HomeTek Technology Inc.

ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien, Taiwan
PHONE : 886-2-22608375 FAX : 886-2-22748013
E - mail : hometek@ms15.hinet.net

CE TEST REPORT
FOR

APPLICANT	:	Smart Home Engineering Corp.
ADDRESS	:	10F., No. 493, Chung-Cheng Rd.,
		Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
Receipt Date	:	06/15/2006 Final Test Date: 06/26/2006
EUT	:	CAT5 AV Multimedia Transmission
MODEL NO.	:	CE02XXX

MEASUREMENT PROCEDURE USED

EN55022 CLASS B / EN61000-3-2 / EN61000-3-3 / EN55024 GIVEN IN
EUROPEAN COUNCIL DIRECTIVE 2004/108/EC

This test result of this report applies to above tested sample only.
This test report shall not be reproducing in part without written approval of HomeTek Technology Inc.

PREPARED BY :

HomeTek Technology Inc.

No. 67-9, Shir Men Road, Tu Cheng City,

Taipei Hsien. Taiwan

Report # : EB6K029

HomeTek Technology Inc.

ADDRESS: No. 67-9, Shir Men Road, Tu Cheng City,
Taipei Hsien
PHONE : 886-2-22608375 FAX : 886-2-22748013
E - mail : hometek@ms15.hinet.net

CERTIFICATE OF COMPLIANCE

EUT	:	CAT5 AV Multimedia Transmission
MODEL NO.	:	CE01XXX
Receipt Date	:	06/15/2006 Final Test Date: 06/26/2006
REPORT #	:	EB6K028
APPLICANT	:	Smart Home Engineering Corp.
ADDRESS	:	10F., No. 493, Chung-Cheng Rd., Hsin-Tien City, Taipei 231, Taiwan, R. O. C.

Measurement procedure used:

EMI: EN 55022 Class B (1998) + A1 (2000) + A2 (2003),
EN 61000-3-2 (2000), EN 61000-3-3 (1995) + A1 (2001)
EMS: EN 55024 (1998) + A1 (2001) + A2 (2003):
IEC 61000-4-2 (2001), IEC 61000-4-3 (2002), IEC 61000-4-4 (2004), IEC 61000-4-5 (2001),
IEC 61000-4-6 (2003) + A1 (2004), IEC 61000-4-8 (2001), IEC 61000-4-11 (2004)

We hereby show that:

The measurements shown in this test report were made in accordance with the procedures given in **EUROPEAN COUNCIL DIRECTIVE 2004/108/EC**, and the energy emitted by the equipment was found to be within the limits applicable. This product, which has been issued the test report listed as above in HomeTek Technology Inc., is based on single evaluation of one sample and confirmed to comply with the requirements of the above-mentioned EMC standard.

This test report is a duplicate of original one (report No. EB5F012, issued on 2006, 06, 29), applicant and model No. is modified.

APPROVED BY : 11/22/2007

ALAIN LIN / Assistant Manage

DESCRIPTION OF UPGRADE OF TEST STANDARDS

Applicant: Smart Home Engineering Corp.

Product Name: CAT5 AV Multimedia Transmission

Model Number: CE01XXX

The test standard of this report (No. EB6K028) is updated from original one (No. EB5F012) with the procedures given in **EUROPEAN COUNCIL DIRECTIVE 2004/108/EC: EN 55022 Class B (1998) + A1 (2000) + A2 (2003) / EN 61000-3-2 (2000) / EN 61000-3-3 (1995) + A1 (2001) / EN 55024 (1998) + A1 (2001) + A2 (2003): IEC 61000-4-2 (2001), IEC 61000-4-3 (2002), IEC 61000-4-4 (2004), IEC 61000-4-5 (2001), IEC 61000-4-6 (2003) + A1 (2004), IEC 61000-4-8 (2001), IEC 61000-4-11 (2004)**. According to EUT's specification and operation manual, the test procedures of new version of standards are applied to EUT. Thus, we HomeTek issue a new certificate with new version of test standard.

HomeTek Inc.
November, 23, 2007

ALAIN LIN / Assistant Manager

TEST REPORT CERTIFICATION

EMC of electrical appliances

Report reference No.	:	EB6K028
Date of issue	:	NOV., 23, 2007
Applicant	:	Smart Home Engineering Corp.
Address	:	10F., No. 493, Chung-Cheng Rd., Hsin-Tien City, Taipei 231, Taiwan, R. O. C.
Manufacturer	:	Smart Home Engineering Corp.
Type of test object	:	CAT5 AV Multimedia Transmission
Model/type reference	:	CE01XXX
Rated Voltage	:	N/A
EUT Voltage	:	N/A
Test Result	:	Complied
Testing laboratory	:	HomeTek Technology Inc.
Address	:	No. 67-9, Shir Men Road, Tu Cheng City, Taipei Hsien, Taiwan, R. O. C.
TEL / FAX	:	+886-2-22608375 / +886-2-22748013
E-mail	:	hometek@ms15.hinet.net
Standard	:	*EN 55022 Class B (1998) + A1 (2000) + A2 (2003),* *EN 61000-3-2 (2000), EN 61000-3-3 (1995) + A1 (2001),* *EN 55024 (1998) + A1 (2001) + A2 (2003):* *IEC 61000-4-2 (2001), IEC 61000-4-3 (2002),* *IEC 61000-4-4 (2004), IEC 61000-4-5 (2001),* *IEC 61000-4-6 (2003) + A1 (2004), IEC 61000-4-8 (2001),* *IEC 61000-4-11 (2004)*

Tested by (+ signature) : *Jason Lin / Engineer* Jason Lin

Approved by (+ signature) : *Alain Lin / Assistant Manager*

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PHOTOS OF TEST CONFIGURATION

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PHOTOS OF EUT

GENERAL INFORMATION

1 APPLICANT : Smart Home Engineering Corp.

2 ADDRESS : 10F., No. 493, Chung-Cheng Rd.,
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.

3 MANUFACTURER : Smart Home Engineering Corp.

4 ADDRESS : 10F., No. 493, Chung-Cheng Rd.,
Hsin-Tien City, Taipei 231, Taiwan, R. O. C.

5 DESCRIPTION OF EUT :

EUT : CAT5 AV Multimedia Transmission

Model : CE01XXX

Serial # : N/A

5.1 The difference between series of models CE01XXX are as shown below:

(1) The first “X” represents different system input.
(2) The second “X” represent different accessory.
(3) The third “X” represent different color.

The PCB layout is similar. The worst case of EMC test data were shown in this test report.

6 FEATURES OF EUT :

Please refer to user manual or product specification.

MODIFICATION LIST

THE FOLLOWING ACCESSORIES WERE ADDED TO THE EUT DURING TESTING :

NO MODIFICATION BY HOMETEK TECHNOLOGY INC.

CONDUCTED POWER LINE TEST

1 TEST PROCEDURE

According to **EN55022 Class B**.

2 RESULT OF CONDUCTED EMISSION TEST

N/A (Conducted Power Line Test is not applicable to this EUT (Model : CE01A)).

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#	Date of Cal.
1	OPEN AREA TEST SITE	☑ OATS 3			JUL/2005
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	FEB/2006
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	OCT/2005
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2614	JUN/2006
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N (M-F) 001	JUL/2005
6	Ferrite Clamp	30 ~ 1000MHz	ADT	FC18 910030	DEC/2005
7	Ferrite Clamp	30 ~ 1000MHz	HomeTek	HFC 001	DEC/2005
8	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2005
9	Cable	14m	BELDEN	9913 OS3-001	DEC/2005
10	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

Note : Items 1 ~ 9 were calibrated within period of 1 year.

2 TEST PROCEDURE

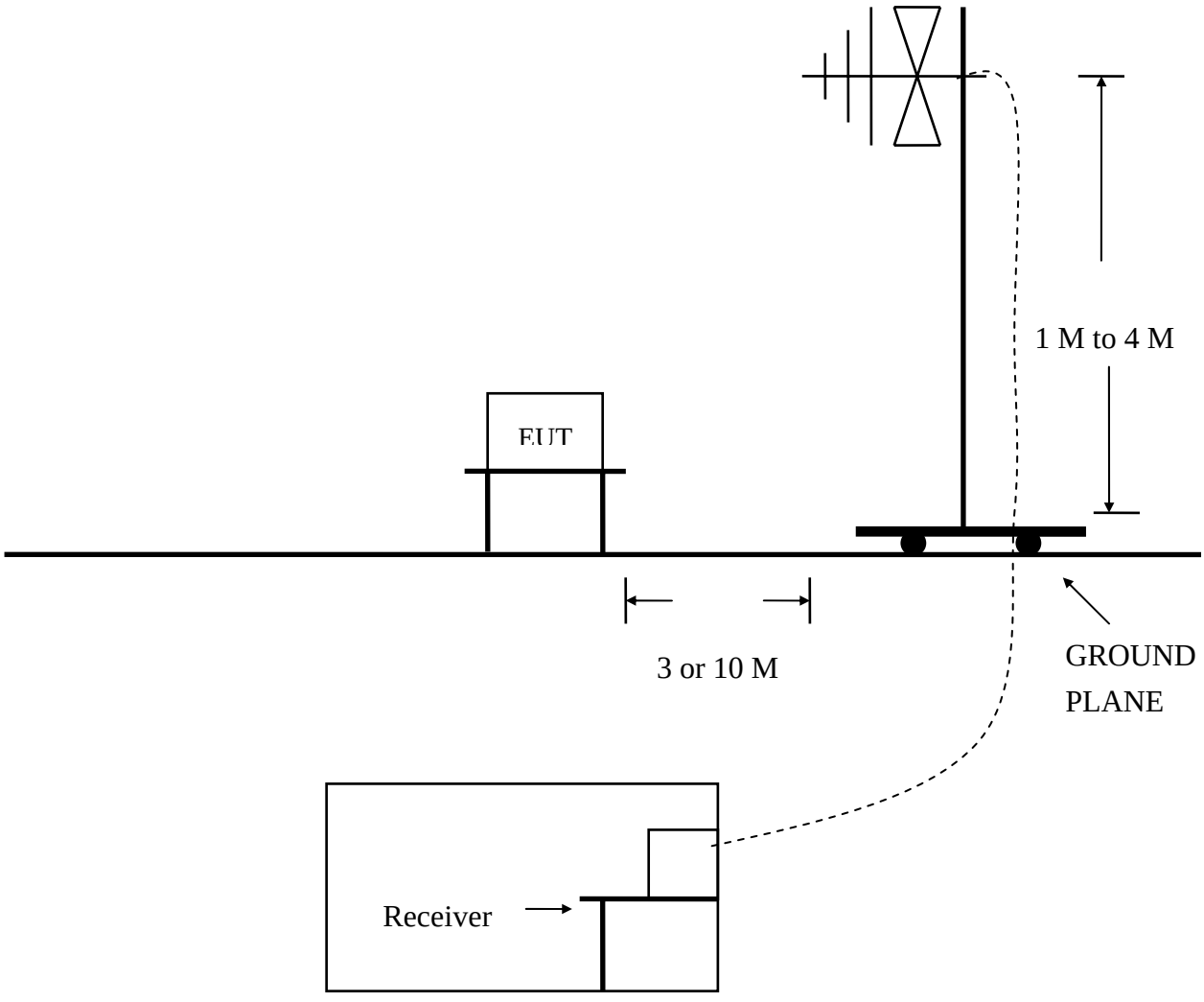
2.1 The EUT was test according to **EN55022**.

2.2 The radiated test was performed at HomeTek Lab's Open Site 3.

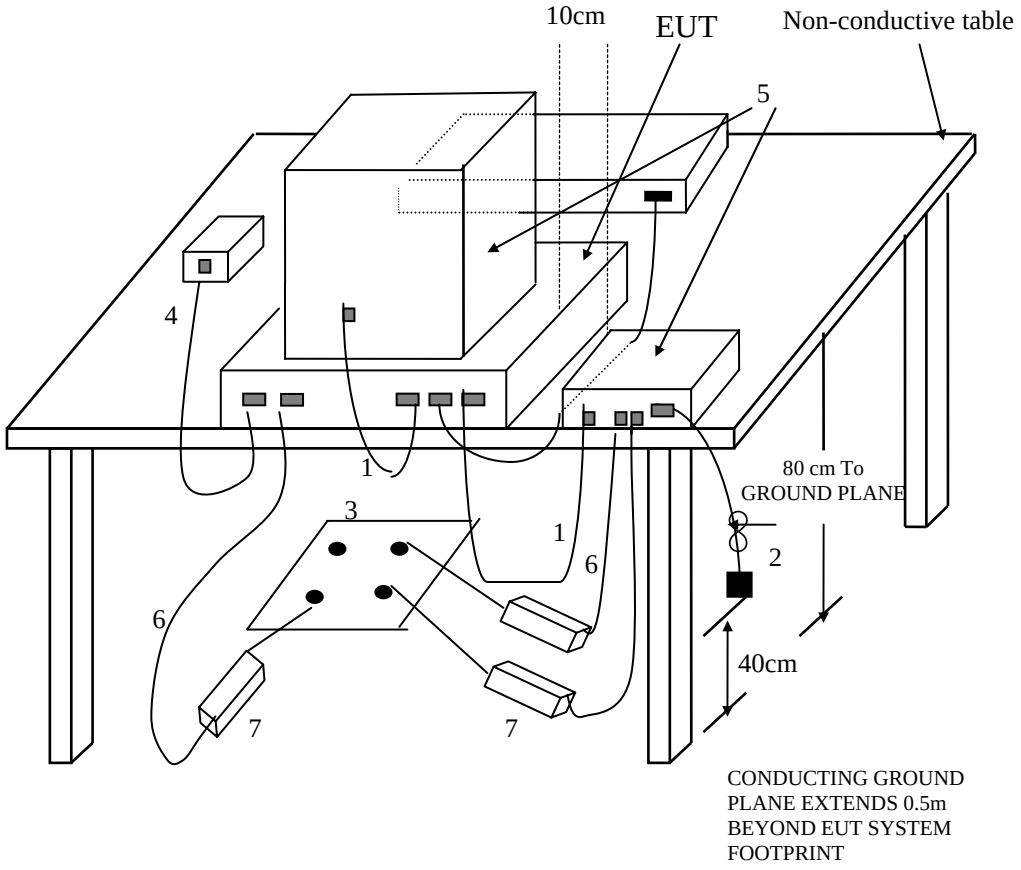
2.3 The frequency range from 30 MHz to 1 GHz, the measurement were made at 10 meters, with a BI-log antenna.

3 TEST SETUP

3.1 TEST SETUP OF OPEN SITE.



(Details for setup configuration, please refer to appendix A.)



(Details for setup configuration, please refer to appendix A.)

LEGEND:

1.If cables, which hang closer than 40 cm to the horizontal metal ground plane cannot be shortened to the appropriate length, the excess shall be folded back and forth forming a bundle 30 m to 40 cm long.

2.The end of I/O signal cables which are not connected to a peripheral may be terminated, if required for proper operation using correct terminating impedance.

3.Mains junction box(es) shall be flush with, and bonded directly to , the metal ground plane.
NOTE if used, the AMN shall be installed under the horizontal metal ground plane.

4.Cables of hand-operated devices such as keyboards, mouses, etc. shall be placed as for normal usage.

5.Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if for an acceptable installation practice, shall be placed directly on top of the controller.

6.Mains cables, telephone lines or other connections to auxiliary equipment located outside the test area shall drape to the floor, be fitted with ferrite clamps or ferrite tubes placed on the floor at the point where the cable reaches the floor and then routed to the place where they leave the turntable. No extension cords shall be used to mains receptacle.

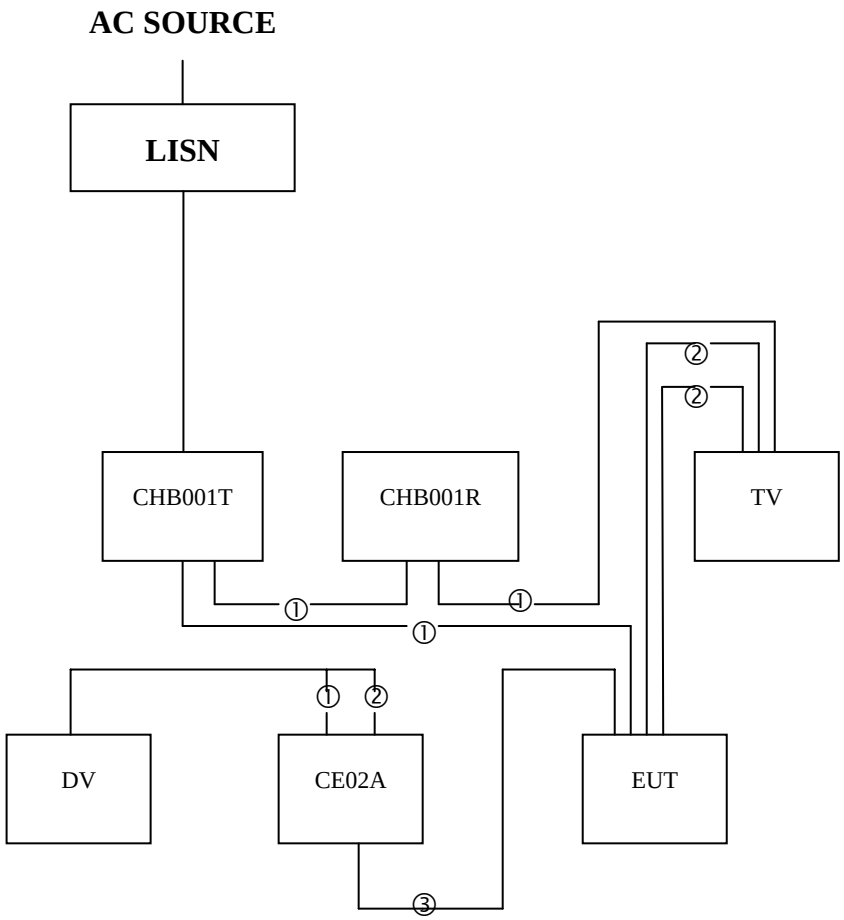
7.Ferrite clamps or ferrite tubes with similar characteristics (as defined in 10.4). No more than one cable per clamp.

Test Configuration

Tabletop Equipment Radiated Measurement

4 CONFIGURATION OF THE EUT

The EUT was configured according to **EN55022**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :



① Video Cable
② Audio Cable
③ RJ-45 Cable

Figure 1

4.1 EUT

EUT Type	:	☐Proto Type ☑Engineer Type ☐Mass Production
Condition when received	:	☑Good ☐Damage : _____
Device	:	CAT5 AV Multimedia Transmission
Applicant	:	Smart Home Engineering Corp.
Manufacturer	:	Smart Home Engineering Corp.
Model Number	:	CE01XXX
Serial Number	:	N/A
FCC ID	:	N/A
RJ-45 Port	:	Plastic Type
Video Output Port	:	Metal Type
Audio Port x 2	:	Metal Type
Power Cord	:	N/A
Power Supply Type	:	N/A

4.2 PERIPHERALS

☑ DV

Manufacturer	:	SONY
Model Number	:	DCR-PC110
Serial Number	:	1158142
FCC ID	:	FCC DoC
Data Cable 1	:	Shielded, 1.8 m, Connect to the Video port
Data Cable 2	:	Shielded, 1.8 m, Connect to the Audio port
Power Cord	:	Un-Shielded, 1.8 m

☑ TV

Manufacturer	:	TCL
Model Number	:	1419A
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable 1	:	Shielded, 1.0 m, Connect to the Video port
Data Cable 2 x 2	:	Shielded, 1.5 m, Connect to the Audio port
Power Cord	:	Un-Shielded, 1.8 m

☑ CAT5 AV Multimedia Transmission

Manufacturer	:	Smart Home Engineering Corp.
Model Number	:	CE02A
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable 1	:	Shielded, 1.8 m, Connect to the Video port
Data Cable 2	:	Shielded, 1.8 m, Connect to the Audio port
Data Cable 3	:	Un-Shielded, 1.0 m, Connect to the RJ-45 port
Power Cord	:	N/A

☑ Video Interference Blocker 1

Manufacturer	:	SMART CABLING & TRANSMISSION CORP.
Model Number	:	CHB001T
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable x 2	:	Shielded, 1.0 m, Connect to the Video port
Power Cord	:	N/A

☑ Video Interference Blocker 2

Manufacturer	:	SMART CABLING & TRANSMISSION CORP.
Model Number	:	CHB001R
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable x 2	:	Un-Shielded, 1.0 m, Connect to the Video port
Power Cord	:	N/A

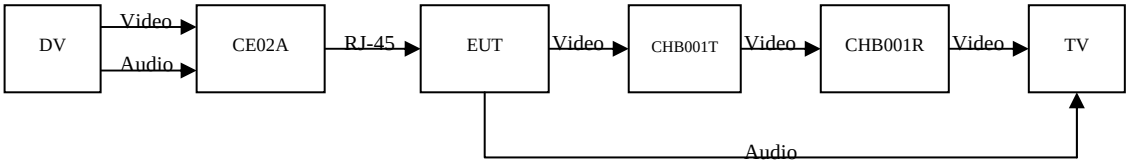
4.3 REMARK : N/A

5 EUT OPERATING CONDITION

5.1 The frequency of the EUT is none.

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 3.

5.3



5.4 TV receivers DV's video signal (color bar) through CHB001T, CHB001R, EUT, CE02A via video cable or RJ-45 cable.

5.5 TV receivers DV's audio signal (1KHz audio) through EUT and CE02A via audio cable or RJ-45 cable.

5.6 TV display color bar and measure the emission noise.

5.7 The photos of radiated test configuration, please refer to appendix A.

6 LIMIT OF RADIATED EMISSION CLASS B

Frequency (MHz)	Measurement Distance	Limit (dBuV/m)
30 - 230	10 (M)	30
230 - 1000	10 (M)	37

7 RESULT OF RADIATED EMISSION TEST

7.1 The frequency range from 30 MHz to 1 GHz was investigated.

7.2 All readings below or equal 1 GHz are quasi-peak or peak values with resolution bandwidth of 120 KHz.

7.3 The measurements were made at 10 meters of HomeTek Lab's open site 3.

7.4 Temperature : 31 ℃, Humidity : 51 % RH.

7.5 Deviation form the test standards and rules : None.

7.6 The radiated emission result were gained by the following method :

Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor

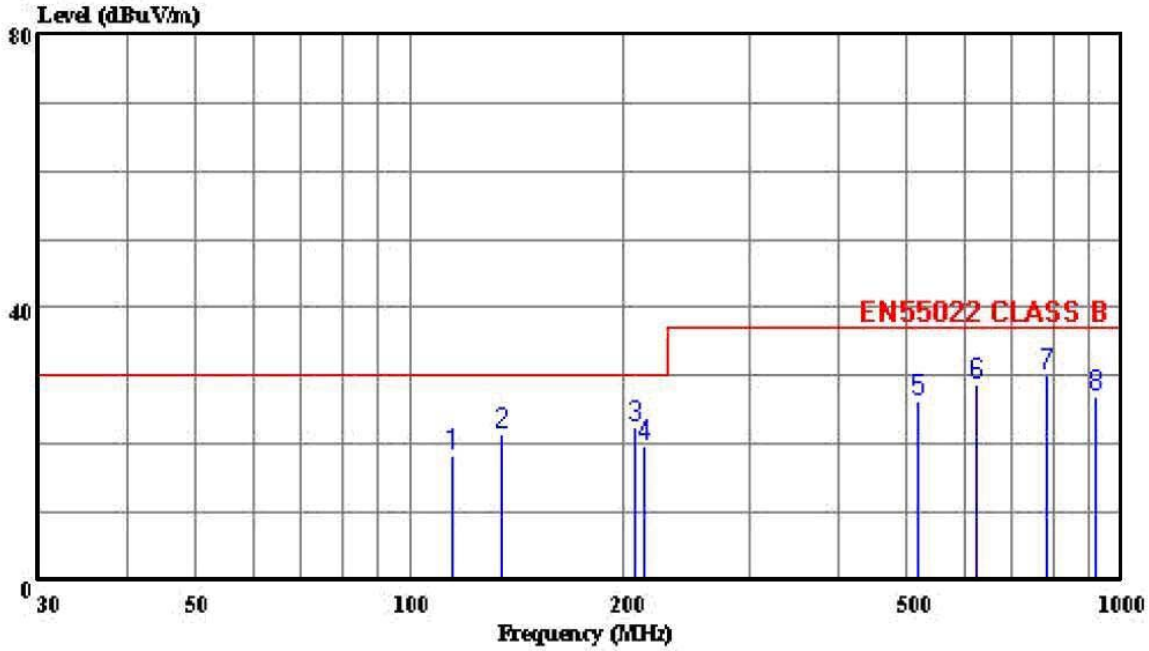
Over Limit = Level – Limit Line

7.7 Result : **PASSED**

8 RADIATED EMISSION TEST DATA (PAGE 1)

HomeTek Technology Inc.
No 67-9,Shi-Men Rd;,Tu-Chen City,
Taipei County, Taiwan R.O.C.
Tel:02-22608375
Fax:02-22748013

Data#: 2 File#: 6K028.EMI Date: 2006-06-26 Time: 19:54:44



Trace: Ref Trace:

Condition: EN55022 CLASS B 10m CHASE 2614 060506 HORIZONTAL
eut : CAT5 AV Multimedia Transmission
power: N/A
memo : CE01A

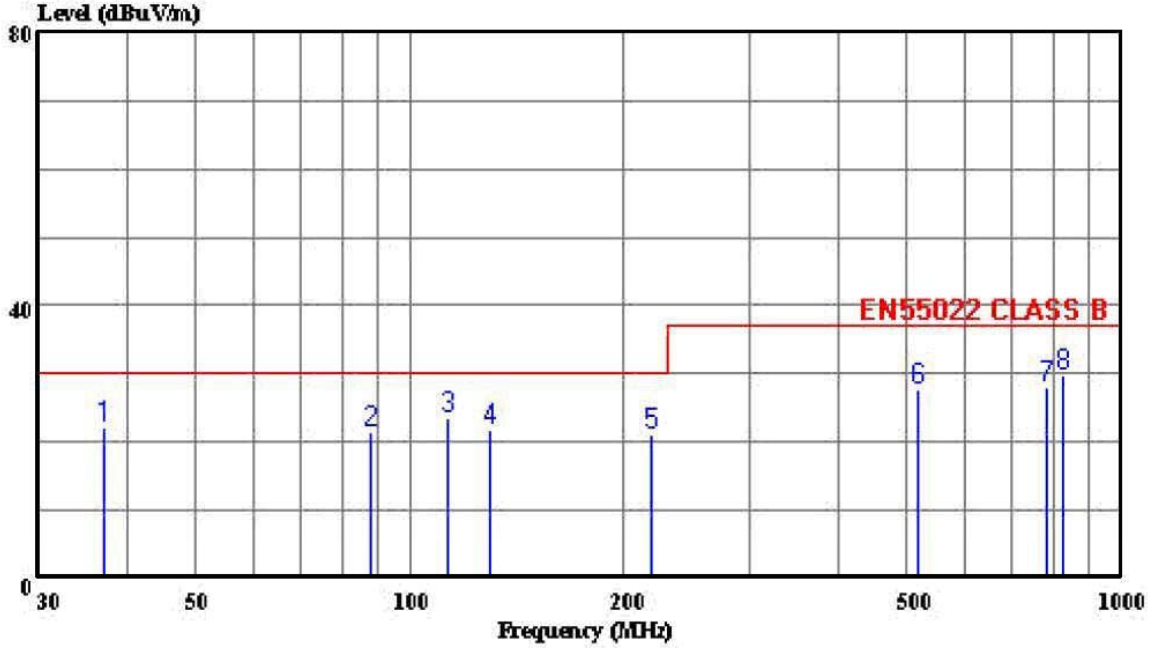
Page: 1

	Freq	Level	Limit Line	Over Limit	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	
1	114.993	18.18	30.00	-11.82	30.23	12.25	1.46	25.76	Peak
2	134.000	21.52	30.00	-8.48	34.21	11.46	1.58	25.72	Peak
3	206.480	22.44	30.00	-7.56	36.95	9.10	2.01	25.62	Peak
4	214.000	19.86	30.00	-10.14	34.33	9.10	2.04	25.61	Peak
5	518.553	26.45	37.00	-10.55	30.07	17.87	3.41	24.89	Peak
6	627.627	28.82	37.00	-8.18	30.65	18.77	3.81	24.40	Peak
7	782.573	30.01	37.00	-6.99	29.89	19.70	4.26	23.84	Peak
8	917.280	26.93	37.00	-10.07	24.65	20.50	5.15	23.36	Peak

9 RADIATED EMISSION TEST DATA (PAGE 2)

HomeTek Technology Inc.
No 67-9,Shi-Men Rd;,Tu-Chen City,
Taipei County, Taiwan R.O.C.
Tel:02-22608375
Fax:02-22748013

Data#: 1 File#: 6K028.EMI Date: 2006-06-26 Time: 19:01:52



Trace: Ref Trace:

Condition: EN55022 CLASS B 10m CHASE 2614 060506 VERTICAL
eut : CAT5 AV Multimedia Transmission
power: N/A
memo : CE01A

Page: 1

	Freq	Level	Limit Line	Over Limit	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	
1	37.000	22.18	30.00	-7.82	31.70	15.62	0.82	25.96	Peak
2	88.000	21.31	30.00	-8.69	37.21	8.65	1.27	25.82	Peak
3	113.000	23.60	30.00	-6.40	35.73	12.18	1.45	25.76	Peak
4	129.313	21.90	30.00	-8.10	34.54	11.54	1.55	25.73	Peak
5	219.000	21.25	30.00	-8.75	35.63	9.17	2.06	25.60	Peak
6	515.680	27.67	37.00	-9.33	31.42	17.76	3.39	24.91	Peak
7	782.033	27.99	37.00	-9.01	27.87	19.70	4.26	23.84	Peak
8	827.687	29.61	37.00	-7.39	28.79	20.04	4.51	23.72	Peak

HARMONICS TEST

1 TEST PROCEDURE

According to **EN 61000-3-2 (2000)**.

2 RESULT OF HARMONICS TEST

N/A (This standard is not applicable to this EUT (Model : CE01A)).

VOLTAGE FLUCTUATIONS TEST

1 TEST PROCEDURE

According to **EN 61000-3-3 (1995) + A1 (2001)**.

2 RESULT OF VOLTAGE FLUCTUATIONS TEST

N/A (This standard is not applicable to this EUT (Model : CE01A)).

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

1 TEST INSTRUMENTS & FACILITIES

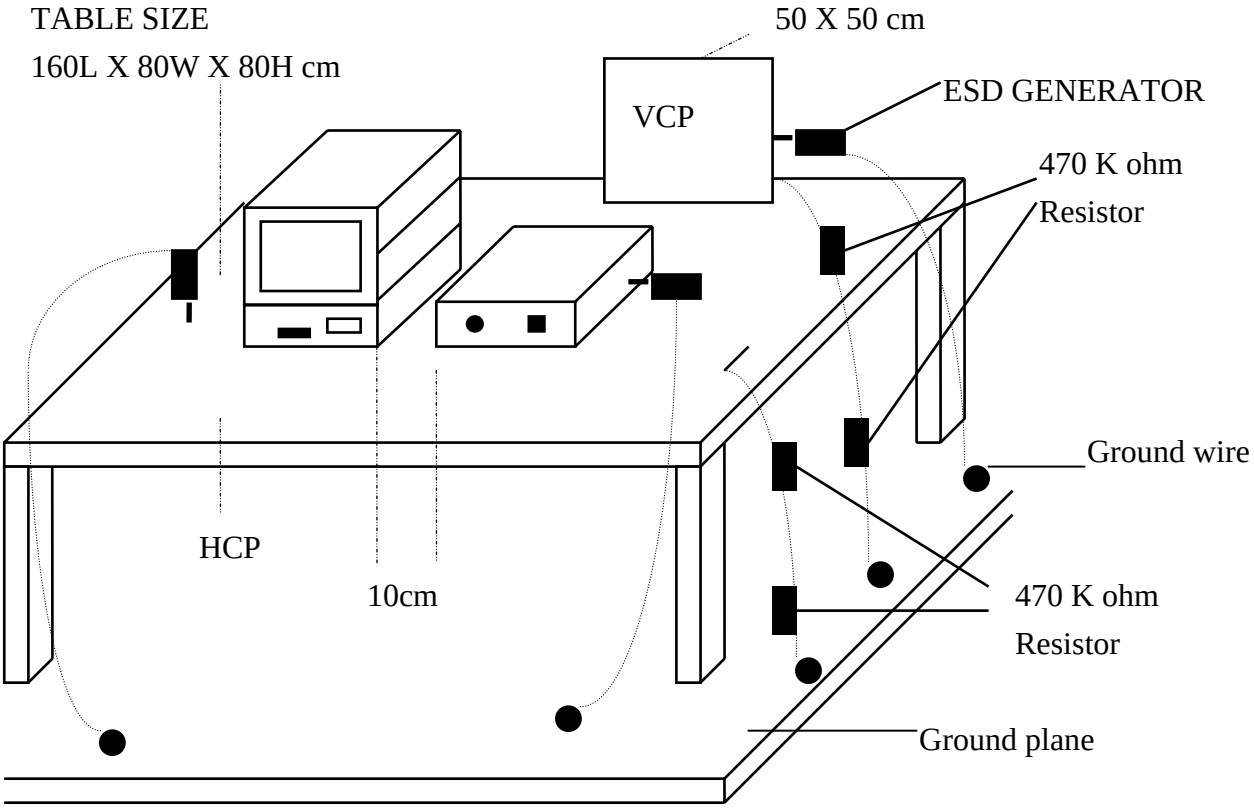
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
ESD TESTER	NOISEKEN	ESS-100L (A)	OCT/2005
VCP	HOMETEK	--	--

2 TEST PROCEDURE

According to **IEC 61000-4-2 (2001)**

According to **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



(Details for setup configuration, please refer to appendix A.)

4 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

5 EUT OPERATION CONDITION

Same as “Radiated Emission test”, section 5

6 TEST CONDITION

6.1 Test Level :

(A) ±2, ±4, ±8KV for air discharge.

(B) ±2, ±4KV for contact discharge.

6.2 Number of test : 10 Discharges / Test point / Polarity / Level

Particular requirements : at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points.

6.3 Time between test : 1 sec.

6.4 Temperature : 23 ℃

6.5 Humidity : 50 % RH.

7 PERFORMANCE CRITERIA

A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

Test Point	Air Discharge	Contact Discharge	Performance Criteria	Result
HCP	---	±2, ±4KV	A	**PASSED**
VCP	---	±2, ±4KV	A	**PASSED**
CASE	±2, ±4, ±8KV	±2, ±4KV	A	**PASSED**
I/O PORTS	±2, ±4, ±8KV	±2, ±4KV	A	**PASSED**

9 Photos of test configuration please refer to appendix A.

RADIO FREQUENCY ELECTROMAGNETIC FILE IMMUNITY TEST (RS)

1 TEST INSTRUMENTS & FACILITIES

Item	Instruments Facilities	Manufacturer	Model # Serial #	Data Of Cal.
1	SIGNAL GENERATOR	ROHDE & SCHWARZ	SMY02 845181/025	MAR/2006
2	AMPLIFIER	AMPLIFIER RESEARCH	100W1000M1A	N/A
3	FIELD SENSOR	AMPLIFIER RESEARCH	FP2000	AUG/2004
4	FIELD MONITOR	AMPLIFIER RESEARCH	FM2000	AUG/2004
5	RF VOLTMETER	BOONTON	9200C 361701AA	MAR/2006
6	RF PROBE	BOONTON	952001B 37082	MAR/2006
7	DIRECTION COUPLER	AMPLIFIER RESEARCH	DC6180 20521	N/A
8	ANTENNA	EMCO	3142B S/N: 1789	N/A
9	CONTROL PC	KB TECH	KB P586/133	--

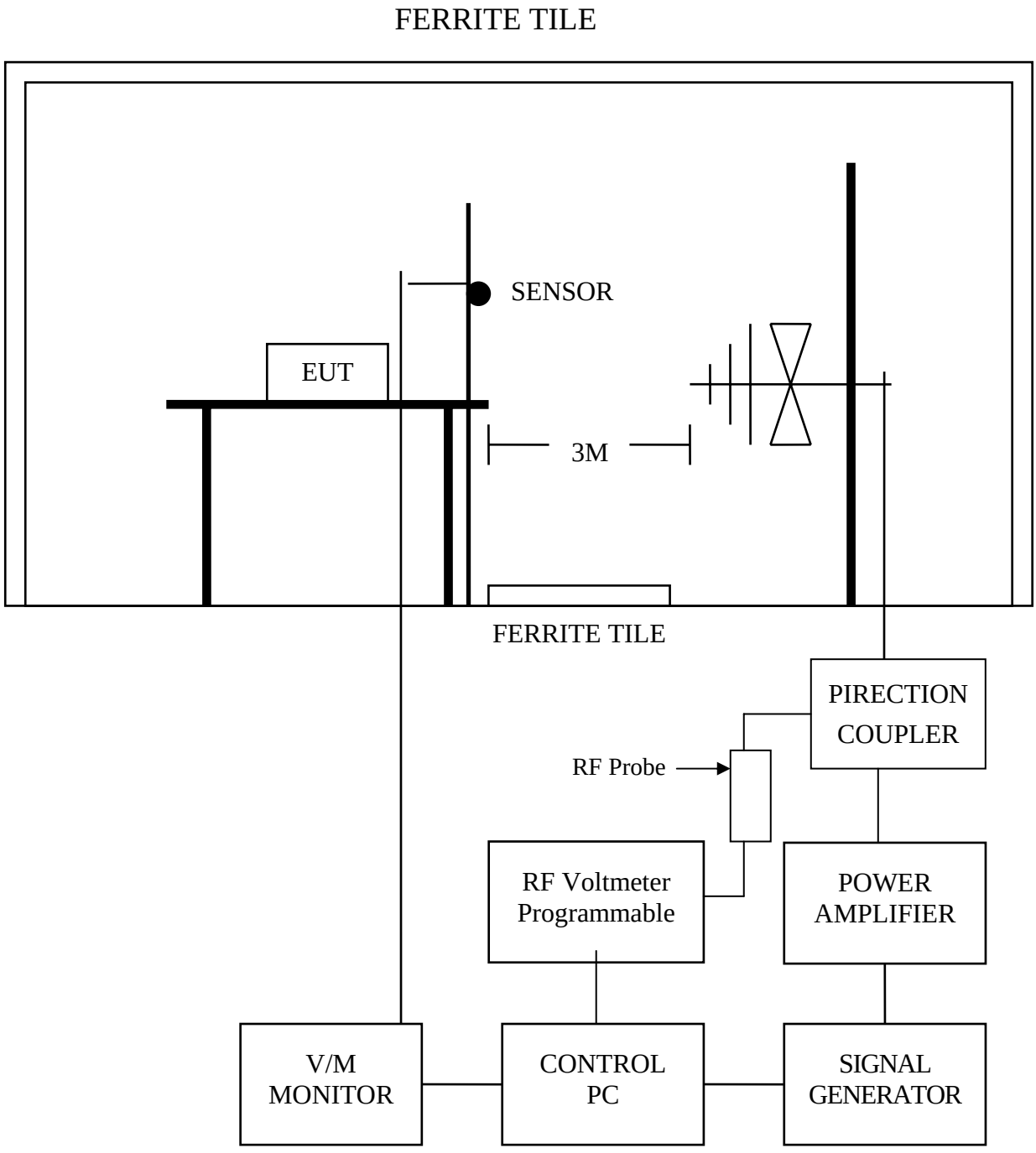
Note : Items 3 ~ 4 were calibrated with two years and verified before testing.

2 TEST PROCEDURE

According to **IEC 61000-4-3 (2002)**

According to **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



3.1 Chamber Size :

12M x 5M x 5M

(Details for setup configuration, please refer to appendix A.)

4 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Radiated Emission test”, section 5

6 TEST CONDITION

6.1 Frequency Range : 80 MHz ~ 1000 MHz

(Frequency Range : 1.4 GHz ~ 2.0 GHz is not applicable for EN55024:1998+A1:2001+A2:2003)

6.2 Filed Strength : 3 V / M (1KHz 80% Modulation)

6.3 Frequency Step : 1 %, 3 sec. / each step size

6.4 Antenna Polarity : HORIZONTAL & VERTICAL

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

6.6 Temperature : 26 ℃

6.7 Humidity : 55 % RH

7 PERFORMANCE CRITERIA

A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

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 Photos of test configuration please refer to appendix A.

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

1 TEST INSTRUMENTS & FACILITIES

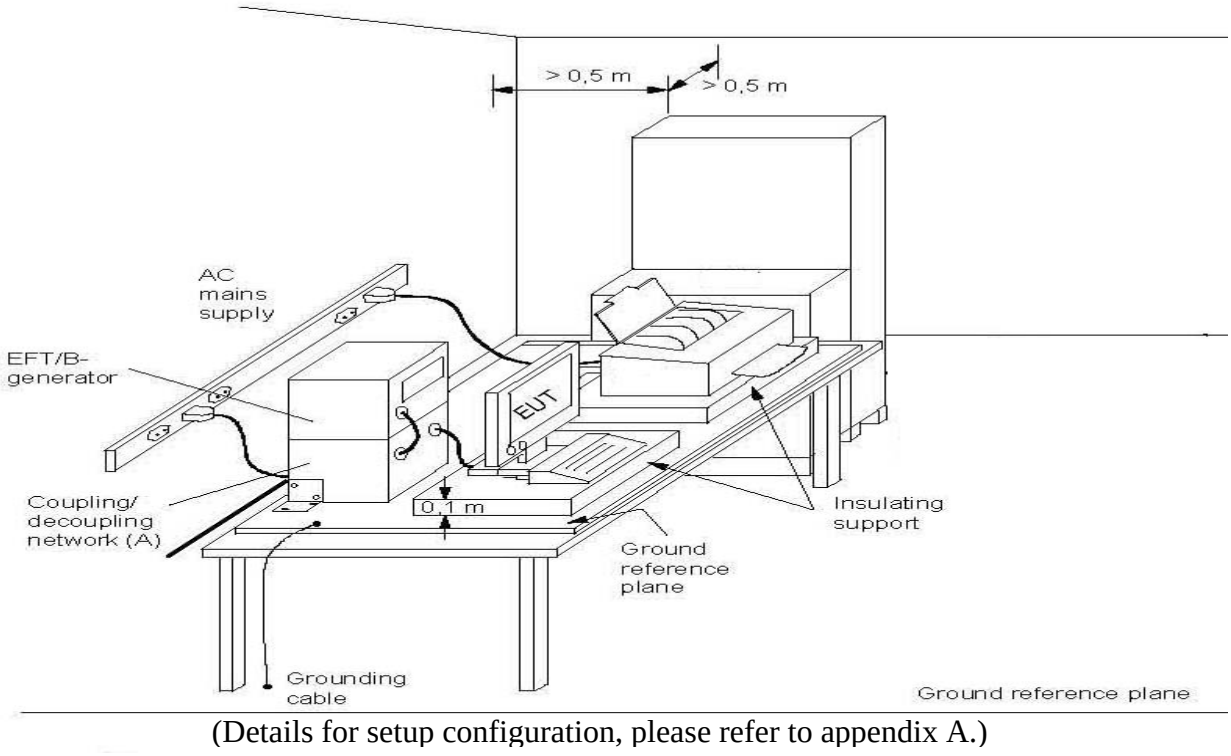
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
BURST-TESTER	HAEFELY	PEFT/JUNIOR	FEB/2006
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

According to **IEC 61000-4-4 (2004)**

According to **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



(Details for setup configuration, please refer to appendix A.)

Note: length between clamp and the EUT to be tested (should be 0.5 m ± 0.05 m)

(A) location for supply line coupling

(B) location for signal line coupling

4 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

5 OPERATION CONDITION OF EUT

Same as “Radiated Emission 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 Coupling of power line :
L, N, PE, L+N, L+PE, N+PE, L+N+PE

6.5 Test Voltage of Signal Control Line : ±0.25KV, ±0.5KV

6.6 Temperature : 24 ℃

6.7 Humidity : 55 % RH

7 PERFORMANCE CRITERIA

A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

8 TEST RESULT

Signal Control Line :

TEST VOLTAGE	PERFORMACE CRITERIA
±0.25KV	A
±0.5KV	A

8.1 Model : CE01A

8.2 Final Result : PASSED

8.3 Remark :

9 Photos of test configuration please refer to appendix A.

SURGE IMMUNITY TEST

1 TEST PROCEDURE

According To **IEC 61000-4-5 (2001)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

2 RESULT OF SURGE IMMUNITY TEST

N/A (This standard is not applicable to this EUT (Model : CE01A)).

IMMUNITY TEST TO CS CONDUCTED DISTURBANCE

1 TEST PROCEDURE

According To **IEC 61000-4-6 (2004)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

2 RESULT OF IMMUNITY TEST TO CS CONDUCTED DISTURBANCE

N/A (This standard is not applicable to this EUT (Model : CE01A)).

POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

1 TEST INSTRUMENTS & FACILITIES

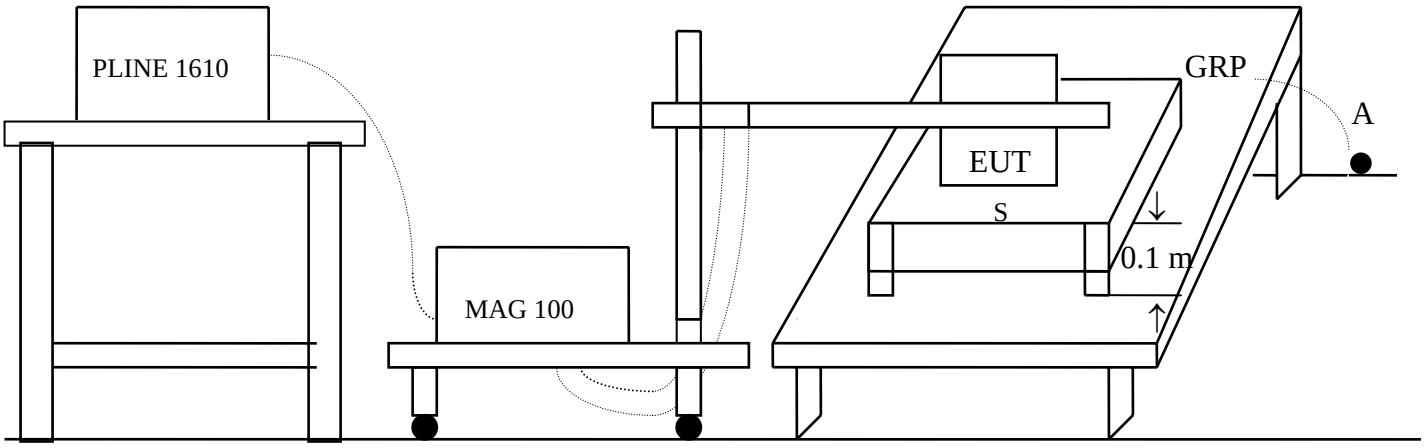
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
LINE INTERFERENCE TESTER	HAEFELY	PLINE 1610 080166-10	MAR/2006
MAGNETIC FIELD TESTER	HAEFELY	MAG 100.1 080206-01	N/A
TRIAXIAL ELF MAGNETIC FIELD METER	F.W.BELL	4080 9645	JUL/2005
CONTROL PC	KB TECH	KB P586/133	--

2 TEST STANDARD

According To **IEC 61000-4-8 (2001)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

3 TEST SETUP



S: Insulating support
A: Safety earth
GRP: Ground plane

(Details for setup configuration, please refer to appendix A.)

4 TEST LEVELS

Environmental Phenomena	Test Specification	Units	Performance Criteria
Power Frequency	50	HZ	
Magnetic Field	1	A/m	B

5 CONFIGURATION OF THE EUT

Same as “Radiated Emission test”, section 4

6 OPERATION CONDITION OF EUT

Same as “Radiated Emission test”, section 5

7 CONDITIONS DURING TESTING

7.1 Temperature : 24 ℃ (15℃ ~ 35℃)

Humidity : 55 % RH.(25 % ~ 75%)

7.2 The induction coil shall be rotated by 90°

8 PERFORMANCE CRITERIA

A. The apparatus shall continue to operate as intended during and after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended.

B. The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer, when the apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is however allowed.

C. Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls.

9 TEST RESULTS

Environmental Phenomena	Test Specification	Units	Performance Criteria
Magnetic Field	1	A/m	A

9.1 Model : CE01A

9.2 Final Results : PASSED

9.3 Remark :

10 Photos of test configuration please refer to appendix A.

VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST

1 TEST PROCEDURE

According To **IEC 61000-4-11 (2004)**

According To **EN 55024 (1998) + A1 (2001) + A2 (2003)**

2 RESULT OF VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST

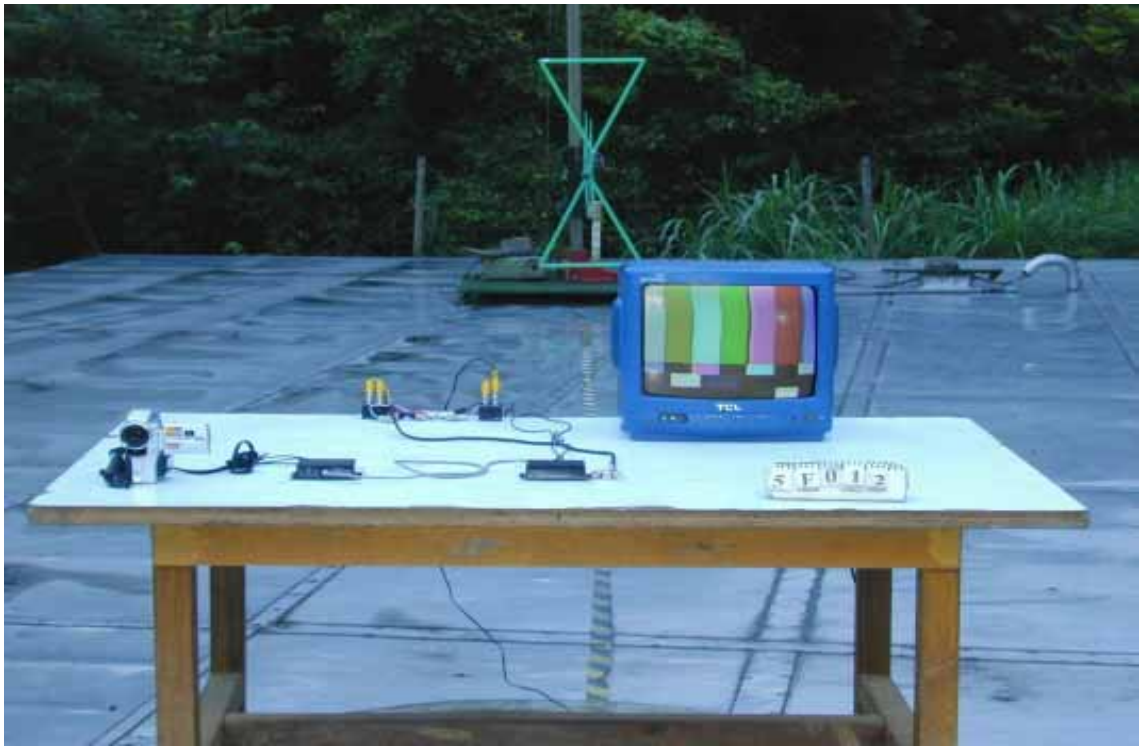
N/A (This standard is not applicable to this EUT (Model : CE01A)).

Appendix A

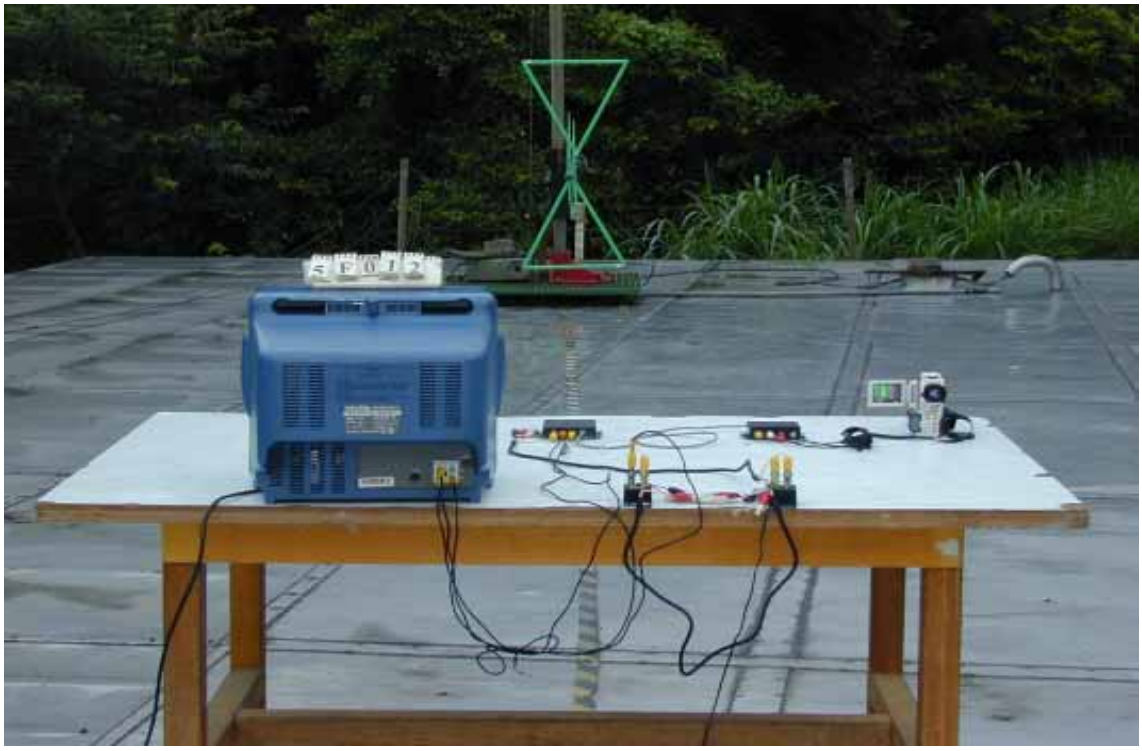
PHOTOS OF TEST CONFIGURATION

PHOTO OF RADIATED EMISSION TEST

Model : CE01A



Front View



Rear View

PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

Model : CE01A

PHOTO OF POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST

PHOTO OF RADIO FREQUENCY ELECTROMAGNETIC FILE IMMUNITY TEST (RS)

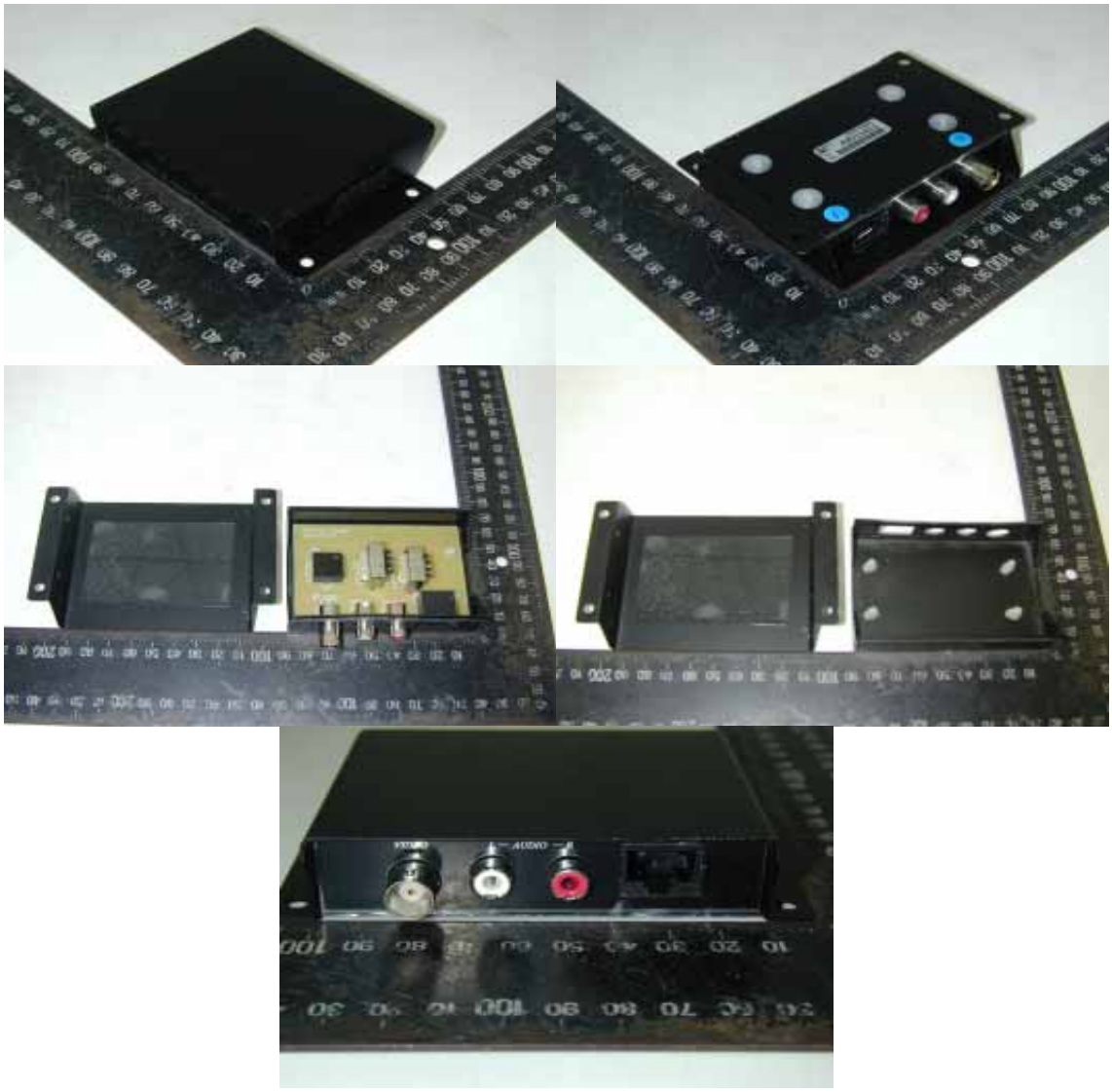
Model : CE01A

Appendix B

PHOTOS OF EUT

PHOTO OF EUT

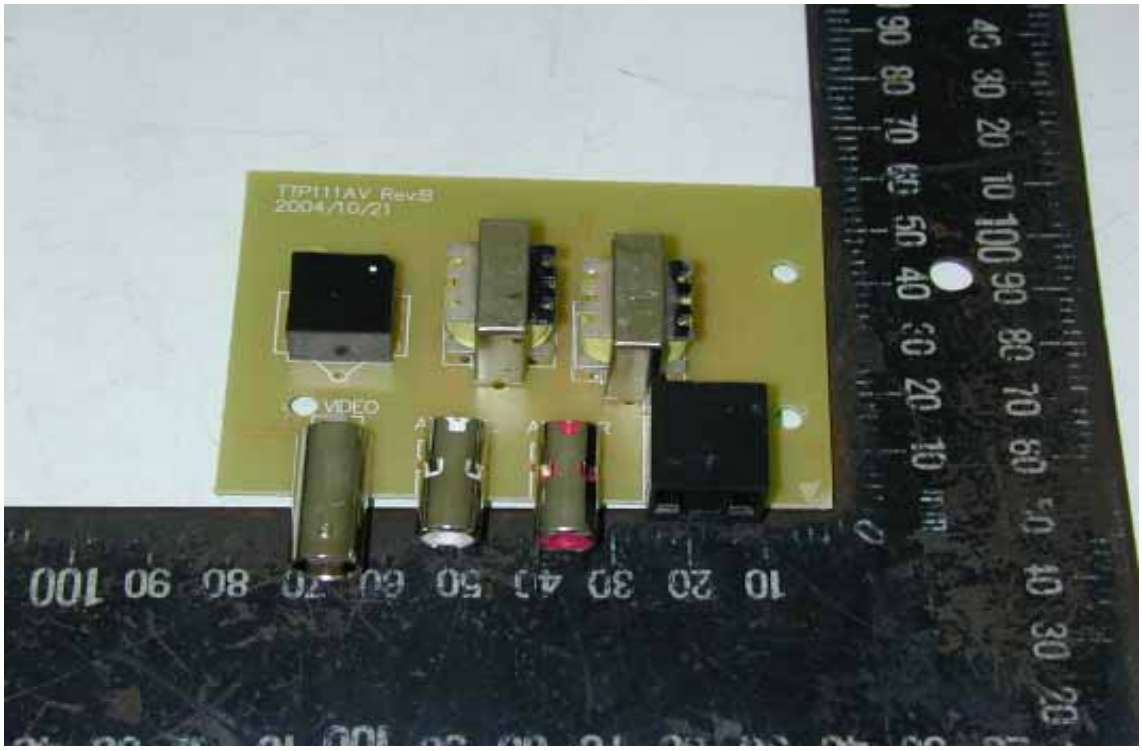
Model : CE01A



Full View of EUT

PHOTO OF EUT

Model : CE01A



Component Side of Main Board

Solder Side of Main Board

Declaration of Conformity

We(Manufacturer/Importer)

_____

(company name)

_____

(address)

declares under our sole responsibility that the product

Product name : CAT5 AV Multimedia Transmission

Model No. : CE01XXX

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

☑	EN 55022 Class B	(1998)	☑	EN 55024	(1998)
	+ A1	(2000)		+ A1	(2001)
	+ A2	(2003)		+ A2	(2003)
☑	EN 61000-3-2	(2000)	☑	IEC 61000-4-2	(2001)
☑	EN 61000-3-3	(1995)	☑	IEC 61000-4-3	(2002)
	+ A1	(2001)	☑	IEC 61000-4-4	(2004)
			☑	IEC 61000-4-5	(2001)
			☑	IEC 61000-4-6	(2003)
				+ A1	(2004)
			☑	IEC 61000-4-8	(2001)
			☑	IEC 61000-4-11	(2004)

following the provisions of 2004/108/EC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____

CE Title: _____

EB6K028

TÜV Rheinland Taiwan Ltd.

TÜV

Certificate

of

Appointment

for the applicant:

Hometek Technology Inc.
No. 67-9, Shir Men Rd., Tu-Cheng City,
Taipei Hsien 236, Taiwan, R.O.C.

has been authorized to carry out EMC tests by order and under supervision of TÜV Rheinland. It has successfully demonstrated capability to conduct measurement and to process test data according to:

European and International EMC Standards as listed in the Scope of Authorization on the attachment to this certificate

An assessment of the facility was conducted by TÜV Rheinland auditors according to the TÜV Rheinland requirements for "Test Site Approval" with reference to

ISO 17 025:1999

Certificate No. : 10012161-2006 **Valid until : June 14, 2007**

TÜV Rheinland Taiwan Ltd.
Taipei, April 13, 2006

Dipl.-Ing. Andreas Klinker
Certification Body

Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality

TÜV

Attachment to

Certificate

of Appointment

SCOPE OF AUTHORIZATION

Hometek Technology Inc.
No. 67-9, Shir Men Rd., Tu-Cheng City,
Taipei Hsien 236, Taiwan, R.O.C.

European Standards

EN 50081-1	EN 61000-3-2	ENV 50140
EN 50081-2	EN 61000-3-3	ENV 50141
EN 50082-1	EN 61000-6-1	ENV 50204
EN 50130-4	EN 61000-6-2	
EN 50091-2	EN 61000-6-3	
EN 55011	EN 61000-6-4	
EN 55013	EN 61000-3-11	
EN 55014-1	EN 61000-4-2	
EN 55014-2	EN 61000-4-3	
EN 55022	EN 61000-4-4	
EN 55024	EN 61000-4-5	
EN 60601-1-2	EN 61000-4-6	
EN 60801	EN 61000-4-8	
EN 60945	EN 61000-4-11	
	EN 61204-3	

International Standards

CISPR 11	IEC 61000-4-2	IEC 61000-3-2
CISPR 13	IEC 61000-4-3	IEC 61000-3-3
CISPR 14-1	IEC 61000-4-4	IEC 61000-3-11
CISPR 14-2	IEC 61000-4-5	IEC 61000-6-1
CISPR 22	IEC 61000-4-6	IEC 61000-6-2
CISPR 24	IEC 61000-4-8	IEC 61000-6-3
	IEC 61000-4-11	IEC 61000-6-4
IEC 801.2	IEC 61000-4-12	IEC 60945
IEC 801.3		
IEC 801.4		

Certificate No. : 10012161-2006

Taipei, April 13, 2006

Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality

TÜV Rheinland Taiwan Ltd.

TÜV

Certificate

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An assessment of the facility was conducted by TÜV Rheinland auditors according to the TÜV Rheinland requirements for "Test Site Approval" with reference to

ISO 17025: 2005

Certificate No. : 10012161-2007 **Valid until : Sept. 7, 2008**

TÜV Rheinland Taiwan Ltd.
Taipei, June 20, 2007

i. V. F.
Dipl.-Ing. Andreas Klinker
Certification Body

Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality

TÜV

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EN 55011	EN 61000-3-11	
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EN 55014-1	EN 61000-4-3	
EN 55014-2	EN 61000-4-4	
EN 55022	EN 61000-4-5	
EN 55024	EN 61000-4-6	
EN 60601-1-2	EN 61000-4-8	
EN 60801	EN 61000-4-11	
EN 60945	EN 61204-3	
EN 61000-3-2	EN 62040-2	

International Standards

CISPR 11	IEC 61000-4-2	IEC 61000-3-2
CISPR 13	IEC 61000-4-3	IEC 61000-3-3
CISPR 14-1	IEC 61000-4-4	IEC 61000-3-11
CISPR 14-2	IEC 61000-4-5	IEC 61000-6-1
CISPR 22	IEC 61000-4-6	IEC 61000-6-2
CISPR 24	IEC 61000-4-8	IEC 61000-6-3
	IEC 61000-4-11	IEC 61000-6-4
IEC 801.2	IEC 61000-4-12	IEC 60945
IEC 801.3		IEC 62040-2
IEC 801.4		

Certificate No. : 10012161-2007

Taipei, June 20, 2007

Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality