SPORTON INTERNATIONAL INC.





FCC TEST REPORT

REPORT NO.: F843008

FCC TEST REPORT

for

PART 15, SUBPART B CLASS B

Equipment : MOUSE

MODEL NO.: NETSCROLL P+S, PS2, SERIAL

FCC ID: FSUGMZFV

Filing Type : Original Grant

APPLICANT: KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung,

Taipei Hsien, 241, 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.

SPORTON INTERNATIONAL INC.

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

SPORTON International Inc.

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SPORTON INTERNATIONAL INC.





FCC TEST REPORT

REPORT NO.: F843008

CERTIFICATE NO.: F843008

CERTIFICATE OF COMPLIANCE

for

FCC PART 15, SUBPART B CLASS B

Equipment : MOUSE

MODEL NO. : NETSCROLL P+S, PS2, SERIAL

FCC ID : FSUGMZFV

Filing Type : Original Grant

APPLICANT: KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung,

Taipei Hsien, 241, Taiwan, R.O.C.

I HEREBY CERTIFY THAT:

The measurement shown in this report were made in accordance with the procedures given in ANSI C63.4 -1992 and the energy emitted by this equipment was passed both radiated and conducted emissions class B limits. Testing was carried out on MAY. 08, 1998 at SPORTON International Inc. in LIN KOU.

W. L. Huang

General Manager

SPORTON International Inc.

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

SPORTON International Inc.

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1. GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST

1.1. APPLICANT

KYE SYSTEMS CORP.

No. 492, Sec. 5, Chung Hsin Rd., San Chung, Taipei Hsien, 241, Taiwan, R.O.C.

1.2. MANUFACTURER

Same as 1.1

1.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

EQUIPMENT: MOUSE

MODEL NO.: NETSCROLL P+S, PS2, SERIAL

FCC ID:FSUGMZFV

TRADE NAME :GENIUS

DATA CABLE : Shielded

POWER SUPPLY TYPE: N/A

POWER CORD: N/A

1.4. FEATURE OF EQUIPMENT UNDER TEST

- Compatible with all major application software.
- Ergonomic Design.
- Opto-mechanical Design.
- Micro-switch Button.
- High performance & reliability.
- For SERIAL, PS/2 Port.

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2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1. TEST MANNER

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.

- The DELL keyboard, SONY monitor, HP printer, GENIUS mouse and ACEEX modem were connected to the DELL PC.
- The serial mode and PS/2 mode were tested in order to find the maximum emissions. Since the serial mode generates the worst case, the mode was used as the final data.
- d. Frequency range investigated: Conduction 450 KHz to 30 MHz, Radiation 30 MHz to 1000 MHz.

2.2. DESCRIPTION OF TEST SYSTEM

Support Device 1. --- PERSONAL COMPUTER (DELL)

FCC ID

:N/A

Model No.

:DCS

Serial No.

:SP1040

Data Cable

:Shielded, 360 degree via metal backshells.

Power Supply Type : Switching

Power Cord

:Shielded

Remark: This support device was tested to comply with FCC standards and authorized under a declaration of conformity.

Support Device 2. --- MODEM (ACEEX)

FCC ID

:IFAXDM1414

Model No.

:DM1414

Serial No.

:SP0016

Data Cable

:Shielded, 360 degree via metal backshells

Power Supply Type :Linear

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Support Device 3. --- PRINTER (HP)

FCC ID

:B94C2642X

Model No.

:DESKJET 400

Serial No.

:SP0003

:Linear

Data Cable

:Shielded, 360 degree via metal backshells

Power Supply Type

Support Device 4. --- MONITOR (SONY)

FCC ID

:AK8GDM17SE2T

Model No.

:GDM-17SE2T

Serial No.

:SP1034

Data Cable

:Shielded

Power Supply Type : Switching

Power Cord

:Non-shielded

Support Device 5. --- KEYBOARD (DELL)

FCC ID

:GYUM92SK

Model No.

:AT101

Serial No.

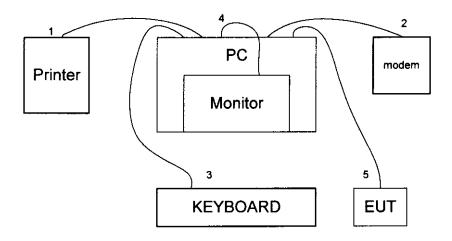
:SP1008

Data Cable

:Shielded, 360 degree via metal backshells

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2.3. CONNECTION DIAGRAM OF TEST SYSTEM



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

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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. 30-1, 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

FCC PART 15, SUBPART B CLASS B

4.4. FREQUENCY RANGE INVESTIGATED

a. Conduction : from 450 KHz to 30 MHzb. Radiation : from 30 MHz to 1000 MHz

4.5. TEST DISTANCE

The test distance of radiated emission from antenna to EUT is 3M.

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5. TEST OF CONDUCTED POWERLINE

Conducted Emissions were measured from 450 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 Figure 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 HP85462A

Attenuation 0 dB

Start Frequency 0.45 MHz

Stop Frequency 30 MHz

Step MHz 0.007 MHz

IF Bandwidth 9 KHz

FAX: 886-2-2696-2255

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5.2. TEST PROCEDURES

The EUT was placed 0.4 meter from the conducting wall of the shielding room and 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 450 KHz to 30 MHz was searched.

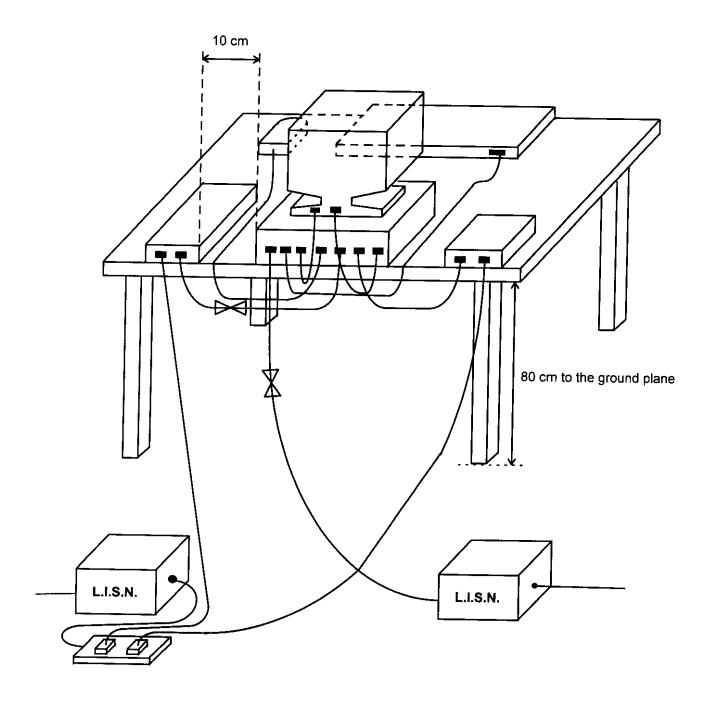
h. Set the test-receiver system (HP receiver 85462A) to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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 on 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

Frequency Range of Test: from 0.45 MHz to 30 MHz

Temperature : 22 °C

Relative Humidity: 46% RH

TEST MODE: SERIAL MODE

All emissions not reported here are more than 10 dB below the prescribed limit.

Test Date: MAY. 08, 1998

The Conducted Emission test was passed at minimum margin LINE 9.78MHz /43.20dBuV.

| Frequency | Line / Neutral | Meter Reading | | Limits | | Margin |
|-----------|----------------|---------------|--------|--------|--------|--------|
| (MHz) | | (dBuV) | (uV) | (dBuV) | (uV) | (dB) |
| 0.51 | L | 41.20 | 114.82 | 48.00 | 251.19 | -6.80 |
| 6.93 | L | 38.10 | 80.35 | 48.00 | 251.19 | -9.90 |
| 9.78 | L | 43.20 | 144.54 | 48.00 | 251.19 | -4.80 |
| 0.51 | N | 41.40 | 117.49 | 48.00 | 251.19 | -6.60 |
| 1.12 | N | 35.80 | 61.66 | 48.00 | 251.19 | -12.20 |
| 6.82 | N | 36.10 | 63.83 | 48.00 | 251.19 | -11.90 |

Test Engineer:

Alex

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6. TEST OF RADIATED EMISSION

Radiated emissions from 30 MHz to 1000MHz 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 Figure 6-3. The interface cables and equipment positions were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.

6.1. MAJOR MEASURING INSTRUMENTS

RF Preselector

Attenuation 0 dB RF Gain 20 dB

Signal Input 2 (for 20 MHz to 2 GHz)

Spectrum Analyzer 8568B

Attenuation 0 dB

Start Frequency 30 MHz
Stop Frequency 1000MHz

Resolution Bandwidth 1 MHz

Video Bandwidth 1 MHz

Signal Input 1 (for 100Hz to 1.5 GHz)

Quasi-Peak Adapter

Resolution Bandwidth 120 KHz

Frequency Band 30 MHz to 1 GHz

Quasi-Peak Detector ON for Quasi-Peak Mode

OFF for Peak Mode

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6.2. TEST PROCEDURES

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

b. The EUT was set 3 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.

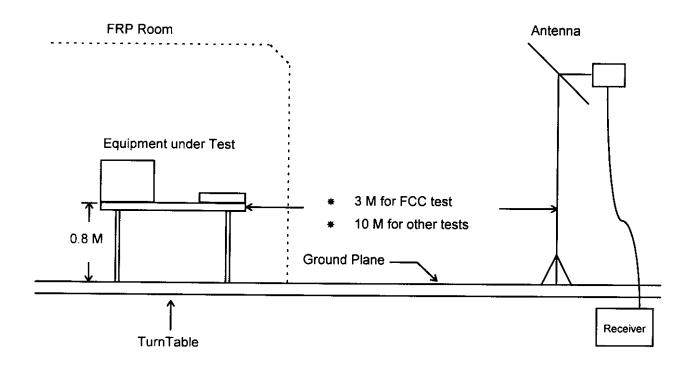
f. Set the test-receiver system (HP 8568B) to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

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

Equipment meets the technical specifications of 15.109

Frequency Range of Test: from 30 MHz to 1000 MHz

Test Distance : 3 M
Temperature : 20 °C

Relative Humidity :67% RH

TEST MODE: SERIAL MODE

Test Date :APR. 30, 1998

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

Sample Calculation at 265.20MHz
 Corrected Reading = 17.21+ 2.63+ 18.16= 38.00(dBuV/m)

The Radiated Emission test was passed at minimum margin Vertical 57.20MHz/33.27dBuV

Antenna Height 1Meter, Turntable Degree 74°

| Frequency | | Antenna | Cable | Reading | Lim | its | Emission | Level | Margin |
|-----------|----------|------------------|----------------|---------|--------|--------|----------|--------|--------|
| (MHz) | Polarity | Factor (dB) | Loss (dB) | (dBuV) | (dBuV) | (uV) | (dBuV) | (uV) | (dB) |
| 66.30 | Н | 5.26 | 1.20 | 24.00 | 40.00 | 100 | 30.46 | 33.34 | -9.54 |
| 48.20 | V | 2.00 | 1.00 | 28.84 | 40.00 | 100 | 31.84 | 39.08 | -8.16 |
| 57.20 | V | 3.69 | 1.15 | 28.43 | 40.00 | 100 | 33.27 | 46.08 | -6.73 |
| 64.30 | V | 5.04 | 1.20 | 25.61 | 40.00 | 100 | 31.85 | 39.13 | -8.15 |
| 233.30 | V | 14.84 | 2.47 | 17.61 | 46.00 | 200 | 34.92 | 55.72 | -11.08 |
| 265.20 | V | 17.21 | 2.63 | 18.16 | 46.00 | 200 | 38.00 | 79.43 | -8.00 |

Test Engineer:

Peter Namy

FAX: 886-2-2696-2255

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7. ANTENNA FACTOR AND CABLE LOSS

| Frequency (Mhz) | Antenna Factor (dB) | Cable Leas (dB) |
|-------------------|-----------------------|-------------------|
| 30 | -2.20 | Cable Loss (dB) |
| 35 | -0.70 | 0.80 |
| 40 | 0.51 | 0.82 |
| 45 | 1.30 | 1.00 |
| 50 | 2.39 | |
| 55 | 3.14 | 1.00 |
| 60 | 3.14 4.40 | 1.11 1.20 |
| 65 | 5.14 | 1.20 |
| 70 | 5.59 | |
| 75 | 6.11 | 1.20 |
| 80 | | 1.30 |
| 85 | 7.10 | 1.40 |
| 90 | 7.53 8.22 | 1.40 |
| 95 | | 1.40 |
| 100 | 8.80 | 1.40 |
| | 9.36 | 1.50 |
| 110 120 | 10.11 | 1.60 |
| 130 | 10.41 | 1.70 |
| | 10.74 | 1.80 |
| 140 | 11.42 | 1.91 |
| 150 | 11.91 | 2.01 |
| 160 | 12.25 | 2.01 |
| 170 | 12.22 | 2.21 |
| 180 | 13.02 | 2.30 |
| 190 | 13.50 | 2.30 |
| 200 | 14.05 | 2.40 |
| 220 | 14.31 | 2.40 |
| 240 | 15.11 | 2.50 |
| 260 | 17.11 | 2.61 |
| 280 | 17.50 | 2.70 |
| 300 | 17.99 | 3.11 |
| 320 | 18.10 | 3.10 |
| 340 | 19.13 | 3.20 |
| 360 | 20.14 | 3.30 |
| 380 | 21.81 | 3.40 |
| 400 | 22.29 | 3.60 |
| 450 | 22.40 | 3.80 |
| 500 | 22.31 | 4.10 |
| 550 | 23.42 | 4.40 |
| 600 | 24.01 | 4.60 |
| 650 | 25.11 | 5.00 |
| 700 | 26.00 | 5.30 |
| 750 | 26.51 | 5.51 |
| 800 | 27.10 | 5.70 |
| 850 | 27.51 | 5.90 |
| 900 | 27.90 | 6.20 |
| 950 | 30.01 | 6.30 |
| 1000 | 29.00 | 6.40 |
| | | U.TU |

 $[\]divideontimes$ Remark: For frequency above 1000 MHz, we used low cable loss BNC cable to test.

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8. LIST OF MEASURING INSTRUMENTS USED

| | т — | | | | |
|--------------|---|---|---|---|---|
| Manufacturer | Model No. | Serial No. | Characteristic | Calibration date | Remark |
| HP | 85462A | 3325A00108 | 9 KHz - 6.5 GHz | Oct. 22, 1997 | С |
| HP | 85460A | 3308A00104 | 9 KHz - 6.5 GHz | Oct. 22, 1997 | С |
| EMCO | 3850/2 | 1035 | 50 ohm / 50 uH | Oct. 27, 1997 | С |
| KYORITSU | KNW-407 | 8-693-10 | 50 ohm / 50 uH | Oct. 04, 1997 | С |
| CORCOM | MRI-2030 | N/A | 480 VAC / 30 A | N/A | С |
| CORCOM | MRI-2030 | N/A | 480 VAC / 30 A | N/A | С |
| НР | 8568B | 2732A04100 | 100Hz - 1500GHz | Jun 17, 1997 | R |
| HP | 85650A | 2811A01116 | 9KHz -1 GHz | Jun. 17, 1997 | R |
| HP | 8447D | 2944A08291 | 0.1 MHz -1.3 GHz | Nov. 12, 1997 | R |
| CHASE | CBL6111 | 1378 | 30 MHz -1000 MHz | Aug. 11, 1997 | R |
| EMCO | 3121C | 9705-1285 | 28M-1GHZ | May. 19, 1997 | R |
| EMCO | 1060-1.211 | 9508-1805 | 0 ~ 360 degree | N/A | R |
| EMCO | 1051-1.2 | 9502-1868 | 1 m- 4 m | N/A | R |
| | HP EMCO KYORITSU CORCOM HP HP HP CHASE EMCO EMCO | HP 85462A HP 85460A EMCO 3850/2 KYORITSU KNW-407 CORCOM MRI-2030 HP 8568B HP 85650A HP 8447D CHASE CBL6111 EMCO 3121C EMCO 1060-1.211 | HP 85462A 3325A00108 HP 85460A 3308A00104 EMCO 3850/2 1035 KYORITSU KNW-407 8-693-10 CORCOM MRI-2030 N/A CORCOM MRI-2030 N/A HP 8568B 2732A04100 HP 85650A 2811A01116 HP 8447D 2944A08291 CHASE CBL6111 1378 EMCO 3121C 9705-1285 EMCO 1060-1.211 9508-1805 | HP 85462A 3325A00108 9 KHz - 6.5 GHz HP 85460A 3308A00104 9 KHz - 6.5 GHz EMCO 3850/2 1035 50 ohm / 50 uH KYORITSU KNW-407 8-693-10 50 ohm / 50 uH CORCOM MRI-2030 N/A 480 VAC / 30 A CORCOM MRI-2030 N/A 480 VAC / 30 A HP 8568B 2732A04100 100Hz - 1500GHz HP 85650A 2811A01116 9KHz -1 GHz HP 8447D 2944A08291 0.1 MHz -1.3 GHz CHASE CBL6111 1378 30 MHz -1000 MHz EMCO 3121C 9705-1285 28M-1GHZ EMCO 1060-1.211 9508-1805 0 ~ 360 degree | HP 85462A 3325A00108 9 KHz - 6.5 GHz Oct. 22, 1997 HP 85460A 3308A00104 9 KHz - 6.5 GHz Oct. 22, 1997 EMCO 3850/2 1035 50 ohm / 50 uH Oct. 27, 1997 KYORITSU KNW-407 8-693-10 50 ohm / 50 uH Oct. 04, 1997 CORCOM MRI-2030 N/A 480 VAC / 30 A N/A CORCOM MRI-2030 N/A 480 VAC / 30 A N/A HP 8568B 2732A04100 100Hz - 1500GHz Jun 17, 1997 HP 8447D 2944A08291 0.1 MHz -1.3 GHz Nov. 12, 1997 CHASE CBL6111 1378 30 MHz -1000 MHz Aug. 11, 1997 EMCO 3121C 9705-1285 28M-1GHZ May. 19, 1997 EMCO 1060-1.211 9508-1805 0 ~ 360 degree N/A |

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

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