FCC TEST REPORT

for

CISPR PUB. 22 Class B

Equipment : Color Monitor

Model No. : E74

Machine Type: 6332-92N

FCC ID : H4IE74

Filing Type : Original Grant

Applicant : Lite-On Technology Corp.

5F, 16, Sec. 4, Nanking E. Rd., Taipei,

Taiwan, R.O.C.

The test result refers exclusively to the test presented test model / sample.

- Without the written authorization of the test lab., the Test Report may not be copied.
- Certificate or Test Report must not be used by the applicant to claim the product in this test report endorsement by NVLAP or any agency of U.S. government.

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc. FCC ID : H4IE74

TEL: 886-2-2696-2468 FAX: 886-2-2696-2255 FCC ID : H4IE74
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Certificate No.: F961002

CERTIFICATE OF COMPLIANCE

for

CISPR PUB. 22 Class B

: Color Monitor Equipment

Model No. : E74

Machine Type: 6332-92N

FCC ID : H4IE74

Applicant : Lite-On Technology Corp.

5F, 16, Sec. 4, Nanking E. Rd., Taipei,

Taiwan, R.O.C.

I HEREBY CERTIFY THAT:

The measurements shown in this test report were made in accordance with the procedures given in ANSI C63.4 - 1992 and the energy emitted by this equipment was passed CISPR PUB. 22 both radiated and conducted emission class B limits. Testing was carried out on Jun. 10, 1999 at SPORTON International Inc. LAB. in Lin Kou.

W. L. Huang General Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

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1. General Description of Equipment under Test

1.1. Applicant

Lite-On Technology Corp. 5F, 16, Sec. 4, Nanking E. Rd., Taipei, Taiwan, R.O.C.

1.2. Manufacturer

Same as 1.1.

1.3. Basic Description of Equipment under Test

Equipment : Color Monitor

Model No. : E74

Machine Type : 6332-92N

FCC ID : H4IE74

Trade Name : IBM

VGA Cable : Double-Shielded, 1.8 m

Power Supply Type : Switching
Power Cord : Non-Shielded

1.4. Feature of Equipment under Test

Image: Maximum Height:9.5 inch (242 mm)

Maximum Width:12.7 inch (323 mm)

Dot Pitch: 0.27 mm

Power Input: Supply Voltage:100-240 Vac

50/60 Hz

Max Supply Current: 1.8A at 100 Vac

Video input: Input Signal: Analogue Direct Drive, 75 ohm 0-0.7v

H. Addressability:1280 pels (max.)

V. Addressability:1024 lines (max.)

Clock Rate:110 Mpels/sec

Synchronization Range: Horiz. Frequency: 30kHz – 69kHz

Vert. Frequency: 50Hz – 120Hz

Power Consumption (Typical): Normal Operation: <110W

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2. Test Configuration of Equipment under Test

2.1. Test Manner

- a. The EUT has been associated with personal computer and peripherals pursuant to ANSI C63.4-1992 and configuration operated in a manner which tended to maximize its emission characteristics in a typical application.
- b. The HP Printer, ACEEX Modem, IBM PS/2 Keyboard, IBM PS/2 Mouse and EUT were connected to the IBM PC for EMI test.
- c. The Following display resolution were investigated during the compliance test:
 - 1. Horizontal frequency (640x480 to 1280x1024, 31.5 KHz to 69 KHz)
 - 2. Vertical frequency (60 Hz to 85 Hz)
- d. According to the above tests, we listed the following display modes as the worst cases:
 - 1. 1280x1024, 64KHz, 60 Hz.
 - 2. 1024x768, 69KHz, 85 Hz.
- e. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 2,000 MHz.

2.2. Description of Test System

Support Unit 1. -- Printer (HP)

FCC ID : B94C2642X

Model No. : DeskJet 400

Power Supply Type : Linear

Power Cord : Non-Shielded Serial No. : SP0048

Data Cable : Braided-Shielded, 360 degree via metal backshells, 1.35m

Support Unit 2. -- Modem (ACEEX)

FCC ID : IFAXDM1414
Model No. : DM1414
Power Supply Type : Linear

Power Cord : Non-Shielded Serial No. : SP0016

Data Cable : Shielded, 360 degree via metal backshells, 1.15m

Support Unit 3. -- PS/2 Keyboard (IBM)

 FCC ID
 : N/A

 Model No.
 : KB-7953

 Serial No.
 : SP0023

Data Cable : Shielded, 360 degree via metal backshells, 1.9m

Remark : This support device was tested to compy with FCC standards and

authorized under a declaration of conformity.

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Support Unit 4. -- PS/2 Mouse (IBM)

FCC ID : DZL211120 Model No. : 12J3618 Serial No. : SP0028

Data Cable : Shielded, 360 degree via metal backshells, 1.8m

Support Unit 5. -- Personal Computer (IBM)

 FCC ID
 : N/A

 Model No.
 : 310

 Serial No.
 : SP0148

Data Cable : Shielded, 360 degree via metal backshells, 1.7m

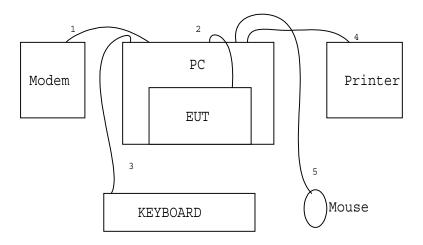
Remark : This support device was tested to compy with FCC standards and

authorized under a declaration of conformity.

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2.3. Connection Diagram of Test System



- 1. The I/O cable is connected to the support unit 2.
- 2. The I/O cable is connected to EUT.
- 3. The I/O cable is connected to the support unit 3.
- 4. The I/O cable is connected to the support unit 1.
- 5. The I/O cable is connected to the support unit 4.

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3. Test Software

An executive program, TESTPATS, which generates a complete line of continuously repeating "H" pattern was used as the test software.

The program was executed as follows:

- a. Turn on the power of all equipment.
- b. The PC reads the test program from the floppy disk drive and runs it.
- c. The PC sends "H" messages to the monitor, and the monitor displays "H" patterns on the screen.
- d. The PC sends "H" messages to the printer, then the printer prints them on the paper.
- e. The PC sends "H" messages to the modem.
- f. The PC sends "H" messages to the internal Hard Disk, and the Hard Disk reads and writes the message.
- g. Repeat the steps from b to f.

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4. General Information of Test

4.1. Test Facility

This test was carried out by SPORTON International Inc. in an openarea test site. Openarea Test Site Location: No. 30-2, Lin 6, Diing-Fwu Tsuen, Lin-Kou-Hsiang,

Taipei Hsien, Taiwan, R.O.C.

TEL: 886-2-2601-1640 FAX: 886-2-2601-1695

4.2. Standard for Methods of Measurement

ANSI C63.4-1992

4.3. Test in Compliance with

CISPR PUB. 22 Class B

4.4. Frequency Range Investigated

a. Conduction: from 150 kHz to 30 MHzb. Radiation: from 30 MHz to 2,000 MHz

4.5. Test Distance

FAX: 886-2-2696-2255

The test distance of radiated emission from antenna to EUT is 10 M.

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5. Test of Conducted Powerline

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 115 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-1992 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 5.3. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

5.1. Major Measuring Instruments

• Test Receiver (HP 8591EM)

Attenuation 0 dB

Start Frequency 0.15 MHz
Stop Frequency 30 MHz
Step MHz 0.007 MHz
IF Bandwidth 9 KHz

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5.2. Test Procedures

a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

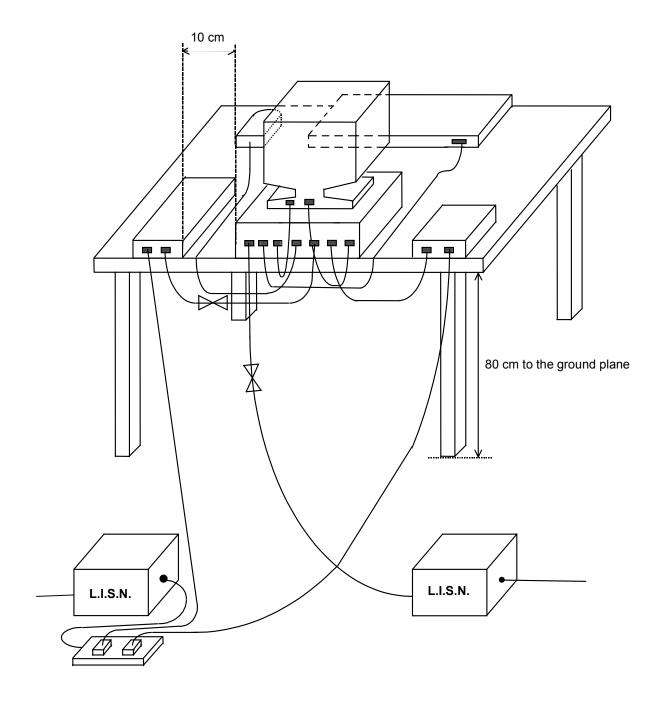
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connect to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- i. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be retested one by one using the quasi-peak method and reported.

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5.3. Typical Test Setup Layout of Conducted Powerline



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5.4. Test Result of AC Powerline Conducted Emission

5.4.1. Test mode: 1280*1024 60Hz/64K(Desktop PC)

 Temperature : 28°C • Relative Humidity: 53 % • Test Date : Jun. 10, 1999

The Conducted Emission test was passed at minimum margin

LINE 1.411 MHz / 43.10 dBuV.

Freq. Line		Meter	Reading			Lim	its		Margin
or	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.	Q.P. A.V.
(MHz) Neutral	(dBuV)	(dBuV)	(uV)	(uV)	(dBuV)	(dBuV)	(uV)	(uV)	(dB) (dB)
0.963 L	42.00	34.30	125.89	51.88	56.00	46.00	630.96	199.53	-14.00 -11.70
1.411 L	43.10	35.90	142.89	62.37	56.00	46.00	630.96	199.53	-12.90 -10.10
3.337 L	38.30	34.60	82.22	53.70	56.00	46.00	630.96	199.53	-17.70 -11.40
0.770 N	40.20	33.00	102.33	44.67	56.00	46.00	630.96	199.53	-15.80 -13.00
1.091 N	42.10	34.90	127.35	55.59	56.00	46.00	630.96	199.53	-13.90 -11.10
3.657 N	40.30	36.00	103.51	63.10	56.00	46.00	630.96	199.53	-15.70 -10.00

Test Engineer : _____ KENNY CHUANG

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5.4.2. Test mode: 1024*768 85Hz/69K(Desktop PC)

Temperature: 28°C Relative Humidity: 53 % • Test Date : Jun. 10, 1999

The Conducted Emission test was passed at minimum margin

LINE 1.371 MHz / 43.20 dBuV.

Freq. Line		Meter	Reading			Lim	its		Margin
or	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.	Q.P.	A.V.	Q.P. A.V.
(MHz) Neutra	(dBuV)	(dBuV)	(uV)	(uV)	(dBuV)	(dBuV)	(uV)	(uV)	(dB) (dB)
0.686 L	42.10	37.90	127.35	78.52	56.00	46.00	630.96	199.53	-13.90 -8.10
1.371 L	43.20	34.30	144.54	51.88	56.00	46.00	630.96	199.53	-12.80 -11.70
3.630 L	41.70	37.00	121.62	70.79	56.00	46.00	630.96	199.53	-14.30 -9.00
0.479 N	43.20	40.50	144.54	105.93	56.35	46.35	656.89	207.73	-13.15 -5.85
1.166 N	42.70	35.60	136.46	60.26	56.00	46.00	630.96	199.53	-13.30 -10.40
3.562 N	42.00	37.20	125.89	72.44	56.00	46.00	630.96	199.53	-14.00 -8.80

Test Engineer : _____ **KENNY CHUANG**

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5.5. Photographs of Counducted Powerline Test Configuration

• The photographs show the configuration that generates the maximum emission.



FRONT VIEW



REAR VIEW

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SIDE VIEW

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6. Test of Radiated Emission

Radiated emissions from 30 MHz to 2,000 MHz were measured with a bandwidth of 120 kHz according to the methods defines in ANSI C63.4-1992. The EUT was placed on a nonmetallic stand in the open-field site, 0.8 meter above the ground plane, as shown in section 6.3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

20 dB

6.1. Major Measuring Instruments

RF Gain

Amplifier (HP 87405A) Attenuation 0 dB

10 MHz to 3 GHz Signal Input

Spectrum Analyzer (HP 8594A) Attenuation 0 dB Start Frequency 30 MHz 2000 MHz Stop Frequency Resolution Bandwidth 1 MHz Video Bandwidth 1 MHz

9 KHz to 2.9 GHz Signal Input

Quasi-Peak Adapter (HP 8594A) Resolution Bandwidth 120 KHz

Frequency Band 30 MHz to 1 GHz

ON for Quasi-Peak Mode Quasi-Peak Detector

OFF for Peak Mode

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6.2. Test Procedures

a. The EUT was placed on a rotatable table top 0.8 meter above ground.

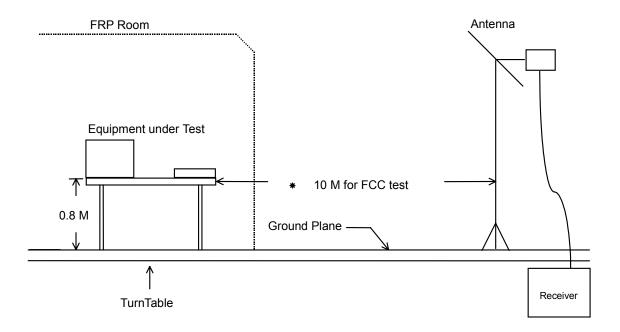
- b. The EUT was set 10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 6 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 6 dB margin will be repeated one by one using the quasi-peak method and reported.

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6.3. Typical Test Setup Layout of Radiated Emission



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6.4. Test Result of Radiated Emission

6.4.1. Test mode: 1280*1024 60Hz/64K(Desktop PC)

Test Distance: 10 M Temperature : 29°C Relative Humidity: 67 % • Test Date : Jun. 10, 1999

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Reading = Emission

The Radiated Emission test was passed at minimum margin

169.400 MHz / 23.07 dBuV (VERTICAL) Antenna Height 1 Meter, Turntable Degree 243 °.

Frequency	Dalawit.	Antenna	Cable	Reading	Limi	ts	Emission	Level	Margin
(MHz)	Polarity	Factor (dB/m)	Loss (dB)	(dBuV)	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)	(dB)
30.500	V	17.56	0.62	4.25	30.00	31.62	22.43	13.23	-7.57
143.200	V	11.23	1.30	10.07	30.00	31.62	22.60	13.49	-7.40
169.400	V	9.89	1.40	11.78	30.00	31.62	23.07	14.24	-6.93
216.000	V	10.18	1.64	11.16	30.00	31.62	22.98	14.09	-7.02
208.000	Н	9.52	1.53	11.32	30.00	31.62	22.37	13.14	-7.63
232.000	Н	11.50	1.58	16.15	37.00	70.79	29.23	28.94	-7.77

Test Engineer : _	
Terry Cl	nang

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6.4.2. Test mode: 1024*768 85Hz/69K(Desktop PC)

Test Distance: 10 M Temperature: 29°C Relative Humidity: 67 % • Test Date : Jun. 10, 1999

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Reading = Emission

The Radiated Emission test was passed at minimum margin

125.589 MHz / 23.65 dBuV (VERTICAL) Antenna Height 1 Meter, Turntable Degree 148 °.

Frequency	Dolority	Antenna Factor	Cable	Reading	Limi	ts	Emission	Level	Margin
(MHz)	Polarity	(dB/m)	Loss (dB)	(dBuV)	(dBuV/m)	(uV/m)	(dBuV/m)	(uV/m)	(dB)
31.442	V	17.56	0.62	4.93	30.00	31.62	23.11	14.31	-6.89
32.907	V	16.82	0.66	5.30	30.00	31.62	22.78	13.77	-7.22
52.230	V	7.43	0.74	13.90	30.00	31.62	22.07	12.69	-7.93
62.832	V	5.53	0.94	16.73	30.00	31.62	23.20	14.45	-6.80
125.589	V	12.18	1.26	10.21	30.00	31.62	23.65	15.22	-6.35
188.517	V	9.06	1.58	12.45	30.00	31.62	23.09	14.27	-6.91

Test Engineer:	
Terry C	hang

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6.5. Photographs of Radiated Emission Test Configuration

The photographs show the configuration that generates the maximum emission.



FRONT VIEW



REAR VIEW

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7. Antenna Factor & Cable Loss

Frequency (MHz)	Antenna Factor (dB)	Cable Loss (dB)
30	17.9	0.6
35	16.1	0.7
40	14.0	0.7
45	10.5	0.8
50	7.9	0.7
55	6.7	0.8
60	5.5	1.0
65	5.5	0.9
70	5.6	0.9
75	6.5	1.0
80	7.5	0.9
85	8.5	1.0
90	9.4	1.0
95	10.4	1.1
100	11.5	1.1
110	12.1	1.2
120	12.6	1.2
130	12.0	1.3
140	11.6	1.3
150	10.5	1.3
160	10.5	1.4
170	9.8	1.4
180	9.2	1.5
190	9.0	1.6
200	8.8	1.4
220	10.5	1.4 1.7
240	12.2	1.5
260	13.1	1.8
280	13.2	1.8
300	13.4	1.9
320	13.4	1.9
340	13.4	2.0
360	13.9	2.2
380	14.9	2.1
400	15.6	2.1
450	16.4	2.3
500	16.6	2.5
550	19.7	2.4
600	19.3	2.8
650	20.0	2.9
700	19.5	2.9
750	18.5	2.7
800	17.8	3.5
850	18.3	3.3
900	20.5	3.2
950	21.4	4.5
1000	21.2	3.5
2000	31.57	6.4
_000	31.01	5:

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8. List of Measuring Equipments Used

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration	Remark
					<u>Date</u>	
EMC Receiver (site 2)	HP	8591EM	3710A01187	9 KHz - 18 GHz	Sep. 18, 1998	Conduction
LISN (EUT) (site 2)	Telemeter	NNB-2/16Z	98009	50 ohm / 50 uH	Jan. 22, 1999	Conduction
LISN (Support Unit) (site 2)	EMCO	3810/2NM	9703-1839	50 ohm / 50 uH	Jul. 06, 1998	Conduction
Amplifier (Site 5)	HP	87405A	3207A01437	10MHz –3.0GHz	June 26, 1998	Radiation
Spectrum Analyzer (Site 5)	HP	8594A	3051A00172	9KHz –2.9GHz	Apr. 17, 1998	Radiation
Bilog Antenna (Site 5)	CHASE	CBL6112A	2287	30MHz -2GHz	Jan. 07, 1999	Radiation
Half-wave dipole antenna (Site 5)	EMCO	3121C	9705-1285	28 M - 1GHz	May 18, 1999	Radiation
Turn Table (site 5)	rn Table (site 5) EMCO 2		9711-2021	0 ~ 360 degree	N/A	Radiation
Antenna Mast (site 5)	EMCO	2075	9711-2115	1 m- 4 m	N/A	Radiation

[•] The column of Remark indicates that the instruments used for conduction ("C") or radiation ("R") test.

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