1.3	12.6	33.1	13.9	56.0	46.0	22.9	32.1	N	
6	12.07654	18.8	15.7	13.3	32.1	29.0	60.0	50.0	27.9	21.0	N	
7	0.27175	25.7	1.1	12.6	38.3	13.2	61.0	51.0	22.7	37.3	L1	
8	0.30842	25.4	0.8	12.6	38.0	13.4	60.0	50.0	22.0	36.6	L1	
9	0.40254	23.9	0.5	12.6	36.5	13.1	57.8	47.8	21.3	34.7	L1	
10	0.51563	21.9	1.2	12.6	34.5	13.3	56.0	46.0	21.5	32.2	L1	
11	0.60137	20.5	1.0	12.6	33.1	13.3	56.0	46.0	22.9	32.4	L1	
12	12.07540	15.4	12.2	13.3	28.7	25.2	60.0	50.0	31.3	24.5	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN:SLS-03

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber
Date : 2013/02/25

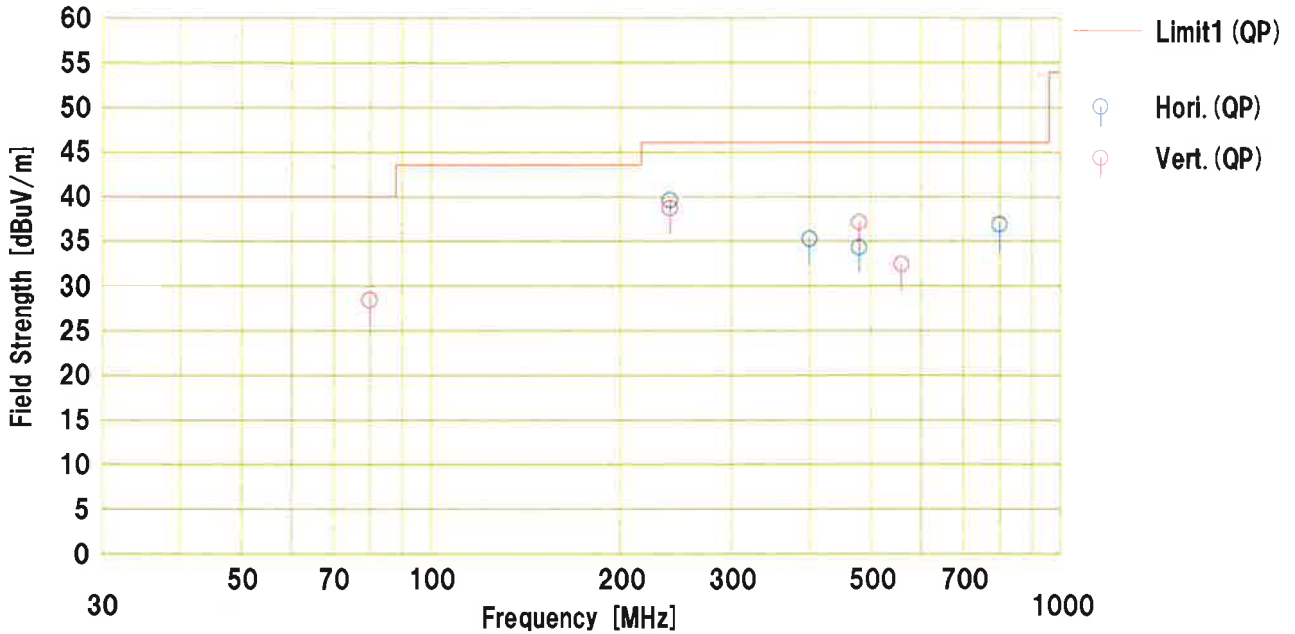
Company : JAI Corporation
Kind of EUT : CCD Camera
Model No. : SP-20000M-MCL
Serial No. : β 2 000001

Mode : Continuous
Report No. : 10005250S-A
Power : DC12V
Temp./Humi. : 19deg.C / 29%RH

Remarks : -

Limit1 : FCC 15B Class B (3m)

Engineer : Yasumasa Owaki



No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<QP> [dBuV]					<QP> [dBuV/m]	<QP> [dB]						
1	239.999	43.8	17.5	10.0	31.7	0.0	39.8	48.0	8.4	Hori.	200	248	BC	
2	400.002	42.8	16.6	7.8	31.7	0.0	35.3	48.0	10.7	Hori.	114	101	LP	
3	479.998	40.3	17.5	8.1	31.6	0.0	34.3	46.0	11.7	Hori.	100	119	LP	
4	800.000	37.3	21.3	9.8	31.3	0.0	36.9	46.0	9.1	Hori.	128	164	LP	
5	79.999	45.4	6.8	7.7	31.9	0.4	28.4	40.0	11.6	Vert.	133	2	BC	
6	239.999	42.9	17.5	10.0	31.7	0.0	38.7	46.0	7.3	Vert.	100	3	BC	
7	479.996	43.1	17.5	8.1	31.6	0.0	37.1	46.0	8.9	Vert.	149	70	LP	
8	580.000	37.0	18.5	8.6	31.7	0.0	32.4	46.0	13.6	Vert.	100	91	LP	

Calculation: Result [dBuV/m] = Reading [dBuV] + Ant.Fac [dB/m] + Loss (Cable+ATT) [dB] - Gain (AMP) [dB] + S.Fac (ΔAF) [dB]
Ant.Type=BC:Biconical Antenna LP:Logperiodic Antenna SHA**: Horn

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.2 Semi-Anechoic Chamber
Date : 2013/02/25

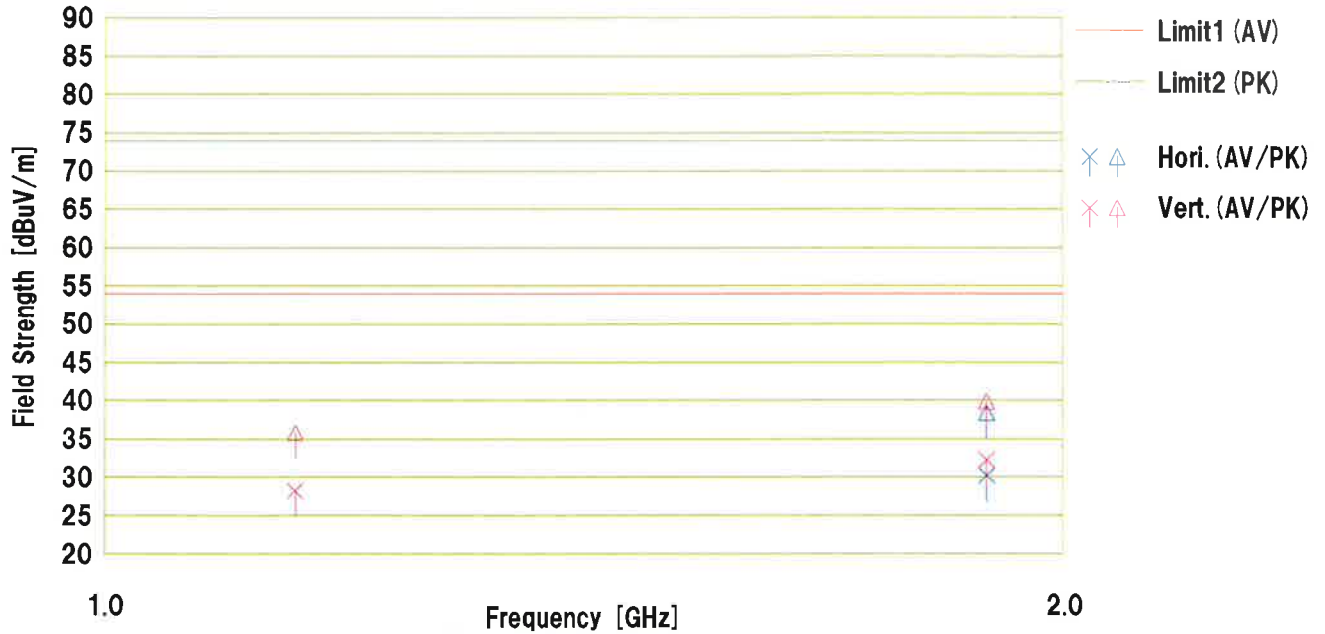
Company : JAI Corporation
Kind of EUT : CCD Camera
Model No. : SP-20000M-MCL
Serial No. : B 2 000001

Mode : Continuous
Report No. : 10005250S-A
Power : DC12V
Temp./Humi. : 19deg.C / 29%RH

Remarks : -

Limit1 : FCC 15B Class B (3m) AV
Limit2 : FCC 15B Class B (3m) Peak

Engineer : Shinichi Takano



No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV> [dBuV]	<PK> [dBuV]				<AV> [dBuV/m]	<PK> [dBuV/m]	<AV> [dBuV/m]	<PK> [dBuV/m]	<AV> [dB]	<PK> [dB]					
1	1920.045	38.8	47.0	26.2	3.7	38.5	30.2	38.4	53.9	73.9	23.7	35.5	Hori.	100	80	SHA02	
2	1200.082	39.4	47.0	24.6	2.9	38.7	28.2	35.8	53.9	73.9	25.7	38.1	Vert.	147	49	SHA02	
3	1919.966	40.8	48.4	26.2	3.7	38.5	32.2	39.8	53.9	73.9	21.7	34.1	Vert.	148	44	SHA02	

Calculation: Result [dBuV/m] = Reading [dBuV] + Ant.Fac [dB/m] + Loss (Cable) [dB] - Gain (AMP) [dB]
Ant.Type=BC:Biconical Antenna, LP:Logperiodic Antenna, SHA**:Horn Antenna

APPENDIX 3
Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-02	Pre Amplifier	SONOMA	310N	290212	RE	2013/02/12 * 12
SAT6-02	Attenuator	JFW	50HF-006N	-	RE	2013/02/12 * 12
KAT3-11	Attenuator	JFW IND. INC.	50HF-003N	-	RE	2012/08/07 * 12
SBA-02	Biconical Antenna	Schwarzbeck	BBA9106	91032665	RE	2012/11/18 * 12
SCC-B1/B3/B5/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	2012/04/10 * 12
SCC-B2/B4/B6/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	2012/04/10 * 12
SLA-02	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0893	RE	2012/11/18 * 12
STR-02	Test Receiver	Rohde & Schwarz	ESCI	100575	RE/CE	2012/09/03 * 12
SJM-02	Measure	KOMELON	KMC-36	-	RE/CE	-
SAEC-02(NSA)	Semi-Anechoic Chamber	TDK	SAEC-02(NSA)	2	RE	2012/09/21 * 12
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE,RFI,MF)	-	RE/CE	-
SAF-05	Pre Amplifier	TOYO Corporation	TPA0118-36	1440490	RE	2012/03/12 * 12
SCC-G02	Coaxial Cable	Suhner	SUCOFLEX 104A	46498/4A	RE	2012/04/10 * 12
SCC-G22	Coaxial Cable	Suhner	SUCOFLEX 104	296199/4	RE	2012/05/22 * 12
SHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-726	RE	2012/08/17 * 12
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	RE	2012/02/16 * 12
SCC-B12/B13/SRSE-02	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-270(RF Selector)	CE	2012/04/10 * 12
SLS-03	LISN	Rohde & Schwarz	ENV216	100513	CE(EUT)	2013/02/22 * 12
SLS-04	LISN	Rohde & Schwarz	ENV216	100514	CE(AE)	2013/02/25 * 12
SAT3-06	Attenuator	JFW	50HF-003N	-	CE	2013/02/12 * 12
SOS-04	Humidity Indicator	A&D	AD-5681	4061512	CE/RE	2012/03/26 * 12
STM-03	Terminator	TME	CT-01 BP	-	CE	2013/01/16 * 12

The expiration date of the calibration is the end of the expired month .
As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

- CE: Conducted emission ,
- RE: Radiated emission

End of Report