

CERTIFICATE OF COMPLIANCE

EUT : Industrial PC
MODEL NO. : AMB-618HT
Final Test Date : 9/19/98 REPORT #: EA7I011
APPLICANT : Astech Technology CO., LTD.
ADDRESS : 6F-4, NO. 351, CHUNG-SHAN RD.,
SEC. 2, CHUNG-HO CITY, TAIPEI,
TAIWAN, R. O. C.

MEASUREMENT PROCEDURE USED :

- | | |
|--|--|
| ☒ EN50081-1 (1992) | ☒ EN50082-1 (1992) |
| ☐ EN50081-2 (1992) | ☐ EN50082-2 (1992) |
| ☐ EN55011 (1994) | ☒ IEC 801-2 (1984) |
| ☒ EN55022 (1994) | ☒ IEC 801-3 (1984) |
| ☐ EN60555-2 (1987) | ☒ IEC 801-4 (1988) |
| ☐ EN60555-3 (1987) | |

WE HEREBY SHOW THAT :

THE MEASUREMENT SHOWN IN THE ATTACHMENT WERE MADE IN ACCORDANCE WITH THE PROCEDURES INDICATED, AND THE ENERGY EMITTED BY THE EQUIPMENT WAS FOUND TO BE WITHIN THE LIMITS APPLICABLE.

PREPARED BY : Angel DATE : 9/25/98
ANGEL CHEN

CHECK BY : Mike Huang DATE : 9/26/98
MIKE HUANG

APPROVED BY : Grant Huang DATE : 9/26/98
GRANT HUANG/Manager



Declaration of Conformity

We(Manufacturer/Importer)

Astech Technology CO., LTD.

(company name)

6F-4, NO. 351, CHUNG-SHAN RD., SEC. 2,
CHUNG-HO CITY, TAIPEI, TAIWAN, R. O. C.

(address)

declares under our sole responsibility that the product

Product name : Industrial PC

Model No. : AMB-618HT

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

- | | |
|--|--|
| ☒ EN50081-1 (1992) | ☒ EN50082-1 (1992) |
| ☐ EN50081-2 (1992) | ☐ EN50082-2 (1992) |
| ☐ EN55011 (1994) | ☒ IEC 801-2 (1984) |
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| ☐ EN60555-2 (1987) | ☒ IEC 801-4 (1988) |
| ☐ EN60555-3 (1987) | ☐ IEC 1000-4-5 |
| | ☐ IEC 1000-4-8 |
| | ☐ IEC 1000-4-11 |

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____



Title: _____

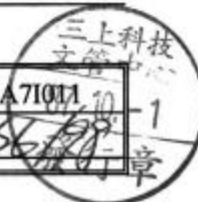


Tested by HomeTek Technology Inc.

Signature: *Gant Hong*

Report#: EA71011

Date: 9/5/98



Declaration of Conformity

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| ☐ EN60555-2 (1987) | ☒ IEC 801-4 (1988) |
| ☐ EN60555-3 (1987) | ☐ IEC 1000-4-5 |
| | ☐ IEC 1000-4-8 |
| | ☐ IEC 1000-4-11 |

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____



Title: _____



Tested by HomeTek Technology Inc.

Report#: EA7101

Signature: *Gant + Kong*

Date: 9/5/98





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GENERAL INFORMATION

- 1 APPLICANT : Astech Technology CO., LTD.
- 2 ADDRESS : 6F-4, NO. 351, CHUNG-SHAN RD.,
SEC. 2, CHUNG-HO CITY, TAIPEI,
TAIWAN, R. O. C.
- 3 DESCRIPTION OF EUT :

EUT	: <u>Industrial PC</u>
Model	: <u>AMB-618HT</u>
Serial #	: <u>N/A</u>
Data Cable	: <u>SHIELDED</u>
Power Cord	: <u>UN-SHIELDED</u>
Power Supply Type	: <u>SWITCHING</u>



4 FEATURES OF EUT :

- 4.1 Compact size 10.4" color TFT LCD display
- 4.2 Universal 250W switching power supply (or other options)
- 4.3 Analog resistive touchscreen (option)
- 4.4 19" rack mount or desktop application
- 4.5 Two 64 CFM cooling fans
- 4.6 Space for one 3.5" FDD, two 3.5" HDD and one 5.25" CD-ROM
- 4.7 Brightness & contrast controllers, external keyboard connector, FDD slot behind a lockable door on the front panel
- 4.8 Blank or with 62-key seal-membrane keypad lockable front door
- 4.9 Hold-down clamp for keeping add-on cards from vibration
- 4.10 14-slot ISA-Bus or PCI-Bus passive backplane
- 4.11 Universal 250W switching power supply or redundant power supply (option)
- 4.12 Analog resistive touchscreen (option)





HomeTek Technology Inc.

MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

EA7I011



CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

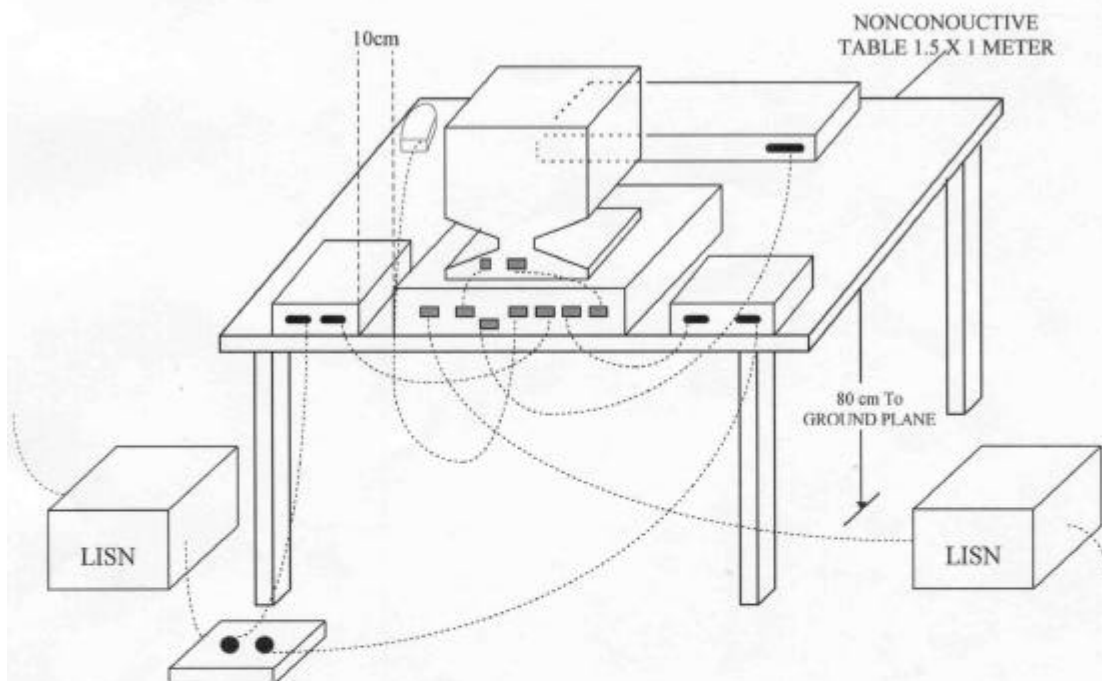
The following test Instruments was used during the conducted test :

Item	Instruments/ Facilities	Specification	Manufacturer	Model #	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30	2/26/98
2	LISN	50 Ω /50uH/100A 9KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121	2/28/98
3	LISN	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5	2/24/98
4	Signal Generator	9KHz ~ 2080MHz	ROHDE & SCHWARZ	SMY02	2/8/98
5	Power Supply Tester	10 ~ 650W	TEAPO	AMLOAD 00677	--

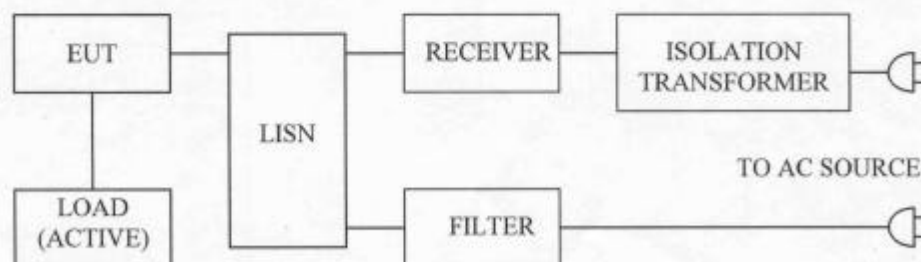
2 TEST PROCEDURE

- 2.1 The EUT was tested according to **EN55022 Class A**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 50 Ohm / 50 uHenry as specified by **EN55022 Class A**.
- 2.5 All the support peripherals are connect to the other LISN.
- 2.6 Cables and peripherals were moved to find the maximum emission levels for each frequency.

3.1 Typical : Setup Of Conducted Test



3.2 Block Diagram Of Conducted Test



4 CONFIGURATION OF THE EUT

4.1 The EUT was configured according to **EN55022 Class A**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below :

EUT				
Device	Manufacturer	Model No.	Power Cable	Data Cable
Industrial PC	Astech	AMB-618HT	Un-Shielded	Shielded
PERIPHERALS				
PC	N/A	N/A	N/A	N/A
MONITOR	ATEC	G450DU	Un-Shielded	Shielded
PRINTER	N/A	N/A	N/A	N/A
MODEM	DATATRONIC	2814CX	Un-Shielded	Shielded
MOUSE	LOGITECH	M-S34	N/A	Shielded
KEY BOARD	AST	SK-2000REW	N/A	Shielded
INTERNAL DEVICES				
REMARK				



5 OPERATING CONDITION OF EUT

- 5.1 Operating condition is according to **EN55022 Class A**.
- 5.2 CPU : Pentium II- 333 MHz
CPU Clock : 66 MHz
- 5.3 Turn on the power of all equipments.
- 5.4 Test program sent "H" pattern to peripherals as following :
 - 5.4.1 Monitor
 - 5.4.2 Modem
 - 5.4.3 Keyboard

6 LIMIT OF CONDUCTED POWER LINE EMISSION CLASS A :

Frequency Range	Quasi Peak	Average
0.15 ~ 0.5 MHz	79 dBuV	66 dBuV
0.5 ~ 5 MHz	73 dBuV	60 dBuV
5 ~ 30 MHz	73 dBuV	60 dBuV

7 RESULT OF CONDUCTED POWER LINE TEST (1)

7.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

7.2 IF bandwidth : 10 kHz, Meas Time : 1 sec.

7.3 Temperature : 26 °C, Humidity : 72 % RH.

7.4 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.150	57.90	57.60	79
0.370	41.33	40.69	79
1.900	36.94	36.80	73
5.130	29.80	29.08	73
10.915	35.93	34.56	73
24.11	21.35	23.25	73

7.5 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.167	44.47	44.33	66
0.436	37.60	37.17	66
1.900	35.88	35.89	60
4.580	25.59	25.45	60
10.915	34.05	32.12	60
23.330	15.96	19.27	60

REMARK :

1. Model : AMB-618HT
2. Measuring mode : Front K/B

8 PHOTO OF CONDUCTED POWER LINE TEST
Test Mode : Front K/B



Front View



Rear View

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9 RESULT OF CONDUCTED POWER LINE TEST (2)

9.1 The frequency range from 0.15 MHz to 30 MHz was investigated. All readings are quasi-peak values and average.

9.2 IF bandwidth : 10 kHz, Meas Time : 1 sec.

9.3 Temperature : 26 °C, Humidity : 72 % RH.

9.4 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.150	59.61	58.92	79
0.370	42.19	41.43	79
2.100	37.47	37.99	73
4.740	30.24	31.73	73
10980	36.47	35.69	73
21.900	21.95	44.44	73

9.5 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.150	41.60	41.14	66
0.371	35.20	34.95	66
2.100	32.63	33.04	60
4.700	29.04	27.06	60
10.915	34.02	33.99	60
22.810	17.03	39.77	60

REMARK :

1. Model : AMB-618HT
2. Measuring mode : Rear K/B

10 PHOTO OF CONDUCTED POWER LINE TEST

Test Mode : Rear K/B



Front View



Rear View

EA7I011

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RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

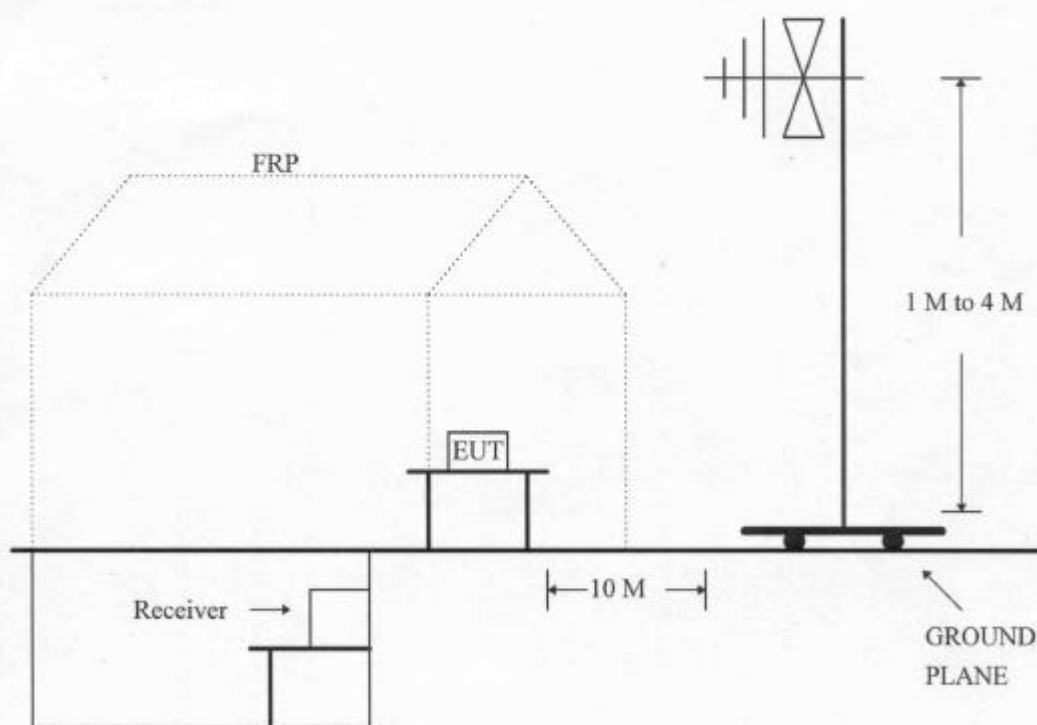
The following test Instruments was used during the radiated emission test :

Item	Instruments /facilities	Specification	Manufacturer	Model #	Date of Cal.
1	SPECTRUM ANALYZER	9KHz ~ 1.8GHz	HP	HP8591	4/8/98
2	EMI TEST RECEIVER	20MHz ~ 1GHz	ROHDE & SCHWARZ	ESVS10	2/19/98
3	AMPLIFIER	0.1MHz ~ 1.3 GHz	HP	8447D	5/19/98
4	SIGNAL GENERATOR	9KHz ~ 2080MHz	ROHDE & SCHWARZ	SMY02	2/8/98
5	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520	3/13/98
6	ANTENNA (DIPOLE)	30 ~ 300MHz	ROHDE & SCHWARZ	HZ-12	1/20/98
7	ANTENNA (DIPOLE)	300 ~ 1000MHz	ROHDE & SCHWARZ	HZ-13	1/20/98

2 TEST PROCEDURE

- 2.1 The EUT was test according to **EN55022 Class A**.
- 2.2 The radiated test was performed at HomeTek Lab's Open Site **II**.
- 2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 TEST SETUP





4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 EUT OPERATING CONDITION

5.1 Same as "Conducted Power Line test", section 5

5.2 The radiated emission in the frequency range from 30 MHz - 1000 MHz was test in a horizontal and vertical polarization at HomeTek Lab's open site II.

6 LIMIT OF RADIATED EMISSION CLASS A :

Frequency (MHz)	Measurement Distance	Limit (dBuV)
30 - 230	10 (M)	40
230 - 1000	10 (M)	47

7 RESULT OF RADIATED EMISSION TEST (1)

- 7.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.
- 7.2 The measurements were made at 10 meters of HomeTek Lab's open site II.
- 7.3 Temperature : 27 °C, Humidity : 72 % RH.
- 7.4 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission (dBuV)	Limit (dBuV)
233.87	18.70	12.36	1.32	32.38	47
300.70	13.19	13.64	1.50	28.33	47
338.29	18.15	14.79	1.52	34.46	47
394.63	19.13	15.88	1.65	36.66	47
467.75	20.61	16.63	1.98	39.22	47
534.56	13.17	18.62	2.03	33.82	47
601.39	14.94	20.39	2.31	37.64	47
668.21	10.53	20.49	2.41	33.43	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 668.21 MHz .
- Corrected Reading : (10.53) + (20.49) + (2.41) = 33.43 . (Emission Level)

7.5 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission (dBuV)	Limit (dBuV)
169.20	16.68	10.46	1.12	28.26	40
233.87	19.80	12.60	1.32	33.72	47
319.96	21.17	13.43	1.52	36.12	47
338.31	20.35	15.08	1.52	36.95	47
394.65	22.81	14.97	1.65	39.43	47
467.76	19.34	17.31	1.98	38.63	47
534.56	20.10	18.67	2.03	40.80	47
668.21	12.66	19.12	2.41	34.19	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 668.21 MHz .
- Corrected Reading : (12.66) + (19.12) + (2.41) = 34.19 . (Emission Level)

REMARK :

1. Model : AMB-618HT
2. Measuring mode : Front K/B



8 PHOTO OF RADIATED EMISSION TEST

Test Mode : Front K/B



Front View



Rear View

9 RESULT OF RADIATED EMISSION TEST (2)

- 9.1 The frequency range from 30 MHz to 1 GHz was investigated. All readings are quasi-peak values with resolution bandwidth of 120 kHz.
- 9.2 The measurements were made at 10 meters of HomeTek Lab's open site II.
- 9.3 Temperature : 27 °C, Humidity : 72 % RH.
- 9.4 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission (dBuV)	Limit (dBuV)
233.86	19.82	12.36	1.32	33.50	47
267.28	11.95	13.70	1.42	27.07	47
319.97	17.92	14.29	1.52	33.73	47
339.97	14.77	14.79	1.57	31.13	47
467.74	17.25	16.63	1.98	35.86	47
534.58	8.90	18.62	2.03	29.55	47
601.39	19.31	20.39	2.31	42.01	47
668.21	16.57	20.49	2.41	39.47	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 668.21 MHz .
- Corrected Reading : (16.57) + (20.49) + (2.41) = 39.47 . (Emission Level)



9.5 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading (dBuV)	ANT factor (dBuV)	Cable Loss (dBuV)	Emission (dBuV)	Limit (dBuV)
233.87	18.63	12.60	1.32	32.55	47
319.97	17.21	13.43	1.52	32.16	47
339.97	8.80	15.25	1.57	25.62	47
467.74	20.91	17.31	1.98	40.20	47
534.57	20.53	18.67	2.03	41.23	47
601.39	15.98	18.70	2.31	36.99	47
668.21	10.40	19.12	2.41	31.93	47
735.02	8.09	20.10	2.54	30.73	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 735.02 MHz .
- Corrected Reading : (8.09) + (20.10) + (2.54) = 30.73 . (Emission Level)

REMARK :

1. Model : AMB-618HT
2. Measuring mode : Rear K/B

10 PHOTO OF RADIATED EMISSION TEST

Test Mode : Rear K/B



Front View



Rear View

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

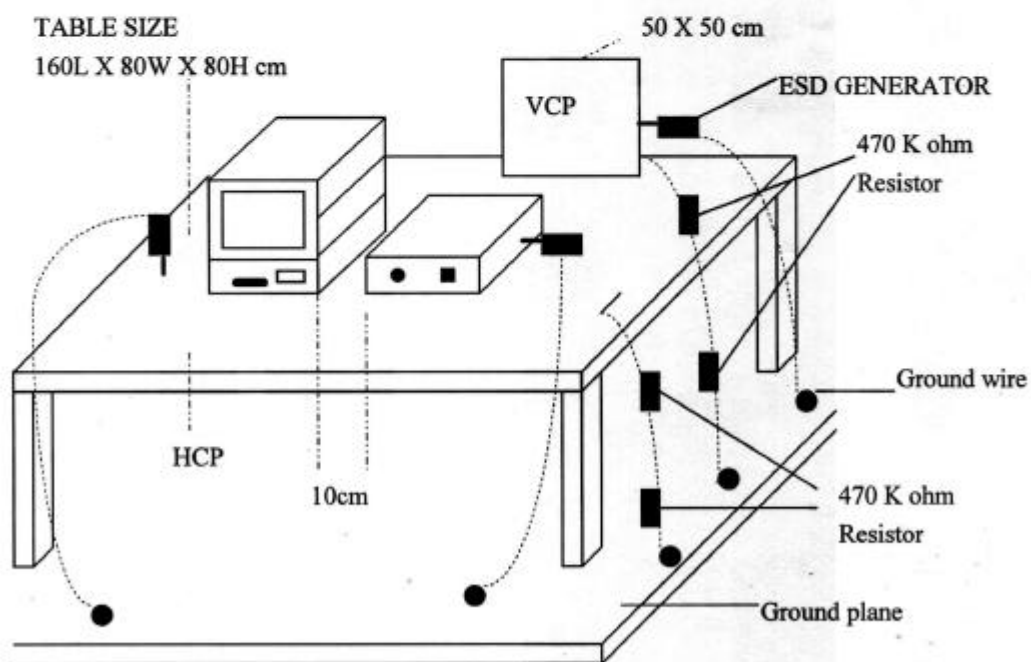
1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
ESD TESTER	HAEFELY	PESD 1600	MAR/98
VCP	HOMETEK	--	--

2 TEST PROCEDURE

According to IEC 801-2

3 TEST SETUP





4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 EUT OPERATION CONDITION

Same as "Conducted Power Line test", section 5

6 TEST CONDITION

6.1 Test Level :

(A) $\pm 8\text{KV}$ for air discharge.

(B) $\pm 4\text{KV}$ for contact discharge.

6.2 Number of test : 10 Discharge / Level

6.3 Time between test : 1 sec.

6.4 Temperature : 26 °C

Humidity : 58 % RH.

7 PERFORMANCE CRITERIA

- A. Normal performance within the specification.
- B. Temporary degradation or loss function or performance which is self-recoverable.
- C. Temporary degradation or loss function or performance which requires operator intervention system reset.
- D. Degradation or loss function which is not recoverable due to damage of EUT or software, or loss of data.



8 TEST RESULT

Test Point	Air Discharge	Contact Discharge	Performance Criteria	Result
VCP	--	$\pm 4KV$	B	PASS
HCP	--	$\pm 4KV$	B	PASS
CASE	$\pm 8KV$	$\pm 4KV$	B	PASS
LED	$\pm 8KV$	$\pm 4KV$	B	PASS
LCD	$\pm 8KV$	$\pm 4KV$	B	PASS
I/O PORTS	$\pm 8KV$	$\pm 4KV$	B	PASS
SCREWS	$\pm 8KV$	$\pm 4KV$	B	PASS
FDD BUTTON	$\pm 8KV$	$\pm 4KV$	B	PASS
COVER PLATE	$\pm 8KV$	$\pm 4KV$	B	PASS
AC SOCKET	$\pm 8KV$	$\pm 4KV$	B	PASS
Power Switch	$\pm 8KV$	$\pm 4KV$	B	PASS

9 PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

Test Mode : Front K/B





HomeTek Technology Inc.

RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST

(RS)

1 TEST INSTRUMENTS & FACILITIES

Instruments Facilities	Manufacturer	Model # Serial #	Data Of Cal.
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMY02	2/8/98
AMPLIFIER	AMPLIFIER RESEACH	100W1000M1A	3/17/98
FIELD SENSOR	AMPLIFIER RESEACH	FP2000	3/11/98
FIELD MONITOR	AMPLIFIER RESEACH	FM2000	3/11/98
ANTENNA (BI-LOG)	ARA	LPB2520	3/13/98
CONTROL PC	KB TECH	KB P586/133	--

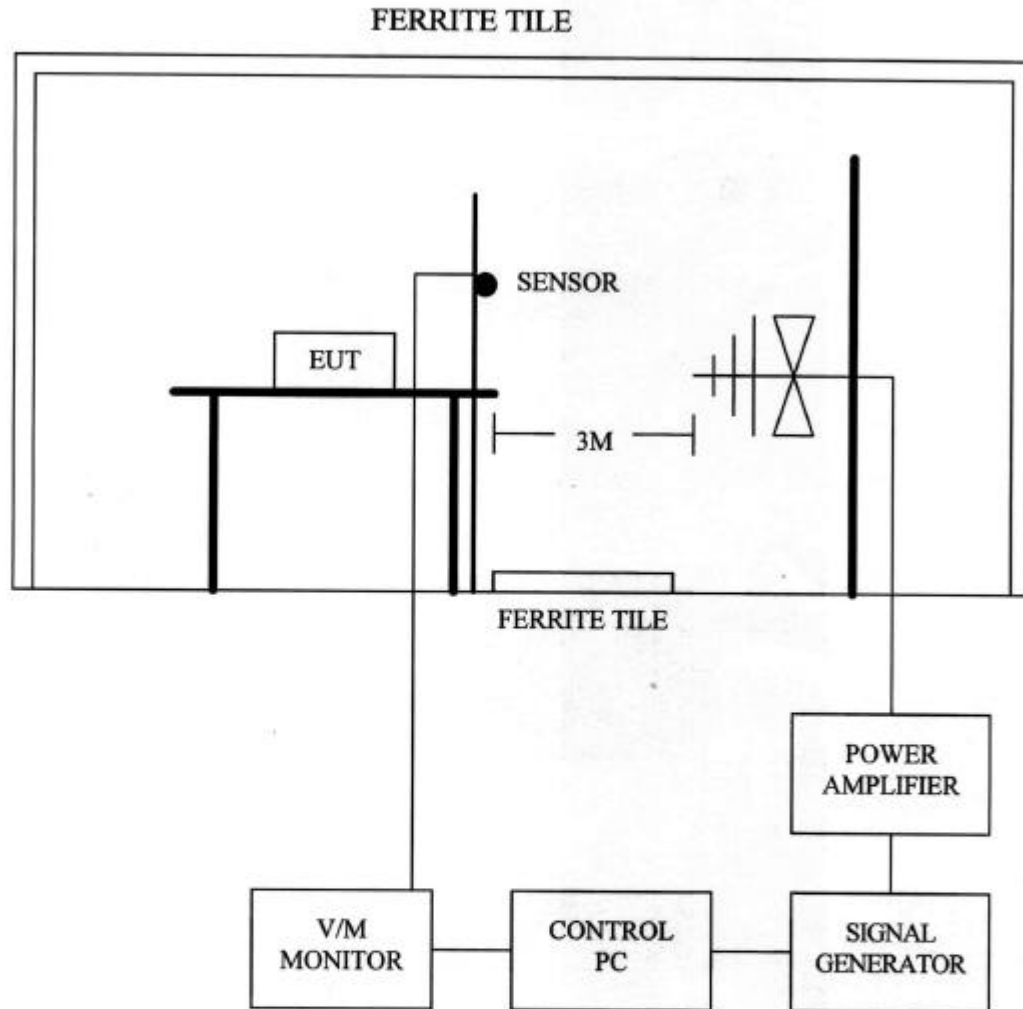
2 TEST PROCEDURE

According to IEC 801-3

EA7I011



3 TEST SETUP



3.1 Chamber Size :

8M x 4M x 3M



4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 OPERATION CONDITION OF EUT

Same as "Conducted Power Line test", section 5

6 TEST CONDITION

6.1 Frequency Range : 27 MHz ~ 500 MHz

6.2 Filed Strength : 3 V / M

6.3 Frequency Step : 1 %

6.4 Antenna Polarity : HORIZONTAL & VERTICAL

6.5 The four sides of EUT are tested
(FRONT, REAR, RIGHT, LEFT)

6.6 Temperature : 26 °C

Humidity : 72 % RH

7 PERFORMANCE CRITERIA

- A. Normal performance within the specification.
- B. Temporary degradation or loss function or performance which is self-recoverable.
- C. Temporary degradation or loss function or performance which requires operator intervention system reset.
- D. Degradation or loss function which is not recoverable due to damage of EUT or software, or loss of data.

8 TEST RESULT

ANT SIDE	HORIZONTAL	VERTICAL	RESULT
FRONT	A	A	PASS
REAR	A	A	PASS
RIGHT	A	A	PASS
LEFT	A	A	PASS

9 PHOTO OF RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

Test Mode : Front K/B



Front View



Rear View

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

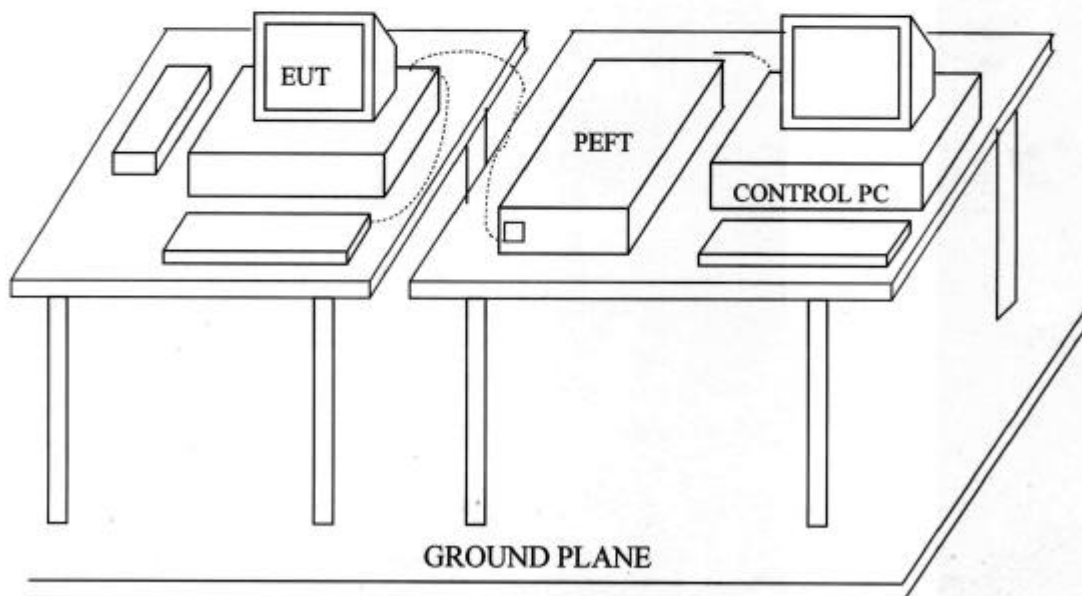
1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
BURST-TESTER	HAEFELY	PEFT/JUNIOR	MAR/98
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According to IEC 801-4

3 TEST SETUP





4 CONFIGURATION OF THE EUT

Same as "Conducted Power Line test", section 4

5 OPERATION CONDITION OF EUT

Same as "Conducted Power Line test", section 5

6 TEST CONDITION

6.1 Pulse Rise time & Duration : 5nS / 50nS

6.2 Pulse Repetition : 5 kHz

6.3 Polarity : POSITIVE / NEGATIVE

6.4 Test Voltage : $\pm 0.5\text{KV}$, $\pm 1\text{KV}$

6.5 Coupling of power line :

L, N, PE, L+N, L+PE, N+PE, L+N+PE

6.6 Temperature : 26°C

Humidity : 72% RH

7 PERFORMANCE CRITERIA

- A. Normal performance within the specification.
- B. Temporary degradation or loss function or performance which is self-recoverable.
- C. Temporary degradation or loss function or performance which requires operator intervention system reset.
- D. Degradation or loss function which is not recoverable due to damage of EUT or software, or loss of data.

8 TEST RESULT

TEST VOLTAGE	L	N	PE	L+N	L+PE	N+PE	L+N+PE
$\pm 0.5KV$	B	B	B	B	B	B	B
$\pm 1KV$	B	B	B	B	B	B	B

8.1 Test Mode : Front K/B

8.2 Final Result : PASS

8.3 Remark :

9 PHOTO OF ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

Test Mode : Front K/B



PHOTOS OF EUT



Front View



Rear View

EA7I011

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