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CERTIFICATE OF COMPLIANCE

EUT : Industrial Panel PCs with Flat-panel Display
 MODEL NO. : AMB-562HT, AMB-562T
 Final Test Date : 3/12/99 REPORT #: EA8C007
 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 :

- | | |
|--|--|
| <input checked="" type="checkbox"/> EN50081-1 (1992) | <input checked="" type="checkbox"/> EN50082-1 (1992) |
| <input type="checkbox"/> EN50081-2 (1992) | <input type="checkbox"/> EN50082-2 (1992) |
| <input type="checkbox"/> EN55011 (1994) | <input checked="" type="checkbox"/> IEC 801-2 (1984) |
| <input checked="" type="checkbox"/> EN55022 (1994) | <input checked="" type="checkbox"/> IEC 801-3 (1984) |
| <input type="checkbox"/> EN60555-2 (1987) | <input checked="" type="checkbox"/> IEC 801-4 (1988) |
| <input type="checkbox"/> 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.

THIS TEST RESULTS OF THIS REPORT APPLIES TO ABOVE TESTED SAMPLE ONLY.

THIS TEST REPORT SHALL NOT BE REPRODUCE IN PART WITHOUT WRITTEN APPROVAL OF HOMETEK TECHNOLOGY INC.

PREPARED BY : Angel DATE : 3/16/99
ANGEL CHEN

CHECK BY : Joe DATE : 3/16/99
JOSEPH CHOU

APPROVED BY : Grant + Jany DATE : 3/16/99
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 Panel PCs with Flat-panel Display

Model No. : AMB-562HT, AMB-562T

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

- | | |
|--|--|
| <input checked="" type="checkbox"/> EN50081-1 (1992) | <input checked="" type="checkbox"/> EN50082-1 (1992) |
| <input type="checkbox"/> EN50081-2 (1992) | <input type="checkbox"/> EN50082-2 (1992) |
| <input type="checkbox"/> EN55011 (1994) | <input checked="" type="checkbox"/> IEC 801-2 (1984) |
| <input checked="" type="checkbox"/> EN55022 (1994) | <input checked="" type="checkbox"/> IEC 801-3 (1984) |
| <input type="checkbox"/> EN60555-2 (1987) | <input checked="" type="checkbox"/> IEC 801-4 (1988) |
| <input type="checkbox"/> EN60555-3 (1987) | <input type="checkbox"/> IEC 1000-4-5 |
| | <input type="checkbox"/> IEC 1000-4-6 |
| | <input type="checkbox"/> IEC 1000-4-8 |
| | <input type="checkbox"/> IEC 1000-4-11 |

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____



Title: _____

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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 MANUFACTURER : ASTECH TECHNOLOGY CO., LTD.
- 4 ADDRESS : 6F-4, No. 351, Chung-Shan Rd.,
Sec. 2, Chung-Ho City, Taipei,
Taiwan, R. O. C.
- 5 DESCRIPTION OF EUT :
- EUT : Industrial Panel PCs with Flat-panel Display
- Model : AMB-562HT, AMB-562T
- Serial # : N/A
- Data Cable : SHIELDED
- Power Cord : UN-SHIELDED
- Power Supply Type : SWITCHING

6 FEATURES OF EUT :

- 6.1 Heavy-duty steel chassis and NEMA 4/12 plastic front panel
- 6.2 12.1" color TFT or Hi-brightness color TFT LCD display
- 6.3 One disk drive housing : a 3.5" HDD driver
- 6.4 One 30 CFM cooling fan
- 6.5 Brightness controller, power supply, external keyboard connector, FDD slot placed behind a click-on door on the front panel
- 6.6 Hold-down clamp keeping add-on cards from vibration
- 6.7 Panel mount
- 6.8 Universal 70W switching power supply or other options (refer to the selection table)

MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST INSTRUMENTS & FACILITIES

The following test Instruments was used during the conducted test :

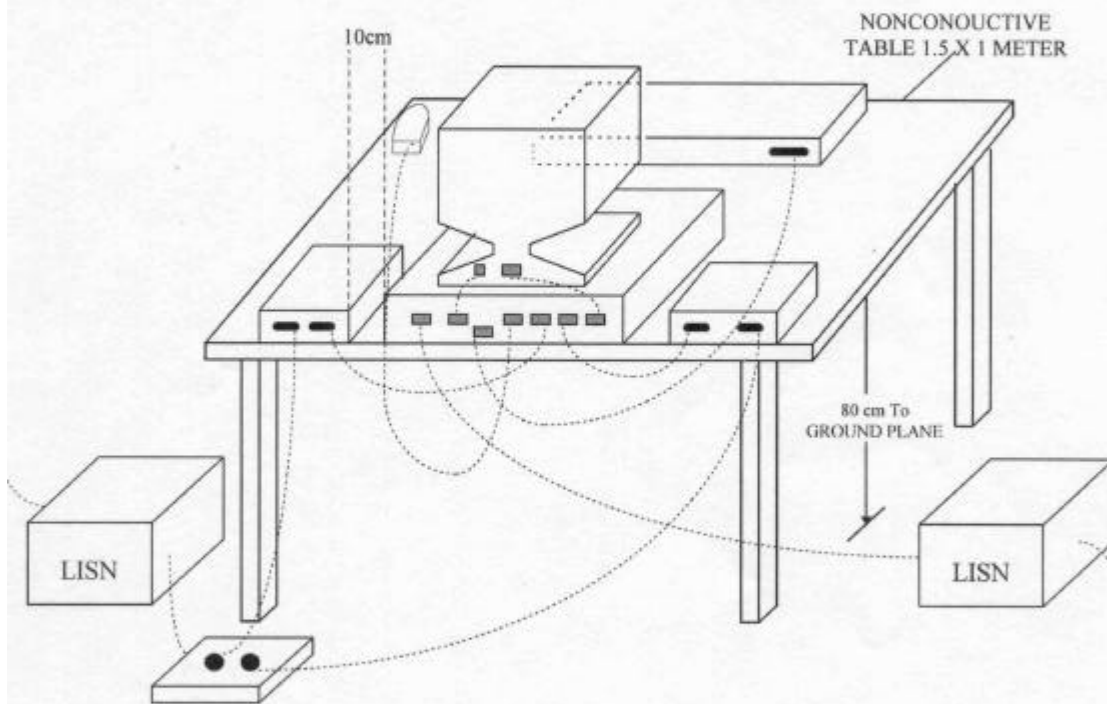
Item	Instruments/ Facilities	Specification	Manufacturer	Model #	Date Of Cal.
1	EMI Receiver	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESHS 30	FEB/99
2	LISN	50 Ω /50uH/100A 9KHz ~ 30MHz	SCHWARZ BECK	NNLK 8121	FEB/99
3	LISN	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3-Z5	FEB/99
4	ESXS-K1	Version 2.03b	ROHDE & SCHWARZ	1082.9678.02 840.913/246	FEB/99
5	Cables	10KHz ~ 30MHz		NO : 10	JUL/98
6	Pulse Limiter	9KHz ~ 30MHz	ROHDE & SCHWARZ	ESH3Z2 357.8810.52	JUL/98

2 TEST PROCEDURE

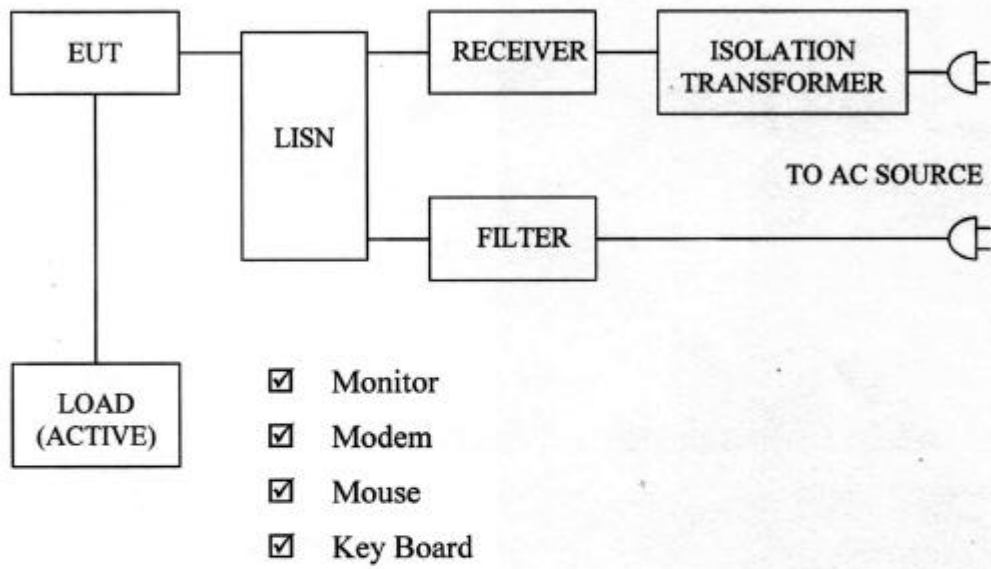
- 2.1 The EUT was tested according to **EN55022 Class A**.
- 2.2 The EUT was placed 0.4 meter from the conducting wall of shielding room and kept at least 0.8 meter from any other grounded conducting surface.
- 2.3 The frequency range form 0.15 MHz to 30 MHz was investigated.
- 2.4 The LISN used was 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 TEST SETUP

3.1 Typical : Setup Of Conducted Test



3.2 Block Diagram Of Conducted Test



4 CONFIGURATION OF THE EUT

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 (including internal device) :

4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production
 Condition when received : Good Damage : _____
 Connector Type : Metal Type Plastic Type
 Device : Industrial Panel PCs with Flat-panel Display
 Manufacturer : ASTECH
 Model Number : AMB-562HT, AMB-562T
 Serial Number : N/A
 FCC ID : N/A
 Data Cable : Shielded
 Power Cord : Un-Shielded, 1.8 m

4.2 PERIPHERALS

Monitor

Manufacturer : ATEC
 Model Number : G450DU
 Serial Number : 714PD000Q0002
 FCC ID : GKR450
 Data Cable : Shielded, 1.5 m, Connected to the VGA port
 Power Cord : Un-Shielded, 1.8 m



Modem

Manufacturer : DATATRONIC
Model Number : 2814CX
Serial Number : 1150541132
FCC ID : FCC DoC
Data Cable : Shielded, 1.5 m, Connected to the COM port
Power Cord & Adaptor : Un-Shielded, 1.8 m

Mouse (PSII)

Manufacturer : HP
Model Number : M-S34
Serial Number : LZA72270727
FCC ID : DZL211029
Data Cable : Shielded, 1.8 m, Connected to the PSII port
Power Cord : N/A

KeyBoard (PSII)

Manufacturer : AST
Model Number : SK-2000REW
Serial Number : C9612097279
FCC ID : GYUR34SK
Data Cable : Shielded, 1.5 m, Connected to the PSII port
Power Cord : N/A



KeyBoard (PSII)

Manufacturer : AST
Model Number : SK-2000REW
Serial Number : N/A
FCC ID : GYUR26SK
Data Cable : Shielded, 1.5 m, Connected to the PSII port
Power Cord : N/A

4.3 Internal Devices

Display Card

Manufacturer : ASTECH
Model Number : MBC-265B
Serial Number : N/A
FCC ID : N/A
Data Cable : Shielded
Power Cord : N/A

CPU Card

Manufacturer : ASTECH
Model Number : JUKI-740E
Serial Number : N/A
FCC ID : N/A
Data Cable : Shielded
Power Cord : N/A

4.4 REMARK :

5 OPERATING CONDITION OF EUT

5.1 Operating condition is according to **EN55022 Class A**.

5.2 CPU : Pentium MMX- 233 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

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 : 9 kHz, Meas Time : 1 sec.

7.3 Temperature : 21 °C, Humidity : 72 % RH.

7.4 Deviations from the specifications : None

7.5 Quasi-Peak :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.251	51.15	52.26	79.00
0.376	50.08	48.65	79.00
0.815	37.54	35.74	73.00
3.650	40.35	36.79	73.00
11.540	31.90	34.29	73.00
27.750	42.58	43.09	73.00

7.6 Average :

Frequency (MHz)	Line 1 (dBuV)	Line 2 (dBuV)	Limit (dBuV)
0.252	48.60	49.66	66.00
0.374	45.40	44.47	66.00
0.815	31.75	29.69	60.00
3.650	38.19	34.75	60.00
9.500	27.59	29.96	60.00
27.750	40.07	39.97	60.00

REMARK :

1. Model : AMB-562HT
2. Measuring mode :
3. Uncertainty in conduction emission measured : $< \pm 2.0\text{dB}$.
4. “ * ”, means this data is worse case emission level.
5. Result : **PASSED**

8 PHOTO OF CONDUCTED POWER LINE TEST
Model : AMB-562HT



Front View



Rear View

RADIATED EMISSION TEST

1 TEST INSTRUMENTS & FACILITIES

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

Item	Instruments /facilities	Specification	Manufacturer	Model # / S/N#	Location	Date of Cal.
1	OPEN AREA TEST SITE	<input type="checkbox"/> OATS 1 <input checked="" type="checkbox"/> OATS 2				JUN/98 JUN/98
2	SPECTRUM ANALYZER	9KHz ~ 1.8GHz	HP	HP8591 3710A06158	Open Site I	APR/98
3	EMI TEST RECEIVER	20MHz ~ 1GHz	ROHDE & SCHWARZ	ESVS10 845165/017	Open Site I	FEB/99
4	PRE-AMPLIFIER	0.1MHz ~ 1.3 GHz	HP	8447D 1937A02095	Open Site I	MAY/98
5	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	Open Site II	FEB/99
6	PRE-AMPLIFIER	20MHz ~ 7GHz	ROHDE & SCHWARZ	ESMI-Z7 846363/001	Open Site II	FEB/99
7	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520 S/N:1096	Open Site II	MAR/99
8	ANTENNA (BI-LOG)	25MHz ~ 2GHz	ARA	LPB2520 S/N:1095	Open Site I	MAR/99
9	CABLES	30MHz ~ 1GHz		No. 2, No. 4 No. 1, No. 3	OATS 1 OATS 2	JUL/98 JUL/98
10	ANTENNA (DIPOLE)	30 ~ 300MHz	ROHDE & SCHWARZ	HZ-12 842899/08		JAN/99
11	ANTENNA (DIPOLE)	300 ~ 1000MHz	ROHDE & SCHWARZ	HZ-13 842007/0004		JAN/99
12	EMIVM	30 ~ 1000MHz	AUDIX	A582445 A582443	OATS 1 OATS 2	N/A

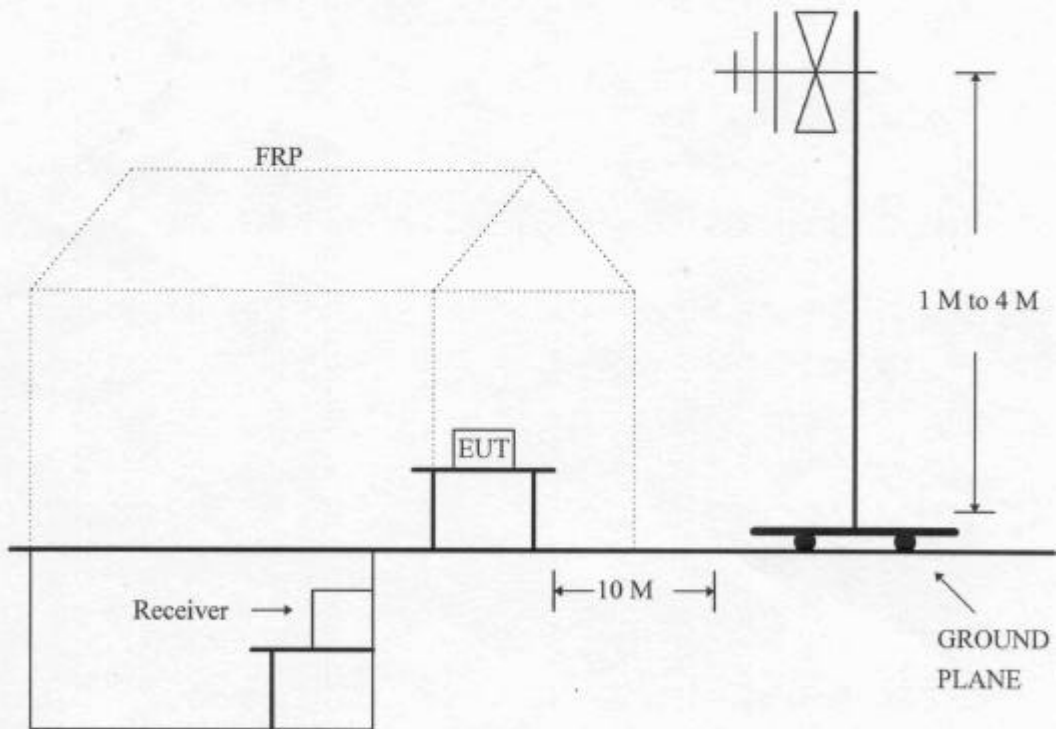
Note : 1. Items 1 ~ 9 upon which need to calibrated are with period of 1 year, except item 10-11.

2. Items 5 is used for the final measurement.

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/m)
30 - 230	10 (M)	40
230 - 1000	10 (M)	47

7 RESULT OF RADIATED EMISSION TEST

- 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 above 1 GHz with a resolution bandwidth of 1 MHz are peak reading at 10 meters.
- 7.3 The measurements were made at 10 meters of HomeTek Lab's open site II.
- 7.4 Temperature : 21 °C, Humidity : 72 % RH.
- 7.5 Radiated Emission data : **Horizontal**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
46.36	17.79	11.21	0.66	29.66	40
58.88	20.13	9.62	0.71	30.46	40
136.02	16.78	9.89	1.02	27.69	40
189.65	20.90	10.51	1.17	32.58	40
196.73	24.63	10.48	1.14	36.25	40
232.34	21.50	12.39	1.24	35.13	47
322.02	21.62	14.29	1.52	37.43	47
730.24	7.97	20.84	2.54	31.35	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 730.24 MHz .
- Corrected Reading : (7.97) + (20.84) + (2.54) = 31.35 . (Emission Level)

7.6 Radiated Emission data : **Vertical**

Frequency (MHz)	Reading Level (dBuV)	ANT factor (dB/m)	Cable Loss (dB)	Emission Level (dBuV/m)	Limit (dBuV/m)
45.66	12.97	13.21	0.63	26.81	40
130.20	19.75	12.00	0.96	32.71	40
145.69	19.72	9.16	1.02	29.90	40
206.94	15.27	10.47	1.19	26.93	40
268.23	23.00	13.42	1.41	37.83	47
339.76	21.45	15.25	1.57	38.27	47
428.93	19.95	16.33	1.80	38.08	47
630.66	6.06	19.31	2.21	27.58	47

- Emission Level = Reading Level + ANT Factor + Cable Loss.
- Sample Calculation for 630.66 MHz .
- Corrected Reading : (6.06) + (19.31) + (2.21) = 27.58 . (Emission Level)

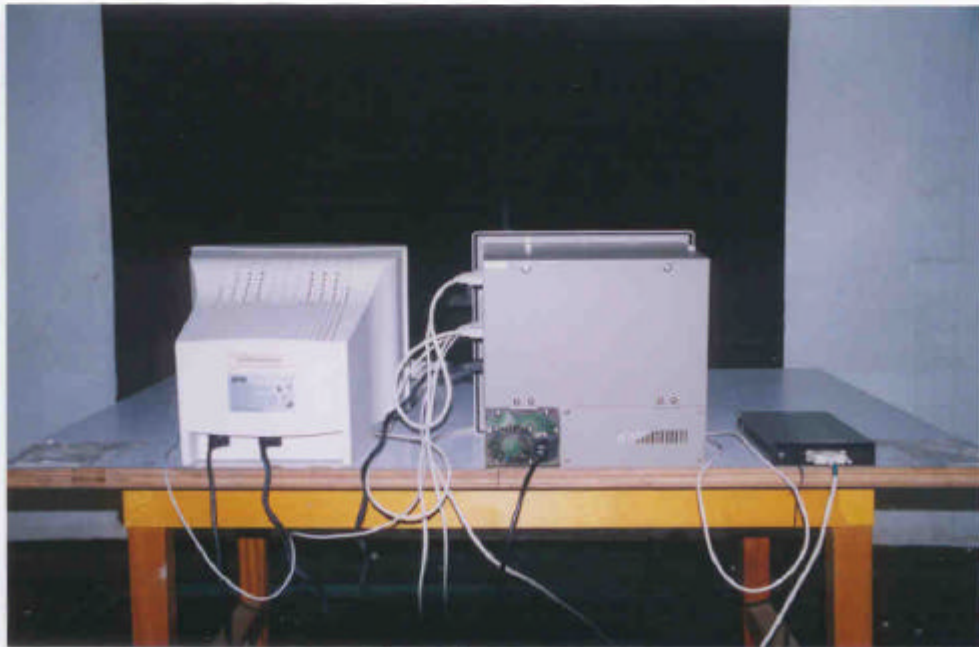
REMARK :

1. Model : AMB-562HT
2. Measuring mode :
3. Uncertainty in radiated emission measured : <math>< \pm 4.0\text{dB}</math>.
4. “ * ”, means this data is worse case emission level.
5. Result : **PASSED**

8 PHOTO OF RADIATED EMISSION TEST
Model : AMB-562HT



Front View



Rear View

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

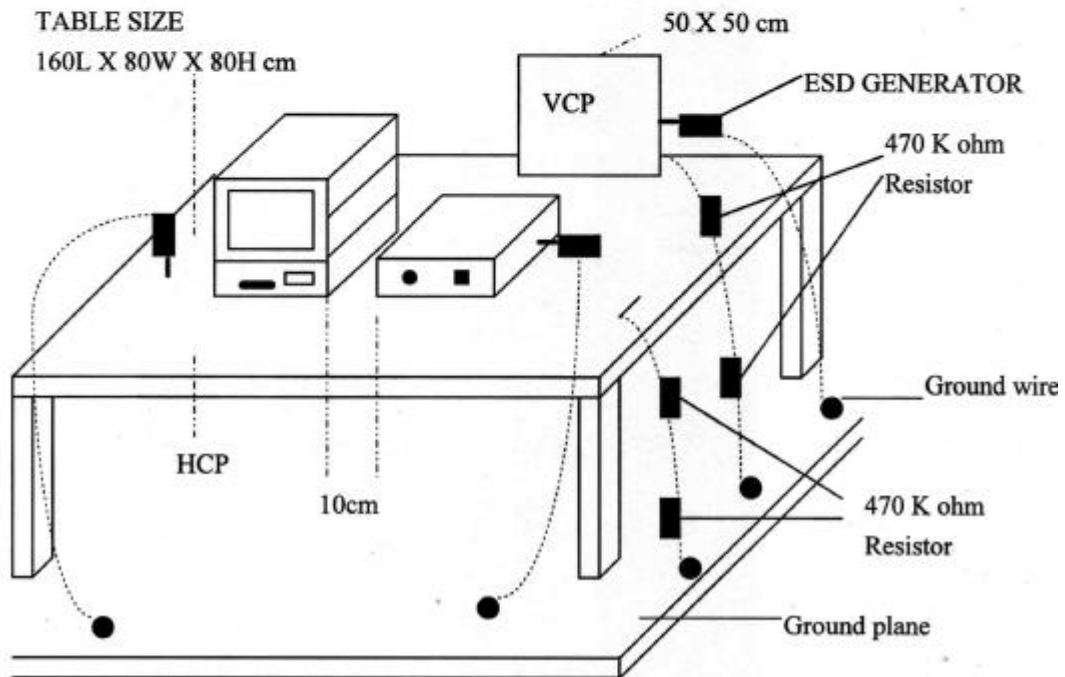
1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
ESD TESTER	HAEFELY	PESD 1600	MAR/99
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 8KV for air discharge.

(B) \pm 4KV for contact discharge.

6.2 Number of test : 10 Discharge / Level

6.3 Time between test : 1 sec.

6.4 Temperature : 21 °C

6.5 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	--	± 4KV	B	PASSED
HCP	--	± 4KV	B	PASSED
CASE	± 8KV	± 4KV	B	PASSED
LCD	± 8KV	± 4KV	B	PASSED
I/O PORTS	± 8KV	± 4KV	B	PASSED
SCREWS	± 8KV	± 4KV	B	PASSED
AC SOCKET	± 8KV	± 4KV	B	PASSED
Power Switch	± 8KV	± 4KV	B	PASSED

9 PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)
Model : AMB-562HT



RADIO FREQUENCY ELECTROMAGNETIC FIELD IMMUNITY TEST

(RS)

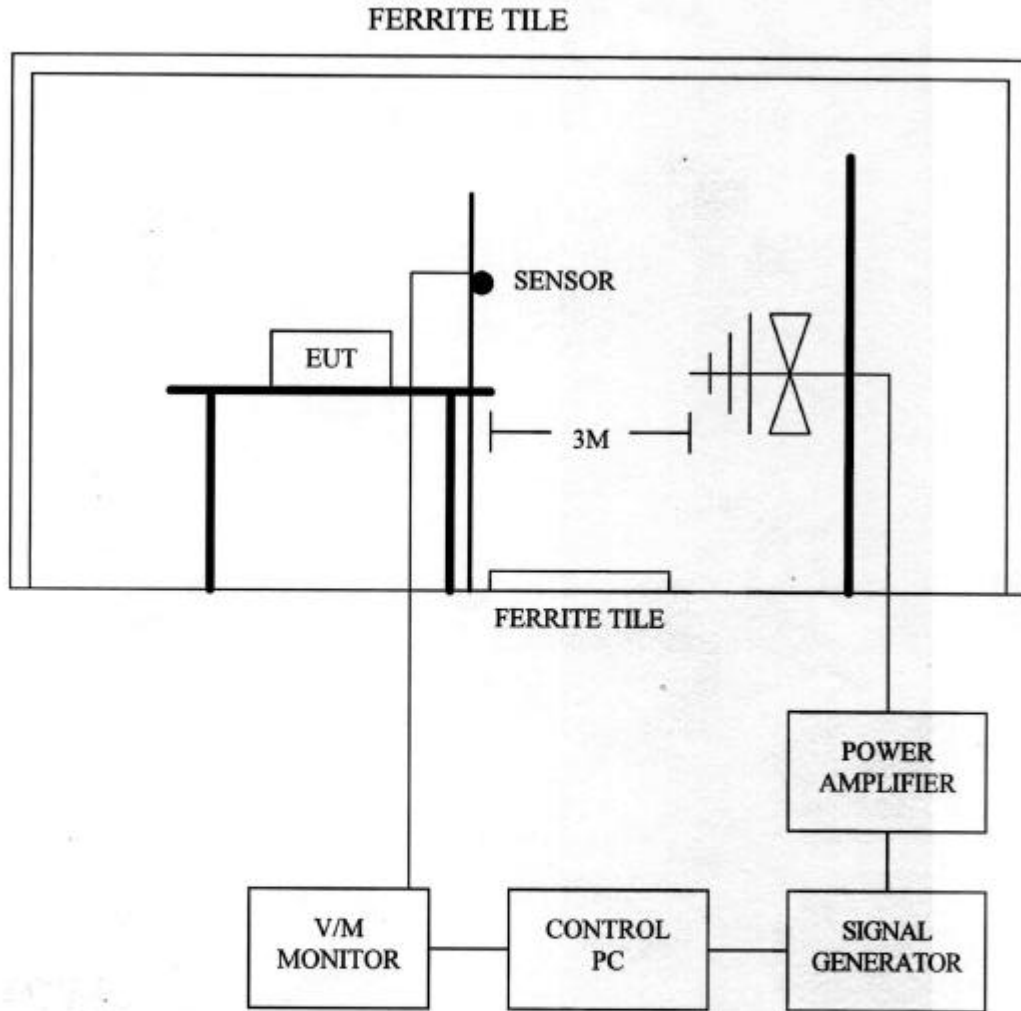
1 TEST INSTRUMENTS & FACILITIES

Instruments Facilities	Manufacturer	Model # Serial #	Data Of Cal.
SIGNAL GENERATOR	ROHDE & SCHWARZ	SMY02	FEB/99
AMPLIFIER	AMPLIFIER RESEACH	100W1000M1A	MAR/99
FIELD SENSOR	AMPLIFIER RESEACH	FP2000	MAR/99
FIELD MONITOR	AMPLIFIER RESEACH	FM2000	MAR/99
ANTENNA (BI-LOG)	ARA	LPB2520	MAR/99
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According to **IEC 801-3**

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 Field 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 : 21 °C

6.7 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

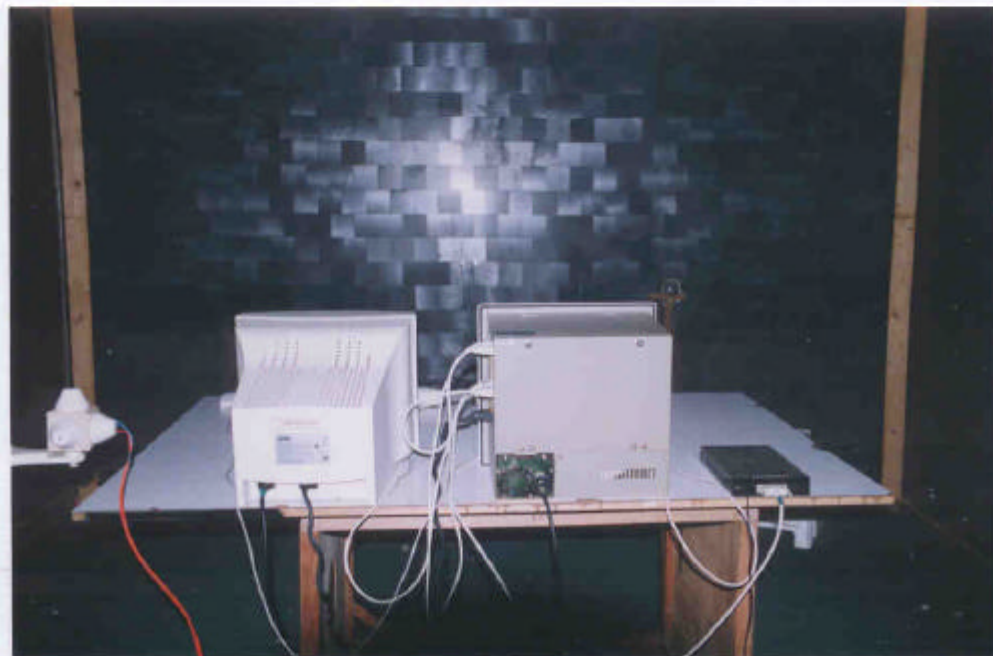
ANT SIDE	HORIZONTAL	VERTICAL	RESULT
FRONT	A	A	PASSED
REAR	A	A	PASSED
RIGHT	A	A	PASSED
LEFT	A	A	PASSED

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

Model : AMB-562HT



Front View



Rear View

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

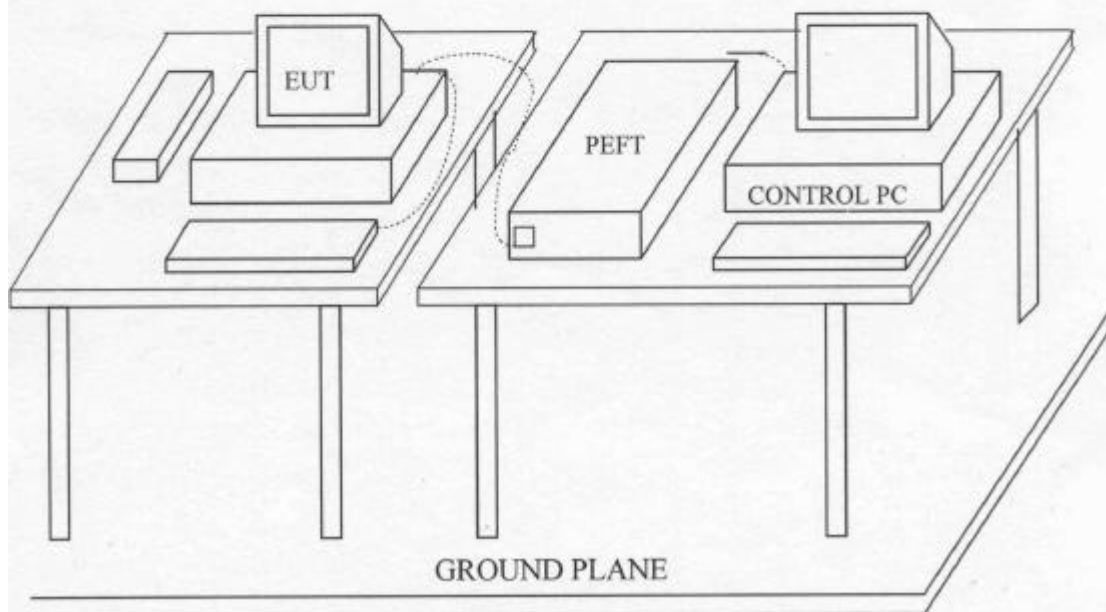
1 TEST INSTRUMENTS & FACILITIES

Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
BURST-TESTER	HAEFELY	PEFT/JUNIOR	MAR/99
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 : 5 nS / 50 nS

6.2 Pulse Repetition : 5 kHz

6.3 Polarity : POSITIVE / NEGATIVE

6.4 Test Voltage : $\pm 0.5KV$, $\pm 1KV$

6.5 Coupling of power line :
L, N, PE, L+N, L+PE, N+PE, L+N+PE

6.6 Temperature : 21 °C

6.7 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
± 0.5KV	B	B	B	B	B	B	B
± 1KV	B	B	B	B	B	B	B

8.1 Model : AMB-562HT

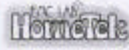
8.2 Final Result : PASSED

8.3 Remark :

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

Model : AMB-562HT





HomeTek Technology Inc.

PHOTOS OF EUT

Model : AMB-562HT



EUT Front View



EUT Rear View