



EMC

TEST REPORT

REPORT NO. : F88031961
MODEL NO. : LEGO Cam-001
DATE OF TEST : Mar. 22, 1999

MULTIPLE LISTING FOR : ElecVision
MODEL : EVCam250KU

PREPARED FOR: ElecVision Inc.

ADDRESS : 2F, NO. 9, INDUSTRY E. ROAD IX, SCIENCE-BASED
INDUSTRIAL PARK, HSIN-CHU, TAIWAN, R.O.C.

PREPARED BY: ADVANCE DATA TECHNOLOGY CORPORATION



Accredited Laboratory

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1.

CERTIFICATION

Issue Date: June 19, 1999

Product : PC-Camera
Trade Name : LEGO, ElecVision
Model No. : LEGO Cam-001, EVCam250KU
Applicant : ElecVision Inc.
Standard : FCC Part 15, Subpart B, Class B
ANSI C63.4-1992
CISPR 22:1993+A1: 1995+A2: 1996

We hereby certify that one sample of the designation had been tested in our facility on March 22, 1999. The test record, data evaluation and Equipment Under Test (EUT) configurations represent herein are true and accurate representation of the measurements of the sample's EMC characteristics under the conditions herein specified.

The test results show that the EUT as described in this report was in compliance with the Class B limits of conducted and radiated emission of applicable standards

TESTED BY: Rico Teng, DATE: 6/19/99
(Rico Teng)

CHECKED BY: Rita Yi, DATE: 6/19/99
(Rita Yi)

APPROVED BY: Stephen W.F. Chen, DATE: 6/19/99
(Stephen W.F. Chen)

ADVANCE DATA TECHNOLOGY CORPORATION**NVLAP[®]**

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product : PC-Camera
Model No. : LEGO Cam-001
Power Supply : DC 5V
Data Cable : USB shielded cable (5m)
EPP shielded cable (1.5m)

Note: The EUT is a PC-Camera with USB or EPP interface. It provided user to capture still pictures, live video or stop frame video into their computer, and it can be incorporated into report, presentations and web pages.

The EUT has two model names which are identical to each other in all aspects except for the followings:

| Model Name | Brand |
|--------------|------------|
| LEGO Cam-001 | LEGO |
| EVCam250KU | ElecVision |

Since the EUT could be supplied with USB or EPP interface, those two configuration were tested individually and their test data were recorded in the report.

For more detailed features, please refer to ATTACHMENT 1 - TECHNICAL DESCRIPTION OF EUT and User's Manual.



2.2 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories are used to form representative test configuration during the tests.

FOR USB TEST MODE

| No | Product | Brand | Model No. | FCC DoC | I/O Cable |
|----|-------------------|----------|-----------|------------|--|
| 1 | PERSONAL COMPUTER | IBM | 2156-DIJ | FCC DoC | Nonshielded Power (1.8m) |
| 2 | MONITOR | COMPAQ | V410 | BJMC4A | Shielded Signal (1.2m) Nonshielded Power (1.8m) |
| 3 | PRINTER | HP | C2642A | B94C2642X | Shielded Signal (1.2m) Nonshielded Power (1.8m) |
| 4 | MODEM | ACEEX | 1414 | IFAXDM1414 | Shielded Signal (1.1m) Nonshielded Power (2.1m) |
| 5 | MOUSE | LOGITECH | M-S34 | DZL211029 | Shielded Signal (1.8m) |
| 6 | KEYBOARD | FORWARD | FDA-104GA | F4ZDA-104G | Shielded Signal (1.4m) |

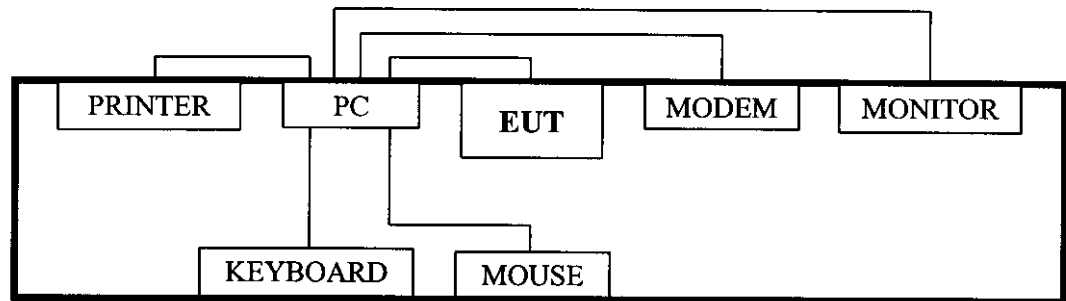
FOR EPP TEST MODE

| No | Product | Brand | Model No. | Serial No. | I/O Cable |
|----|-------------------|----------|-----------|------------|--|
| 1 | PERSONAL COMPUTER | IBM | 2156-DIJ | FCC DoC | Nonshielded Power (1.8m) |
| 2 | MONITOR | COMPAQ | V410 | BJMC4A | Shielded Signal (1.2m) Nonshielded Power (1.8m) |
| 3 | MODEM | ACEEX | 1414 | IFAXDM1414 | Shielded Signal (1.1m) Nonshielded Power (2.1m) |
| 4 | MOUSE | LOGITECH | M-S34 | DZL211029 | Shielded Signal (1.8m) |
| 5 | KEYBOARD | FORWARD | FDA-104GA | F4ZDA-104G | Shielded Signal (1.4m) |

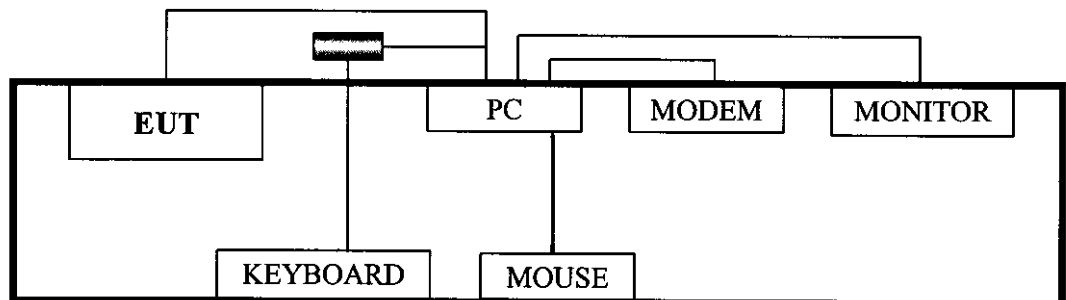


2.3 TEST METHODOLOGY AND CONFIGURATION

FOR USB TEST MODE



FOR EPP TEST MODE



Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:1992. Radiated testing was performed at an antenna to EUT distance of 10m on an open area test site. Please refer to the photos of test configuration in Item 5.



3. TEST INSTRUMENTS

3.1 TEST INSTRUMENTS (EMISSION)

RADIATED EMISSION MEASUREMENT

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|-------------------------------------|------------------------|-------------|------------------|
| HP Spectrum Analyzer | 8594E | 3710A04861 | Sep. 14, 1999 |
| CHASE RF Pre Amplifier | CPA9232 | 1001 | Jan. 31, 2000 |
| ROHDE & SCHWARZ Test Receiver | ESVS 10 | 846285/012 | Dec. 15, 1999 |
| CHASE Broadband Antenna | CBL6112A | 2342 | June 24, 1999 |
| ROHDE & SCHWARZ Precision Dipole | HZ-12 (30~300MHz) | 846932/0003 | June 06, 2000 |
| ROHDE & SCHWARZ Precision Dipole | HZ-13 (300~1000MHz) | 846556/0007 | June 17, 2000 |
| EMCO Antenna Tower | 2075-2 | 9712-2124 | N/A |
| EMCO Turn Table | 2081-1.53 | 9712-2030 | N/A |
| CORCOM AC Filter | MRI2030 | 107/108 | N/A |
| Open Field Test Site | Site A | ADT-RA | July 08, 1999 |

Note: 1. The measurement uncertainty is less than +/- 3dB, which is calculated as per NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months.
And the calibrations are traceable to NML/ROC and NIST/USA.

CONDUCTED EMISSION MEASUREMENT

| Description & Manufacturer | Model No. | Serial No. | Calibrated Until |
|----------------------------------|-----------|------------|------------------|
| ROHDE & SCHWARZ Test Receiver | ESCS 30 | 847124/029 | Nov. 13, 1999 |
| ROHDE & SCHWARZ LISN | ESHS-Z5 | 848773/004 | Nov. 11, 1999 |
| KYORITSU LISN | KNW-407 | 8/1395/12 | July 15, 1999 |
| Shielded Room | Con A | ADT-CA | N/A |

Note: 1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per NAMAS document NIS81.

2. The calibration interval of the above test instruments is 12 months.
And the calibrations are traceable to NML/ROC and NIST/USA.



3.2 LIMITS OF CONDUCTED AND RADIATED EMISSION

LIMIT OF RADIATED EMISSION OF CISPR 22

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 10m) |
|--------------------|------------------|------------------|
| | dBuV/m | dBuV/m |
| 30 - 230 | 40 | 30 |
| 230 - 1000 | 47 | 37 |

LIMIT OF RADIATED EMISSION OF FCC PART 15, SUBPART B FOR FREQUENCY ABOVE 1000 MHz

| FREQUENCY (MHz) | Class A (at 10m) | | Class B (at 3m) | |
|--------------------|------------------|--------|-----------------|--------|
| | uV/m | dBuV/m | uV/m | dBuV/m |
| Above 1000 | 300 | 49.5 | 500 | 54.0 |

Note: (1) The lower limit shall apply at the transition frequencies.

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

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

LIMIT OF CONDUCTED EMISSION OF CISPR 22

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|--------------------|----------------|---------|----------------|---------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 |

Note: (1) The lower limit shall apply at the transition frequencies.

(2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.



4. TEST RESULTS (EMISSION)

4.1 RADIO DISTURBANCE

Frequency Range : 0.15 - 30 MHz (Conducted Emission)
30 - 1000 MHz (Radiated Emission)
Input Voltage : DC 5V
Temperature : 22 °C
Humidity : 60 %
Atmospheric Pressure : 986 mbar

| TEST RESULT | Remarks |
|-------------|---|
| PASS | Minimum passing margin of conducted emission: -12.00 dB at 4.410 MHz Minimum passing margin of radiated emission: -2.0 dB at 48.00 MHz |

4.1.1 EUT OPERATION CONDITION

1. Turn on the power of all equipments.
2. PC reads a test program to enable all functions.
3. EUT captures images and sends image messages to PC.
4. PC sends image messages and "H" messages to monitor and monitor displays these messages simultaneously on screen.
5. PC sends "H" messages to modem (for USB mode only).
6. PC sends "H" messages to printer, and the printer prints them on paper.
7. Repeat steps 3-7.



4.2 TEST DATA OF CONDUCTED EMISSION (A)

EUT: PC-Camera

MODEL: LEGO Cam-001

TEST MODE: USB MODE

6 dB Bandwidth: 10 kHz

| Freq. | L Level | | N Level | | Limit | | Margin [dB (μV)] | | | |
|-------|-----------|----|-----------|----|-----------|-------|------------------|----|--------|----|
| [MHz] | [dB (μV)] | | [dB (μV)] | | [dB (μV)] | | L | | N | |
| | QP | AV | QP | AV | QP | AV | QP | AV | QP | AV |
| 3.843 | 40.00 | - | 40.80 | - | 56.00 | 46.00 | -16.00 | - | -15.20 | - |
| 4.080 | 42.50 | - | 42.90 | - | 56.00 | 46.00 | -13.50 | - | -13.10 | - |
| 4.410 | 44.00 | - | 43.80 | - | 56.00 | 46.00 | -12.00 | - | -12.20 | - |
| 5.125 | 42.60 | - | 42.50 | - | 60.00 | 50.00 | -17.40 | - | -17.50 | - |
| 7.734 | 44.80 | - | 45.00 | - | 60.00 | 50.00 | -15.20 | - | -15.00 | - |
| 9.203 | 42.90 | - | 43.40 | - | 60.00 | 50.00 | -17.10 | - | -16.60 | - |

- Remarks:
1. "*": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 4. The emission level of other frequencies were very low against the limit.

EUT: LEGO Cam-001
Op Cond: USB MODE
Test Spec: LISN :L
Comment: 120V AC / 60Hz
Date: 22. Mar 99 10:08

Report No.: F88031961

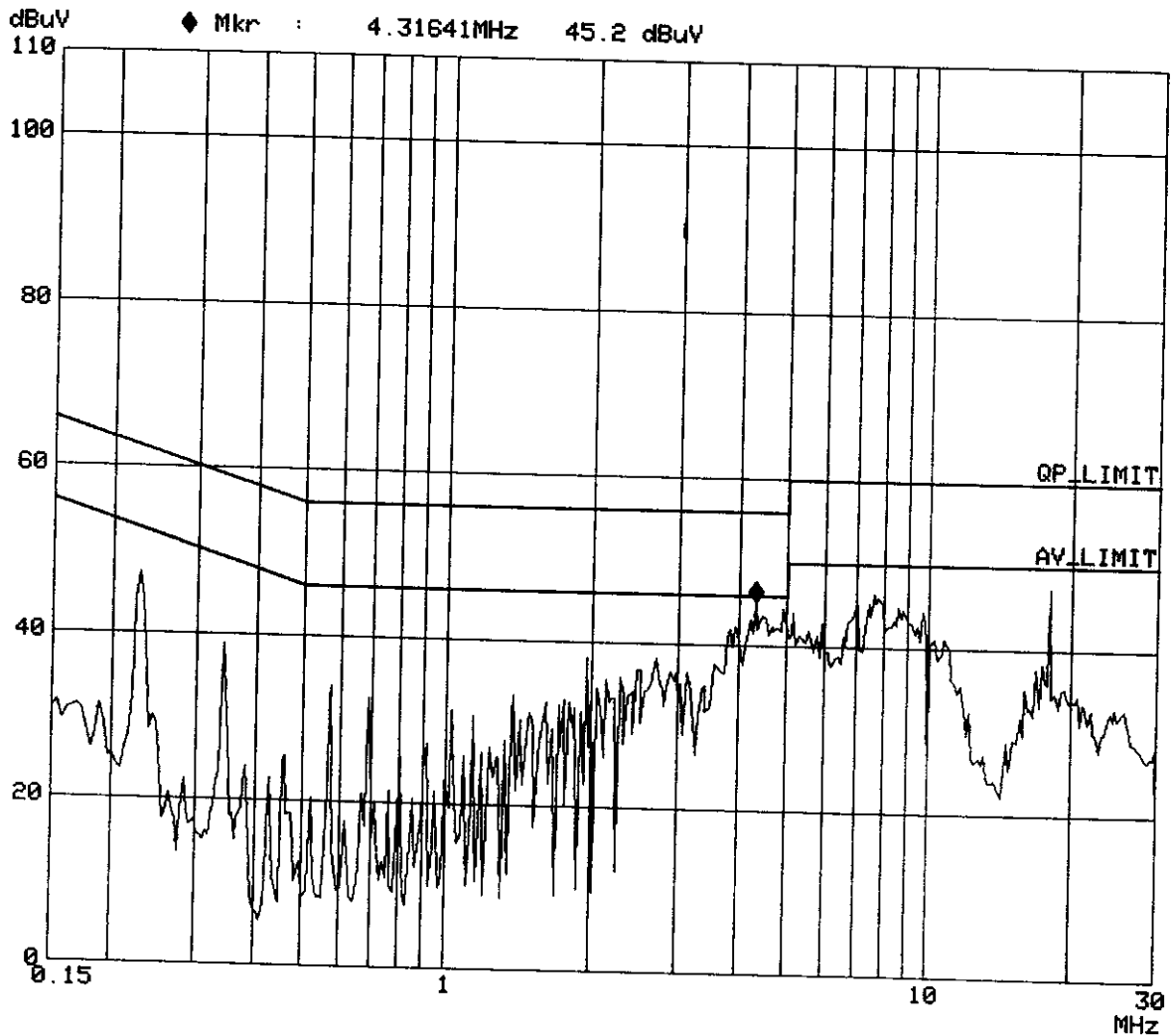
Page: 10-1

Test By: *Rico Tong*

Overview Scan Settings (3 Ranges)

| Frequencies | | | Receiver Settings | | | | |
|-------------|------|----------|-------------------|----------|--------|--------|--------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp |
| 150k | 3M | 3.90625k | 9k | PK | 10ms | 10dBLN | OFF |
| 3M | 10M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |
| 10M | 30M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |

| Transducer No. | Start | Stop | Name |
|----------------|-------|------|----------|
| 1 | 150k | 30M | C_CA_01A |



ADT CORP. SHIELDED ROOM A

CISPR 22 CLASS B

EUT: LEGO Cam-001
 Op Cond: USB MODE
 Test Spec: LISN :N
 Comment: 120V AC / 60Hz
 Date: 22. Mar 99 10:03

Report No.: F88031961

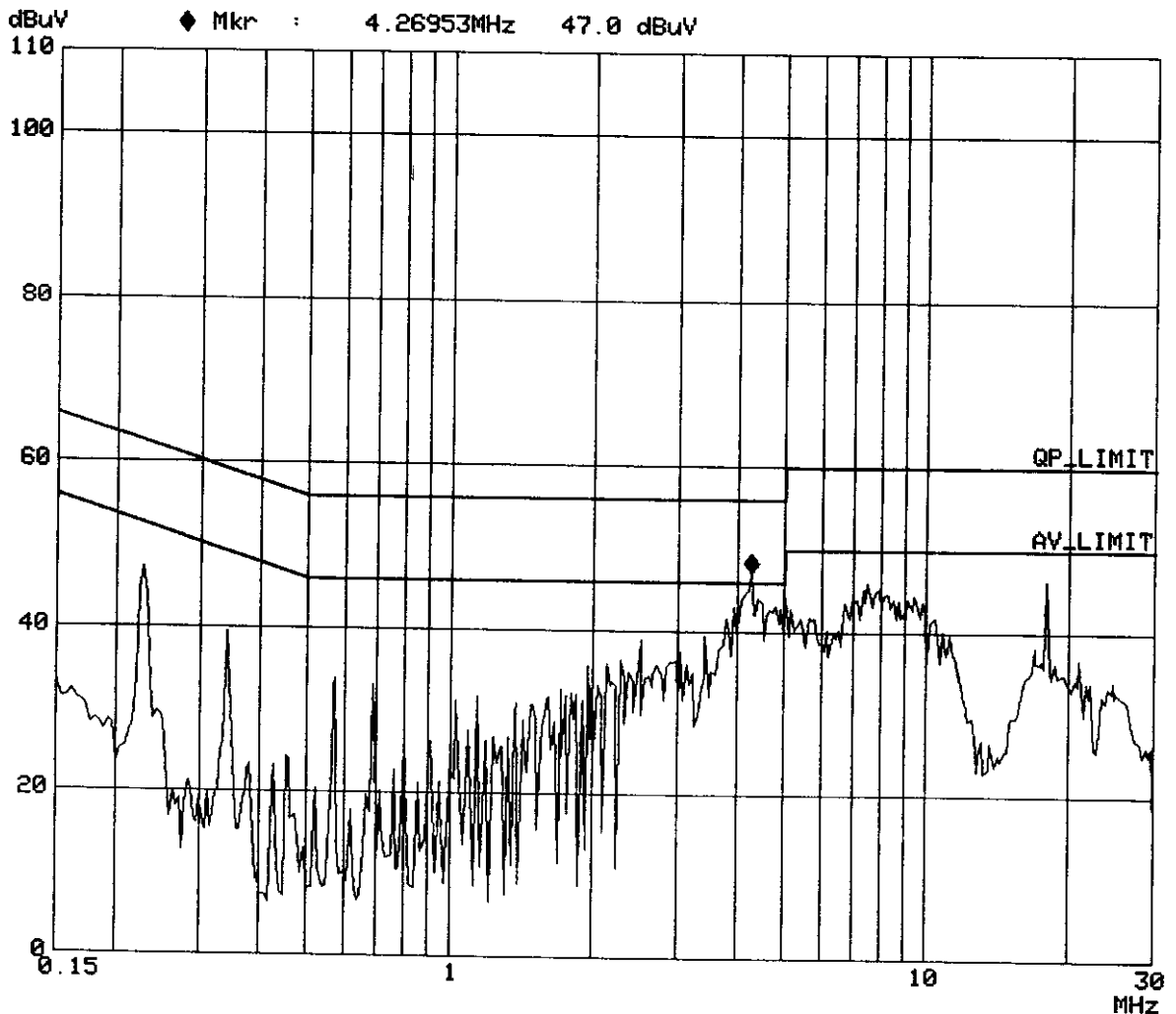
Page: 10-2

Test By: *Dico Teng*

Overview Scan Settings (3 Ranges)

| Frequencies | | | Receiver Settings | | | | |
|-------------|------|----------|-------------------|----------|--------|--------|--------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp |
| 150k | 3M | 3.90625k | 9k | PK | 10ms | 10dBLN | OFF |
| 3M | 10M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |
| 10M | 30M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |

| | | | |
|----------------|-------|------|----------|
| Transducer No. | Start | Stop | Name |
| 1 | 150k | 30M | C_CA_01A |





4.3 TEST DATA OF CONDUCTED EMISSION (B)

EUT: PC-CameraMODEL: LEGO Cam-001TEST MODE: EPP MODE6 dB Bandwidth: 10 kHz

| Freq. | L Level | | N Level | | Limit | | Margin [dB (μV)] | | | |
|--------|-----------|----|-----------|----|-----------|-------|------------------|----|--------|----|
| [MHz] | [dB (μV)] | | [dB (μV)] | | [dB (μV)] | | L | | N | |
| | QP | AV | QP | AV | QP | AV | QP | AV | QP | AV |
| 3.890 | 40.90 | - | 41.40 | - | 56.00 | 46.00 | -15.10 | - | -14.60 | - |
| 4.648 | 42.50 | - | 42.50 | - | 56.00 | 46.00 | -13.50 | - | -13.50 | - |
| 5.027 | 44.10 | - | 43.3 | - | 60.00 | 50.00 | -15.90 | - | -16.70 | - |
| 7.781 | 42.20 | - | 42.10 | - | 60.00 | 50.00 | -17.80 | - | -17.90 | - |
| 12.476 | 39.70 | - | 39.80 | - | 60.00 | 50.00 | -20.30 | - | -20.20 | - |
| 13.281 | 42.70 | - | 42.80 | - | 60.00 | 50.00 | -17.30 | - | -17.20 | - |

- Remarks:
1. "": Undetectable
 2. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 3. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 4. The emission level of other frequencies were very low against the limit.

ADT CORP. SHIELDED ROOM A

CISPR22 CLASS B

EUT: LEGO Cam-001
Op Cond: EPP MODE
Test Spec: LISN :L
Comment: 120V AC / 60Hz
Date: 22. Mar 99 11:15

Report No.: F88031961

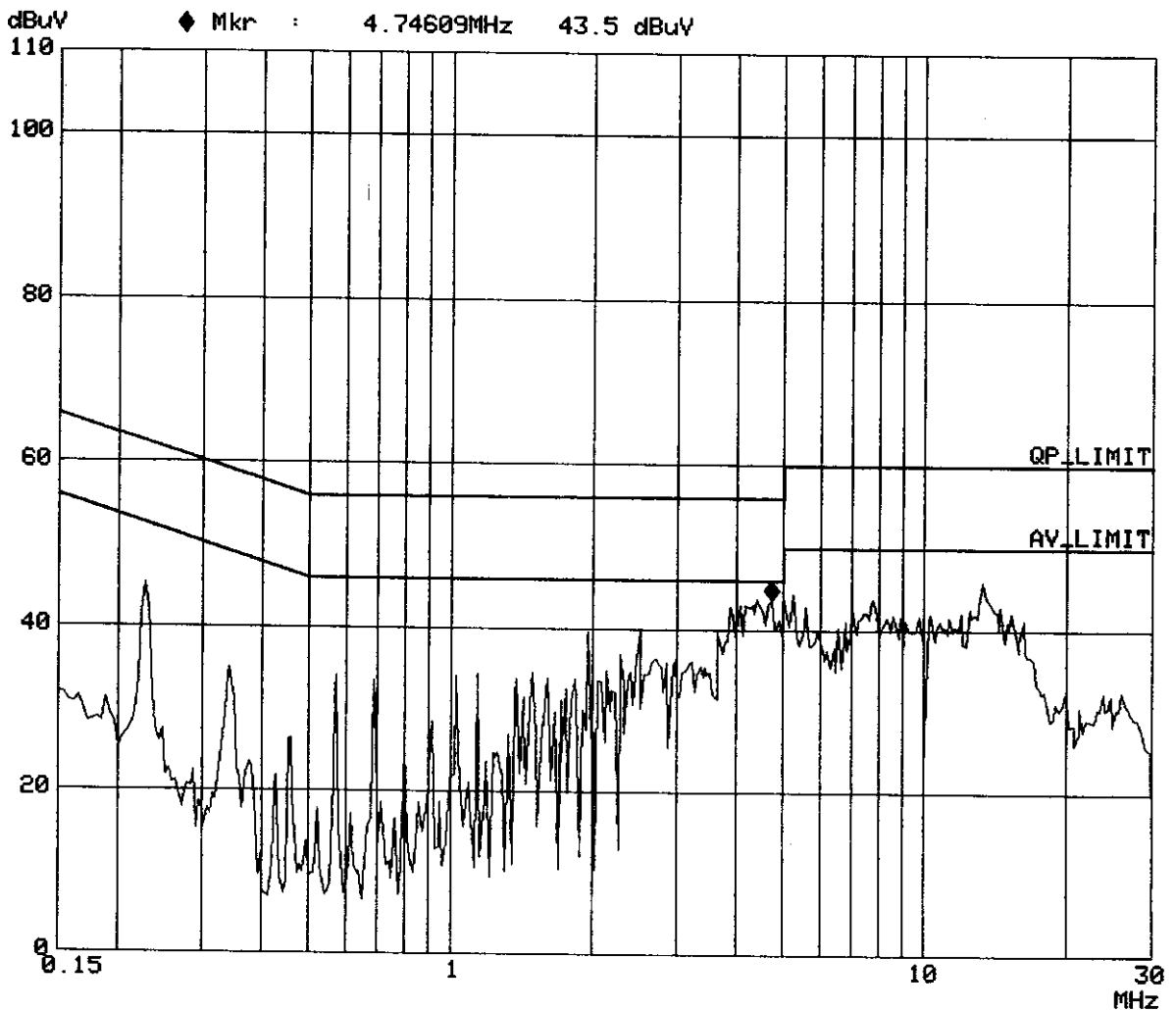
Page: 11-1

Test By: Rico Tong

Overview Scan Settings (3 Ranges)

| Frequencies | | | Receiver Settings | | | | |
|-------------|------|----------|-------------------|----------|--------|--------|--------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp |
| 150k | 3M | 3.90625k | 9k | PK | 10ms | 10dBLN | OFF |
| 3M | 10M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |
| 10M | 30M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |

| Transducer No. | Start | Stop | Name |
|----------------|-------|------|----------|
| 1 | 150k | 30M | C_CA_01A |



ADT CORP. SHIELDED ROOM A
 CISPR22 CLASS B
 EUT: LEGO Cam-001
 Op Cond: EPP MODE
 Test Spec: LISN :N
 Comment: 120V AC / 60Hz
 Date: 22. Mar 99 11:24

Report No.: F88031961

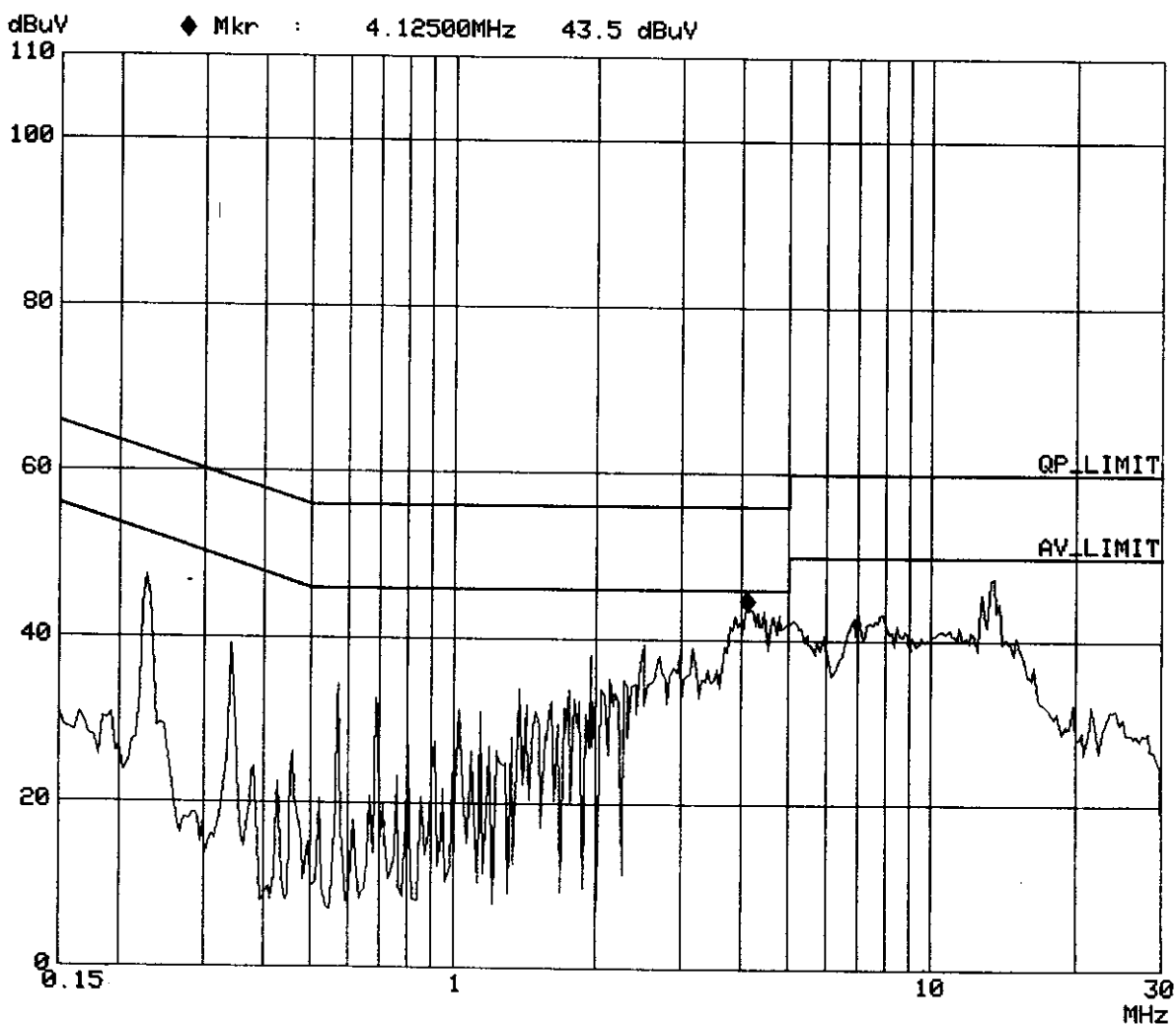
Page: 11-2

Test By: *Dico Teng*

Overview Scan Settings (3 Ranges)

| Frequencies | | | Receiver Settings | | | | |
|-------------|------|----------|-------------------|----------|--------|--------|--------|
| Start | Stop | Step | IF BW | Detector | M-Time | Atten | Preamp |
| 150k | 3M | 3.90625k | 9k | PK | 10ms | 10dBLN | OFF |
| 3M | 10M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |
| 10M | 30M | 3.90625k | 9k | PK | 0.05ms | 10dBLN | OFF |

| Transducer No. | Start | Stop | Name |
|----------------|-------|------|----------|
| 1 | 150k | 30M | C_CA_01A |





4.4 TEST DATA OF RADIATED EMISSION (A)

EUT: PC-CameraMODEL: LEGO Cam-001TEST MODE: USB MODEANT. POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

| Frequency (MHz) | Correction Factor (dB/m) | Reading Data (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|---------------------------|-------------------------------|--------------------|----------------|
| 48.01 | 10.4 | 11.0 | 21.4 | 30.0 | -8.6 |
| 54.02 | 7.9 | 16.0 | 23.9 | 30.0 | -6.1 |
| 72.00 | 7.6 | 14.5 | 22.1 | 30.0 | -7.9 |
| 72.20 | 7.7 | 15.0 | 22.7 | 30.0 | -7.3 |
| 192.00 | 12.0 | 15.8 | 27.8 | 30.0 | -2.2 |
| 217.24 | 11.7 | 8.7 | 20.4 | 30.0 | -9.6 |

REMARKS:

1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m) + Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value

**TEST DATA OF RADIATED EMISSION (A)**EUT: PC-CameraMODEL: LEGO Cam-001TEST MODE: USB MODEANT. POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

| Frequency (MHz) | Correction Factor (dB/m) | Reading Data dBuV | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------------|-------------------------------|--------------------|----------------|
| 48.00 | 10.6 | 17.4 | 28.0 | 30.0 | -2.0 |
| 54.01 | 8.3 | 19.0 | 27.3 | 30.0 | -2.7 |
| 60.53 | 6.9 | 17.0 | 23.9 | 30.0 | -6.1 |
| 114.01 | 13.7 | 11.0 | 24.7 | 30.0 | -5.3 |
| 192.01 | 13.0 | 14.9 | 27.8 | 30.0 | -2.1 |
| 884.80 | 27.3 | 4.0 | 31.3 | 37.0 | -5.7 |

- REMARKS:
1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
 2. Correction Factor (dB/m) = Ant. Factor (dB/m) + Cable loss (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level - Limit value



4.5 TEST DATA OF RADIATED EMISSION (B)

EUT: PC-CameraMODEL: LEGO Cam-001TEST MODE: EPP MODEANT. POLARITY: HorizontalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

| Frequency (MHz) | Correction Factor (dB/m) | Reading Data (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|---------------------------|-------------------------------|--------------------|----------------|
| 226.50 | 12.3 | 6.0 | 18.3 | 30.0 | -11.7 |
| 520.93 | 22.9 | 12.0 | 34.9 | 37.0 | -2.1 |
| 525.41 | 23.0 | 11.0 | 34.0 | 37.0 | -3.0 |
| 528.00 | 23.0 | 11.7 | 34.7 | 37.0 | -2.3 |
| 552.97 | 23.5 | 8.6 | 32.1 | 37.0 | -4.9 |
| 577.55 | 23.9 | 6.1 | 30.0 | 37.0 | -7.0 |

REMARKS:

1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m) + Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value



TEST DATA OF RADIATED EMISSION (B)

EUT: PC-CameraMODEL: LEGO Cam-001TEST MODE: EPP MODEANT. POLARITY: VerticalDETECTOR FUNCTION: Quasi-peak6 dB BANDWIDTH: 120 kHzFREQUENCY RANGE: 30-1000 MHzMEASURED DISTANCE: 10 M

| Frequency (MHz) | Correction Factor (dB/m) | Reading Data dBuV | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) |
|--------------------|--------------------------------|-------------------------|-------------------------------|--------------------|----------------|
| 50.95 | 9.0 | 17.0 | 26.0 | 30.0 | -4.0 |
| 53.70 | 8.3 | 16.0 | 24.3 | 30.0 | -5.7 |
| 226.50 | 13.3 | 10.0 | 23.3 | 30.0 | -6.7 |
| 522.50 | 22.7 | 12.0 | 34.7 | 37.0 | -2.3 |
| 525.55 | 22.8 | 5.2 | 28.0 | 37.0 | -9.0 |
| 528.90 | 22.8 | 11.3 | 34.1 | 37.0 | -2.9 |

REMARKS:

1. Emission level (dBuV/m) = Correction Factor (dB/m) + Meter Reading (dBuV).
2. Correction Factor (dB/m) = Ant. Factor (dB/m) + Cable loss (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level - Limit value