EMC LAB
HomeTek
HomeTek Technology Inc.

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

CERTIFICATE OF COMPLIANCE

EUT	: Twisted Pair Transmission
MODEL NO.	: TTP111XXX, TTP414XXX, TDP414XXX
Receipt Date	: 06/23/2005 Final Test Date: 07/13/2005
REPORT #	: EB4F051
APPLICANT	: SMART CABLING & TRANSMISSION CORP.
ADDRESS	: 7F-1, No. 168, Lien Cheng Rd., Chung-Ho City, Taipei Hsien, Taiwan, R. O. C.

Measurement procedure used:

EMI: EN 61000-6-3 (2001): CISPR 22 Class B (1997),
EN 61000-3-2 (2000), EN 61000-3-3 (1995) + A1 (2001)
EMS: EN 50130-4 (1996) + A1 (1998):
IEC 61000-4-2 (2001), IEC 61000-4-3 (2002), IEC 61000-4-4 (2004),
IEC 61000-4-5 (2001), ENV 50141 (1993), 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 89/336/EEC**, and the energy emitted by the equipment was found to be within the limits applicable.

This test result 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 : Frankie DATE : 7/14/2005
FRANKIE WANG

CHECK BY : Alain Lin DATE : 7/14/2005
ALAIN LIN / Director

APPROVED BY : Tommy Rau DATE : 7/14/2005
TOMMY RAU / Manager

TABLE OF CONTENTS

GENERAL INFORMATION

1 APPLICANT : SMART CABLING & TRANSMISSION CORP.

2 ADDRESS : 7F-1, No. 168, Lien Cheng Rd.,
Chung-Ho City, Taipei Hsien, Taiwan, R. O. C.

3 MANUFACTURER : SMART CABLING & TRANSMISSION CORP.

4 ADDRESS : 7F-1, No. 168, Lien Cheng Rd.,
Chung-Ho City, Taipei Hsien, Taiwan, R. O. C.

5 DESCRIPTION OF EUT :

EUT : Twisted Pair Transmission

Model : TTP111XXX, TTP414XXX, TDP414XXX

Serial # : N/A

5.1 The difference between series of models TTP111XXX, TTP414XXX, TDP414XXX are as shown below:

(1) The first "X" represent different color.
(2) The second "X" represent different packing box.
(3) The third "X" represent different accessory.

The PCB layout is same. 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 **EN 61000-6-3**.

2 RESULT OF CONDUCTED EMISSION TEST

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

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/2004
2	EMI TEST RECEIVER	20Hz ~ 26.5GHz	ROHDE & SCHWARZ	ESMI 845442/006	JAN/2005
3	PRE-AMPLIFIER	9KHz ~ 3000MHz	ADVANTEST	BB525C 90081001	SEP/2004
4	ANTENNA (BI-LOG)	25MHz ~ 2GHz	SCHAFFNER	CBL6112B S/N : 2611	JUN/2005
5	Attenuation	50Ω/6dB	JYE BAO	FAT-N (M-F) 001	JUL/2004
6	Cable	10m	SUHNER	RG214/U OS3-003	DEC/2004
7	Cable	14m	BELDEN	9913 OS3-001	DEC/2004
8	EMI 32 (software)	N/A	AUDIX	19991013-0923	N/A

Note : Items 1 ~ 7 were calibrated within period of 1 year.

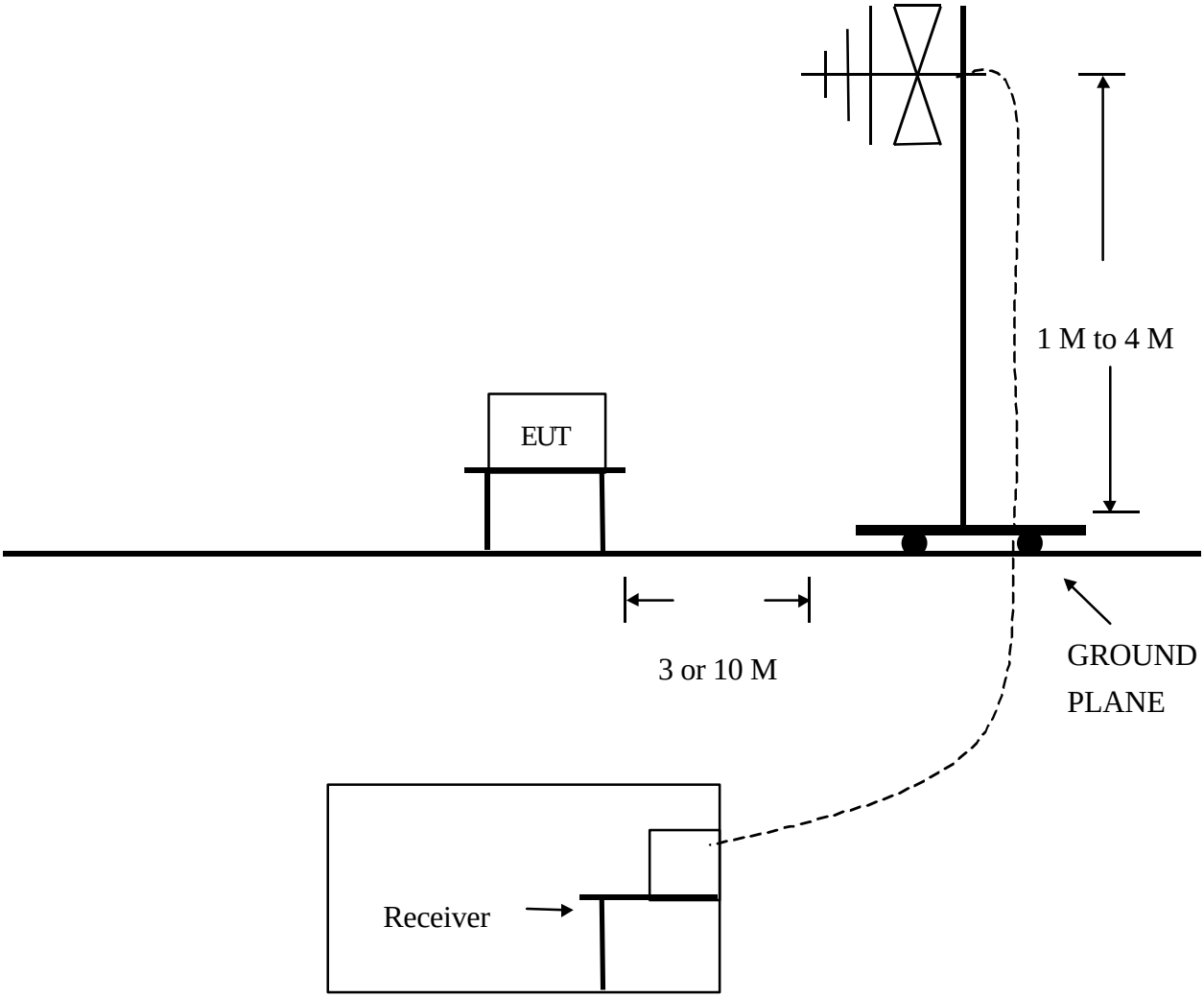
2 TEST PROCEDURE

2.1 The EUT was test according to **CISPR 22 Class B**.

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

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



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

4 CONFIGURATION OF THE EUT

The EUT was configured according to **EN 61000-6-3**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

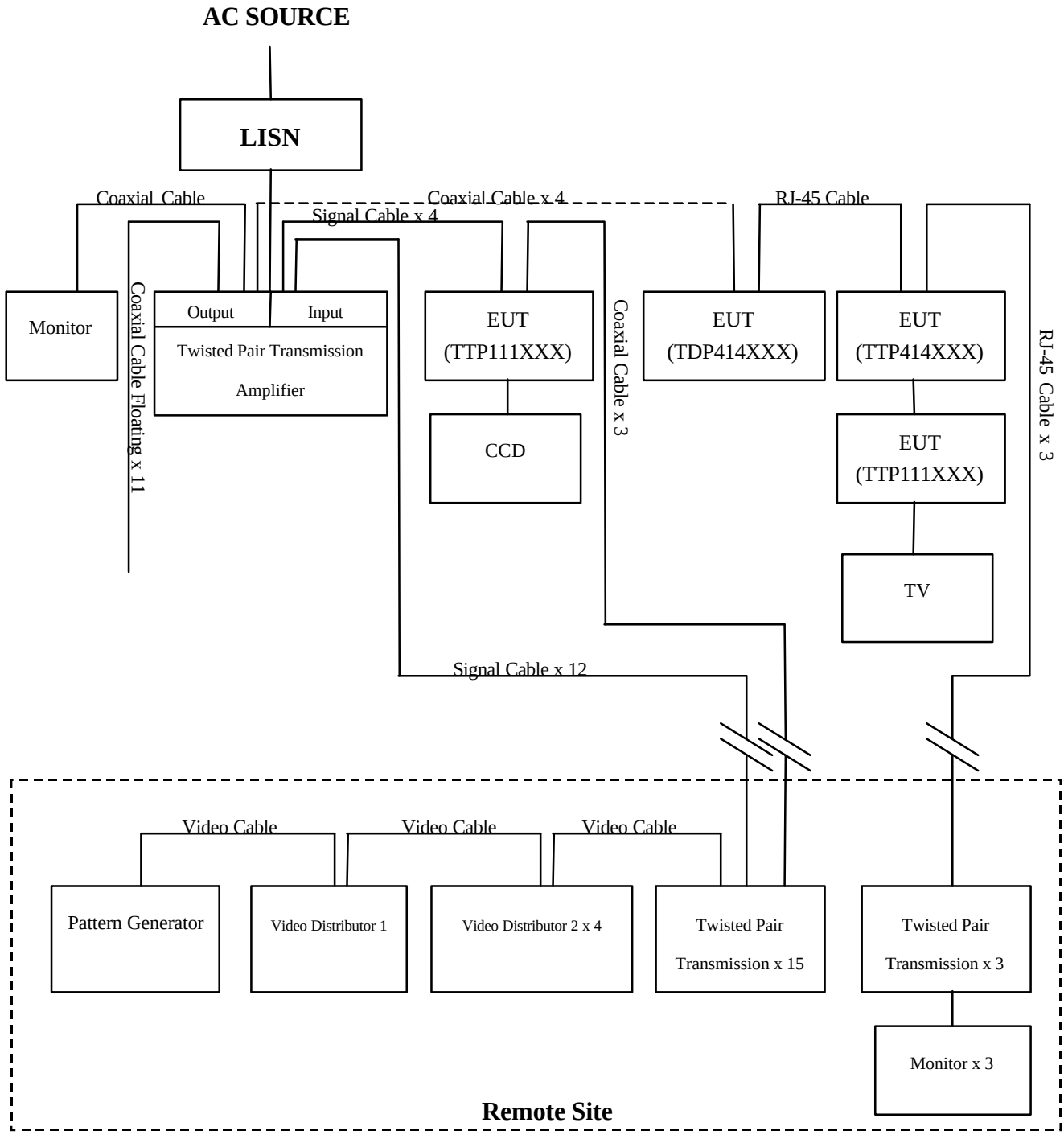


Figure 1

4.1 EUT

EUT Type	:	☐Proto Type ☑Engineer Type ☐Mass Production
Condition when received	:	☑Good ☐Damage : _____
Device	:	Twisted Pair Transmission
Applicant	:	SMART CABLING & TRANSMISSION CORP.
Manufacturer	:	SMART CABLING & TRANSMISSION CORP.
Model Number	:	TTP111XXX, TTP414XXX, TDP414XXX
Serial Number	:	N/A
FCC ID	:	N/A
Model No. TTP111XXX		
● BNC Port	:	Metal Type Connector
● Signal Cable	:	Un-Shielded, 1.8 m, Plastics Type Connector
Model No. TDP414XXX		
● Coaxial Cable x 4 (BNC Port)	:	Shielded, 2.0 m, Metal Type Connector
● RJ-45 Cable	:	Un-Shielded, 1.8 m, Plastics Type Connector
Power Cord	:	N/A
Model No. TTP414XXX		
● RJ-45 Cable x 4	:	Un-Shielded, 10 m, Plastics Type Connector
● RJ-45 Cable	:	Un-Shielded, 1.8 m, Plastics Type Connector
Power Cord	:	N/A

4.2 PERIPHERALS

☑ Monitor

Manufacturer	:	SONI
Model Number	:	MT14A
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Shielded, 2.0 m
Power Cord	:	Un-Shielded, 1.8 m

☑ CCD

Manufacturer	:	ADDVTSUAL
Model Number	:	AD1464KC
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Un-Shielded, 1.8 m
Power Cord	:	Un-Shielded, 1.8 m

☑ TV

Manufacturer	:	TCL
Model Number	:	1419A
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Un-Shielded, 1.8 m
Power Cord	:	Un-Shielded, 1.8 m

☑ Twisted Pair Transmission x 5

Manufacturer	:	SMART CABLING
Model Number	:	TTP111XXX
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable 1	:	Un-Shielded, 1.8 m
Data Cable 2	:	Un-Shielded, 10 m
Power Cord	:	N/A

☑ Twisted Pair Transmission

Manufacturer	:	SMART CABLING
Model Number	:	TTP414XXX
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable 1	:	Un-Shielded, 1.8 m
Data Cable 2	:	Un-Shielded, 10 m
Power Cord	:	N/A

☑ Twisted Pair Transmission

Manufacturer	:	SMART CABLING
Model Number	:	TDP414XXX
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Un-Shielded, 1.8 m
Power Cord	:	N/A

☑ Twisted Pair Transmission Amplifier

Manufacturer	:	SMART CABLING
Model Number	:	TPA016
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable 1	:	Shielded, 2.0 m
Data Cable 2	:	Un-Shielded, 1.8 m
Power Cord	:	Un-Shielded, 1.8 m

☑ Twisted Pair Transmission x 18 (Remote Site)

Manufacturer	:	SMART CABLING
Model Number	:	TTP111XXX
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Un-Shielded, 10 m
Power Cord	:	N/A

☑ Video Distributor x 5 (Remote Site)

Manufacturer	:	CS Lilin
Model Number	:	PIH-6002
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Shielded, 1.8 m
Power Cord	:	Un-Shielded, 1.8 m

☑ Pattern Generator (Remote Site)

Manufacturer	:	LEADER
Model Number	:	408
Serial Number	:	N/A
FCC ID	:	N/A
Data Cable	:	Shielded, 2.0 m
Power Cord	:	Un-Shielded, 1.8 m

4.3 REMARK : N/A

5 EUT OPERATING CONDITION

5.1 Configure the EUT according to the **EN 61000-6-3**.

5.2 The frequency of the EUT is none.

5.3 Turn on all the power of EUT and peripheral.

5.4 Remote pattern generator sends color bar signal to EUT.

5.5 Observe the output signal of EUT during the test. (For EMS testing)

5.6 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 III.

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 III.

7.4 Temperature : 29 ℃, Humidity : 63 % RH.

7.5 Deviation form the test standards and rules : None.

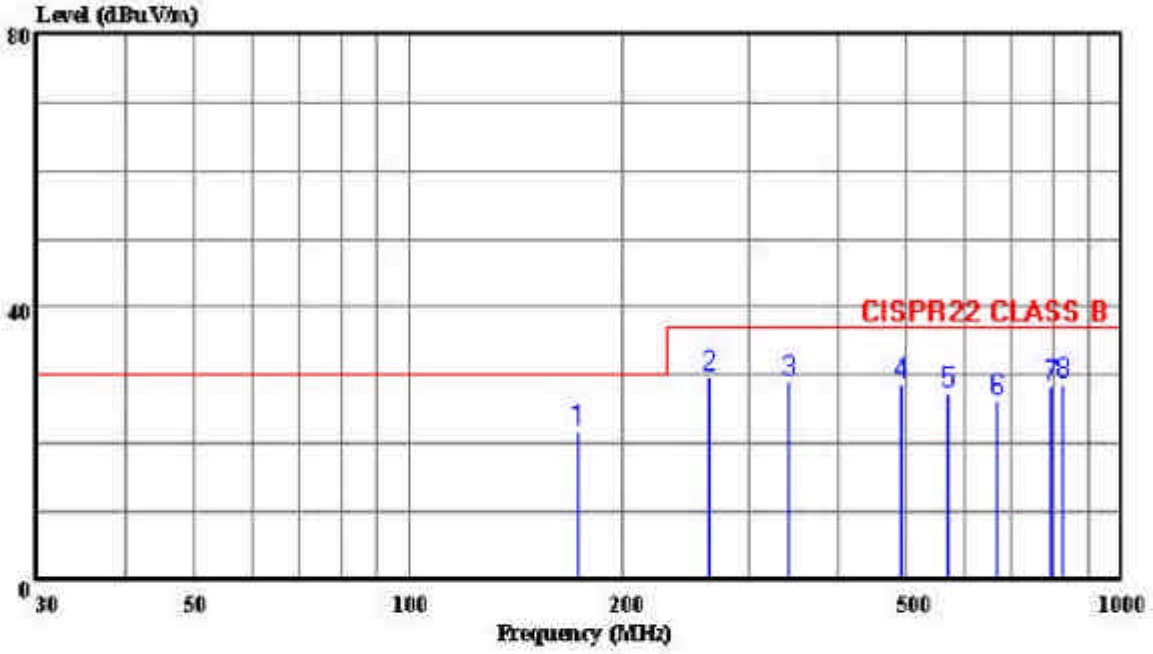
7.6 The radiated emission result were gained by the following method :
Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor
Over Limit = Level – Limit Line

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#: 4f051.emi Date: 2005-07-06 Time: 10:53:01



Trace: Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2611 060705 HORIZONTAL
eut : Twisted Pair Transmission
power: 230V/50Hz
memo : TTP414XXX

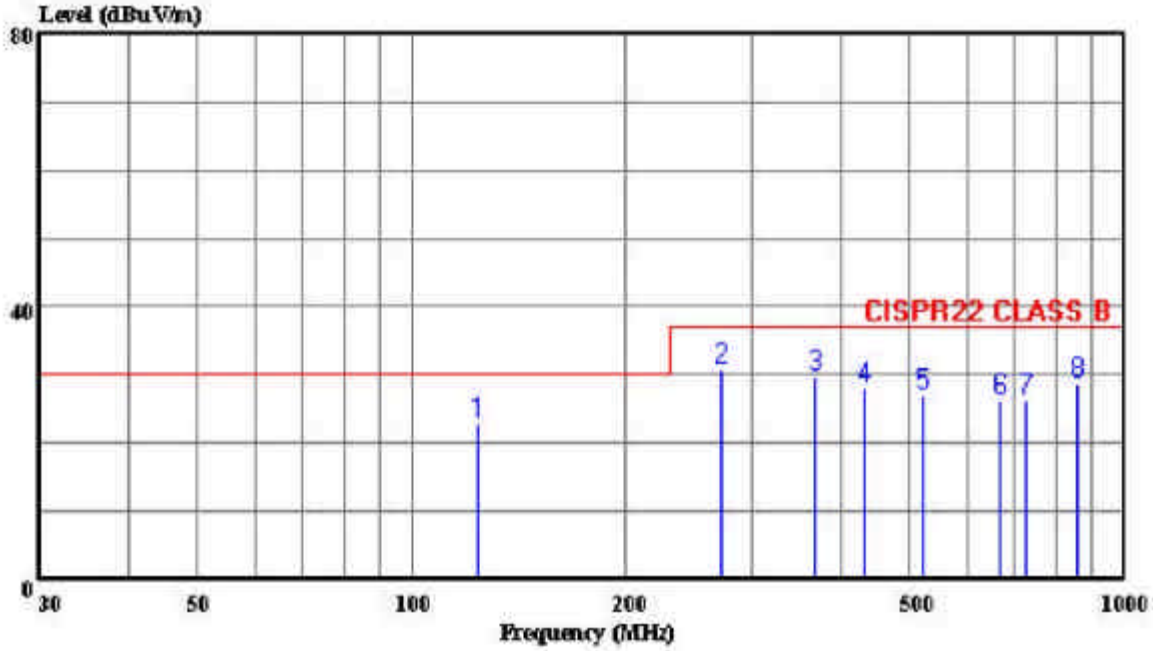
Page: 1

	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	172.973	21.98	30.00	-8.02	41.29	8.42	1.73	29.47	Peak
2	263.700	29.78	37.00	-7.22	44.39	12.64	2.31	29.56	Peak
3	340.433	29.25	37.00	-7.75	41.70	14.17	2.72	29.34	Peak
4	491.927	28.91	37.00	-8.09	36.71	17.23	3.47	28.50	Peak
5	572.487	27.22	37.00	-9.79	33.05	19.59	3.73	28.14	Peak
6	668.407	26.23	37.00	-10.77	31.35	18.94	4.02	28.07	Peak
7	795.413	28.29	37.00	-8.71	30.72	20.11	4.55	27.09	Peak
8	830.507	28.62	37.00	-8.38	30.54	20.46	4.66	27.04	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#: 4f051.emi Date: 2005-07-06 Time: 10:26:48



Trace: Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2611 060705 VERTICAL
eut : Twisted Pair Transmission
power: 230V/50Hz
memo : TTP414XXX

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	123.740	22.97	30.00	-7.03	39.11	11.58	1.45	29.19	Peak
2	272.073	30.77	37.00	-6.23	45.22	12.74	2.36	29.55	Peak
3	368.967	29.81	37.00	-7.19	41.20	14.99	2.84	29.22	Peak
4	432.947	28.01	37.00	-8.99	37.55	16.20	3.14	28.88	Peak
5	522.380	27.10	37.00	-9.90	34.00	17.88	3.58	28.36	Peak
6	667.320	26.31	37.00	-10.69	31.43	18.94	4.02	28.07	Peak
7	728.027	26.19	37.00	-10.81	30.11	19.67	4.24	27.83	Peak
8	858.180	28.85	37.00	-8.15	30.46	20.68	4.75	27.03	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).

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).

ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

1 TEST INSTRUMENTS & FACILITIES

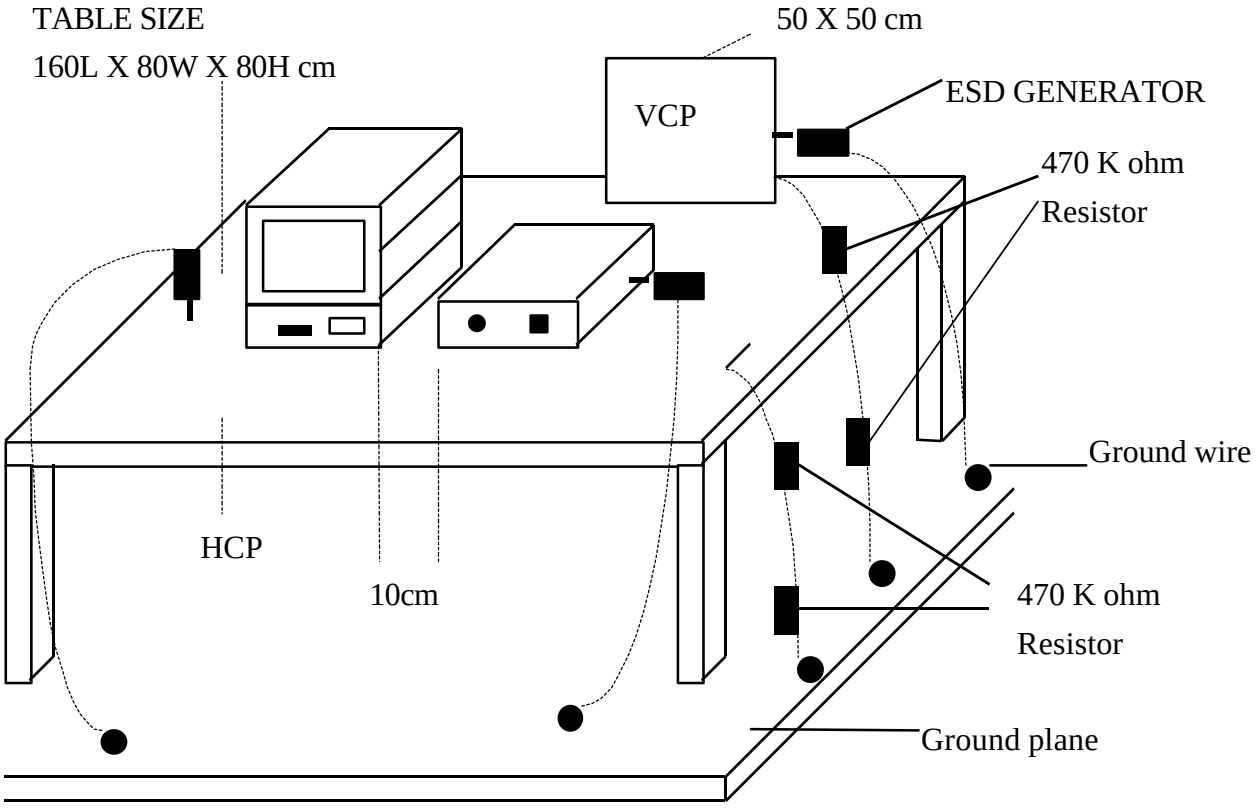
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
ESD TESTER	NOISEKEN	ESS-100L (A)	OCT/2004
VCP	HOMETEK	--	--

2 TEST PROCEDURE

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

According to **EN 50130-4 (1996) + A1 (1998)**

3 TEST SETUP



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

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) ±2, 4, 8KV for air discharge.

(B) ±2, 4, 6KV for contact discharge.

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

6.3 Time between test : ≧1 sec.

6.4 Temperature : 24 ℃

6.5 Humidity : 47 % RH.

7 PERFORMANCE CRITERIA

There shall be no damage, malfunction or change of status due to the conditioning. Flickering of an indicator during the application of the discharges is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change.

The EUT shall meet the acceptance criteria for the functional test, after the conditioning.

8 TEST RESULT

Test Point	Air Discharge	Contact Discharge	Result
HCP	---	±2, 4, 6KV	**PASSED**
VCP	---	±2, 4, 6KV	**PASSED**
CASE	±2, 4, 8KV	±2, 4, 6KV	**PASSED**
I/O PORTS	±2, 4, 8KV	±2, 4, 6KV	**PASSED**

There is no significant changes during the test.

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/2005
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/2005
6	RF PROBE	BOONTON	952001B 37082	MAR/2005
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.

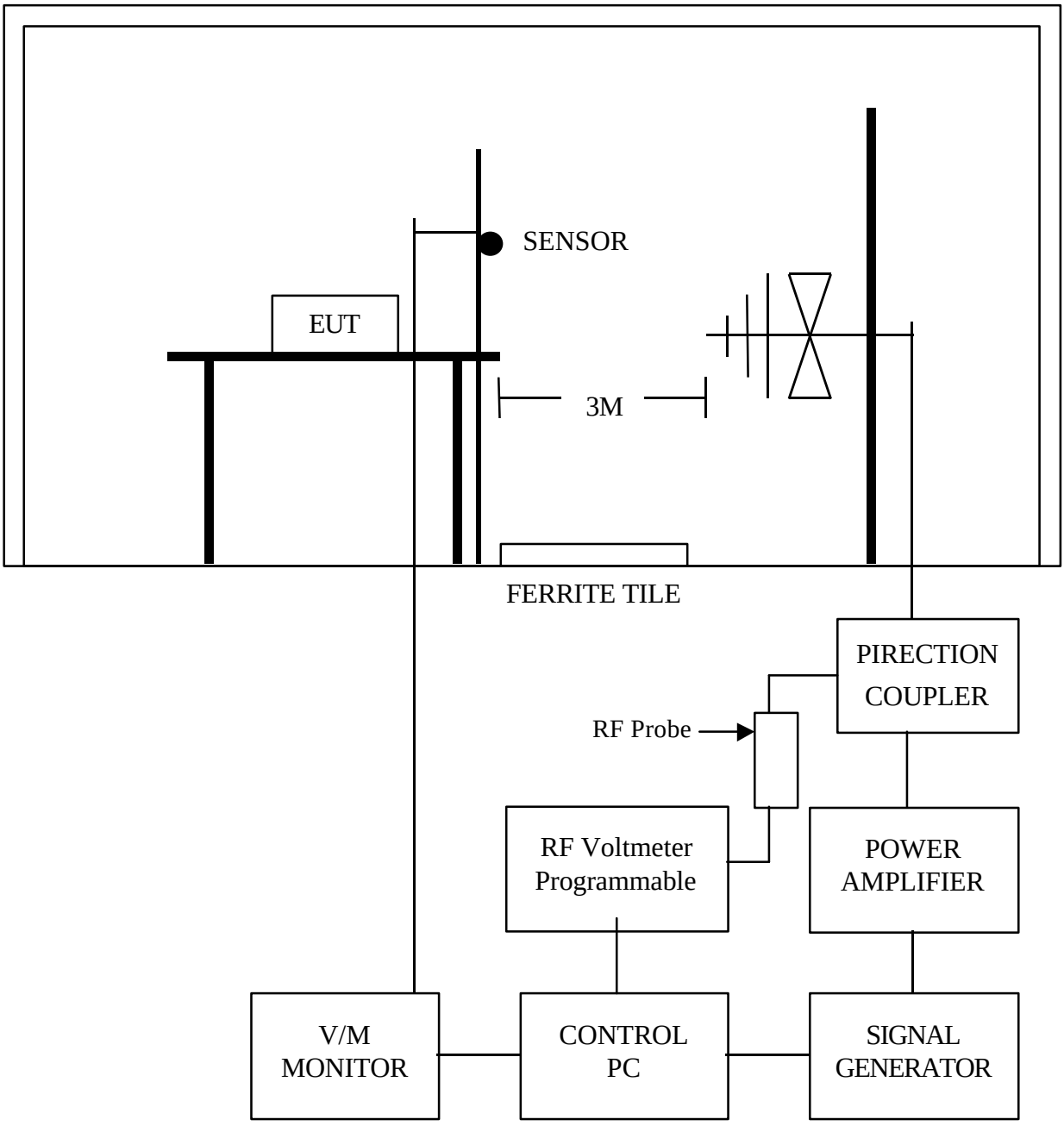
2 TEST PROCEDURE

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

According to **EN 50130-4 (1996) + A1 (1998)**

3 TEST SETUP

FERRITE TILE



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 "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 : 80 MHz ~ 1000 MHz

6.2 Filed Strength : 10 V / M (1KHz 80% Sinusoidal amplitude modulation)
10 V / M (1KHz 0.5s on : 0.5s off pulse 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 : 27 ℃

6.7 Humidity : 61 % RH

7 PERFORMANCE CRITERIA

There shall be no damage, malfunction or change of status due to the conditioning. Flickering of an indicator during the conditioning is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change, and no such flickering of indicators occurs at a field strength of 3 V/m.

For components of CCTV system, where the status is monitored by observing the TV picture, then deterioration of the picture is allowed at 10 V/m, providing :

a There is no permanent damage or change to the EUT (e.g. no corruption of memory or changes to programmable setting etc.);
b At 3 V/m, any deterioration of the picture is so minor that the system could still be used;
c There is no observable deterioration of the picture at 1 V/m.

The EUT shall meet the acceptance criteria for the functional test, after the conditioning.

8 TEST RESULT

ANT / SIDE	HORIZONTAL	VERTICAL
FRONT	PASSED	PASSED
REAR	PASSED	PASSED
RIGHT	PASSED	PASSED
LEFT	PASSED	PASSED

9 Photos of test configuration please refer to appendix A.

ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT)

1 TEST INSTRUMENTS & FACILITIES

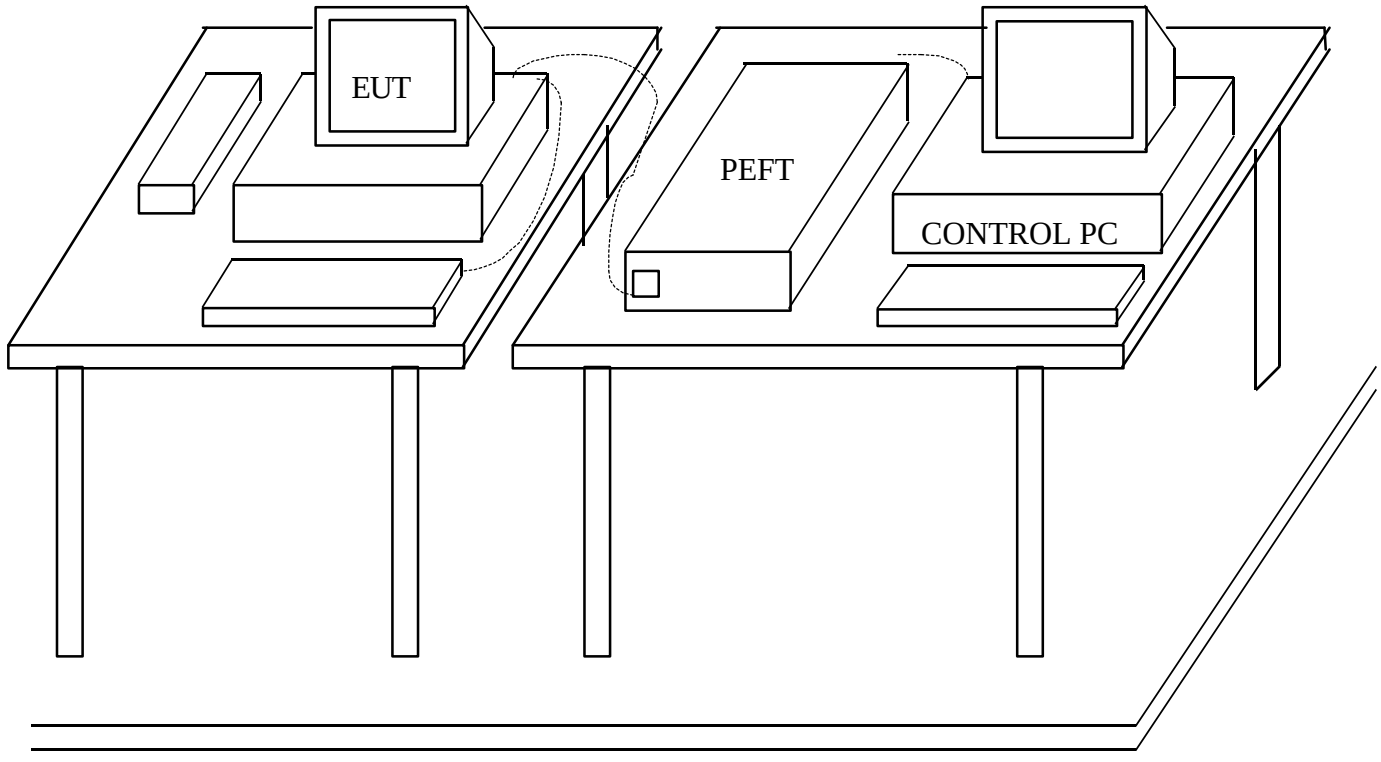
Instruments/ Facilities	Manufacturer	Model # Serial #	Data Of Cal.
BURST-TESTER	HAEFELY	PEFT/JUNIOR	FEB/2005
CONTROL PC	KB TECH	KB P586/133	--

2 TEST PROCEDURE

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

According to **EN 50130-4 (1996) + A1 (1998)**

3 TEST SETUP



GROUND PLANE

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

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 of Power Line : ±0.5KV, ±1KV, ±2KV

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

6.6 Test Voltage of Signal Control Line : ±0.25KV, ±0.5KV, ±1KV

6.7 Temperature : 26 ℃

6.8 Humidity : 57 % RH

7 PERFORMANCE CRITERIA

There shall be no damage, malfunction or change of status due to the conditioning. Flickering of an indicator during the application of the bursts is permissible, providing that there is no residual change in the EUT or any change in outputs, which could be interpreted by associated equipment as a change.

The EUT shall meet the acceptance criteria for the functional test, after the conditioning.

8 TEST RESULT

Power Line :

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

Signal Control Line :

TEST VOLTAGE	PERFORMACE CRITERIA
±0.25KV	✓
±0.5KV	✓
±1KV	✓

8.1 Final Result : PASSED

8.2 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 50130-4 (1996) + A1 (1998)**

2 RESULT OF SURGE IMMUNITY TEST

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

IMMUNITY TEST TO CS CONDUCTED DISTURBANCE

1 TEST PROCEDURE

According To **ENV 50141 (1993)**

According To **EN 50130-4 (1996) + A1 (1998)**

2 RESULT OF IMMUNITY TEST TO CS CONDUCTED DISTURBANCE

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

VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST AND MAIN SUPPLY VARIATIONS

1 TEST PROCEDURE

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

According To **EN 50130-4 (1996) + A1 (1998)**

2 RESULT OF VOLTAGE DIPS, SHORT INTERRUPTIONS IMMUNITY TEST AND MAIN SUPPLY VARIATIONS

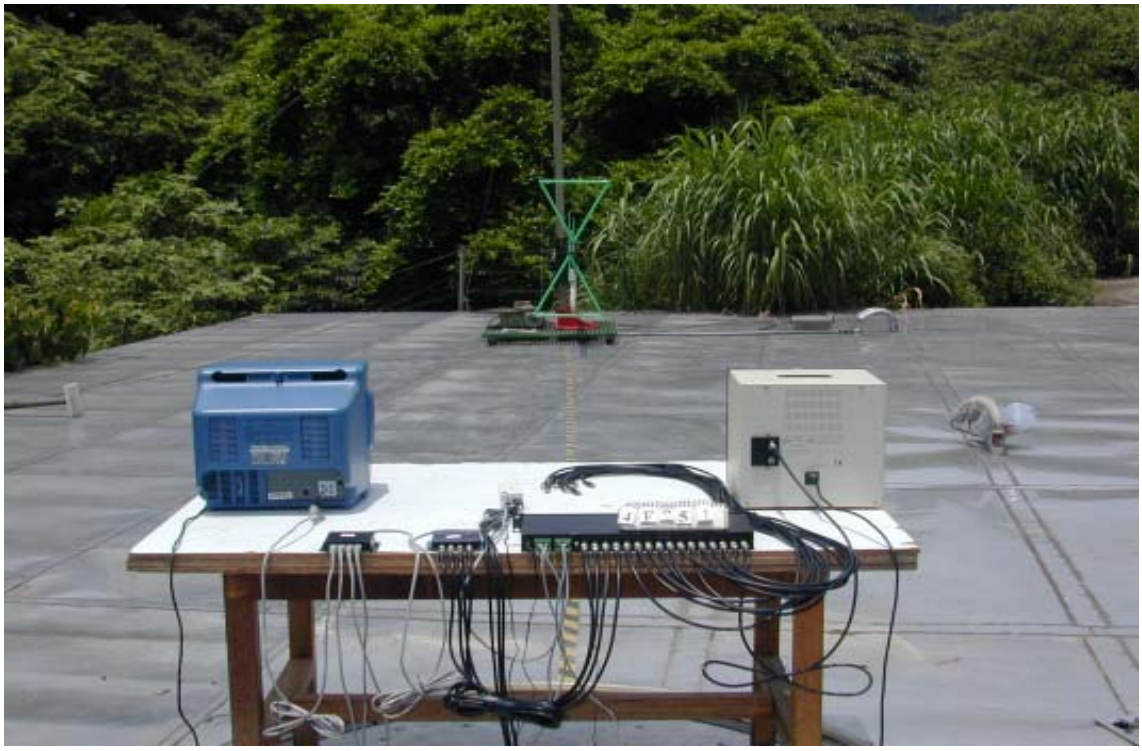
N/A (This standard is not applicable to this EUT).

Appendix A

PHOTOS OF TEST CONFIGURATION

PHOTO OF RADIATED EMISSION TEST

Front View



Rear View

PHOTO OF ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST

PHOTO OF ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

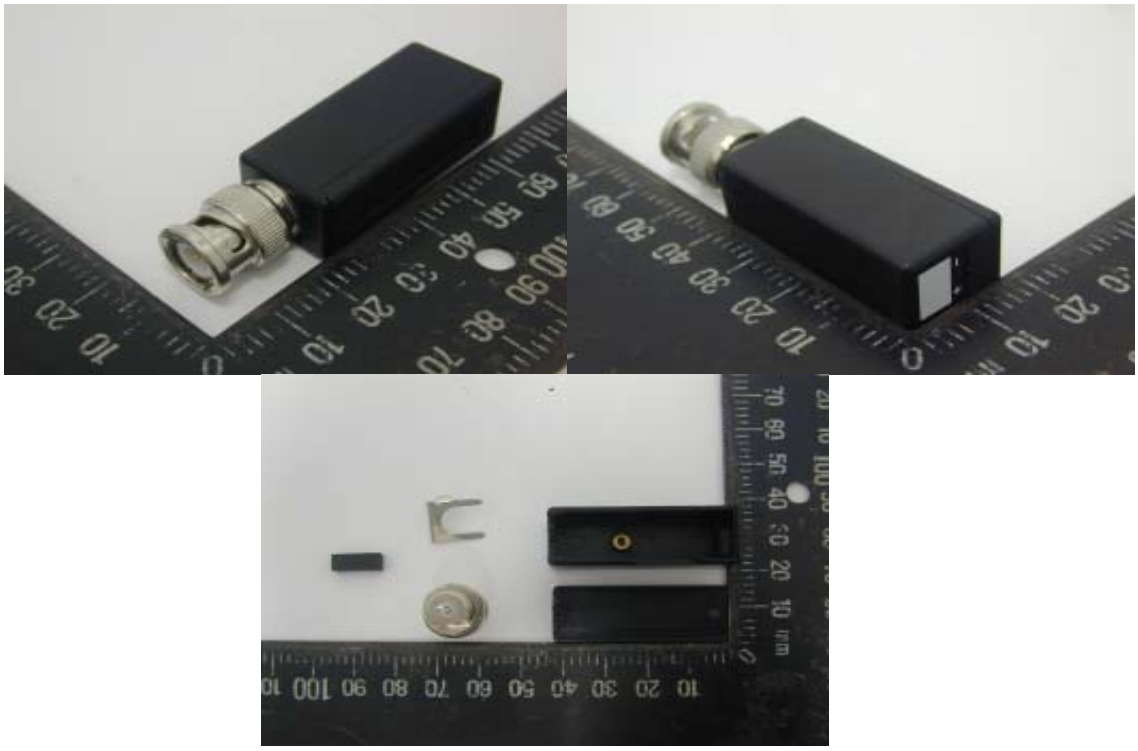
PHOTO OF RADIO FREQUENCY ELECTROMAGNETIC FILE IMMUNITY TEST (RS)

Appendix B

PHOTOS OF EUT

PHOTO OF EUT

Model : TTP111XXX

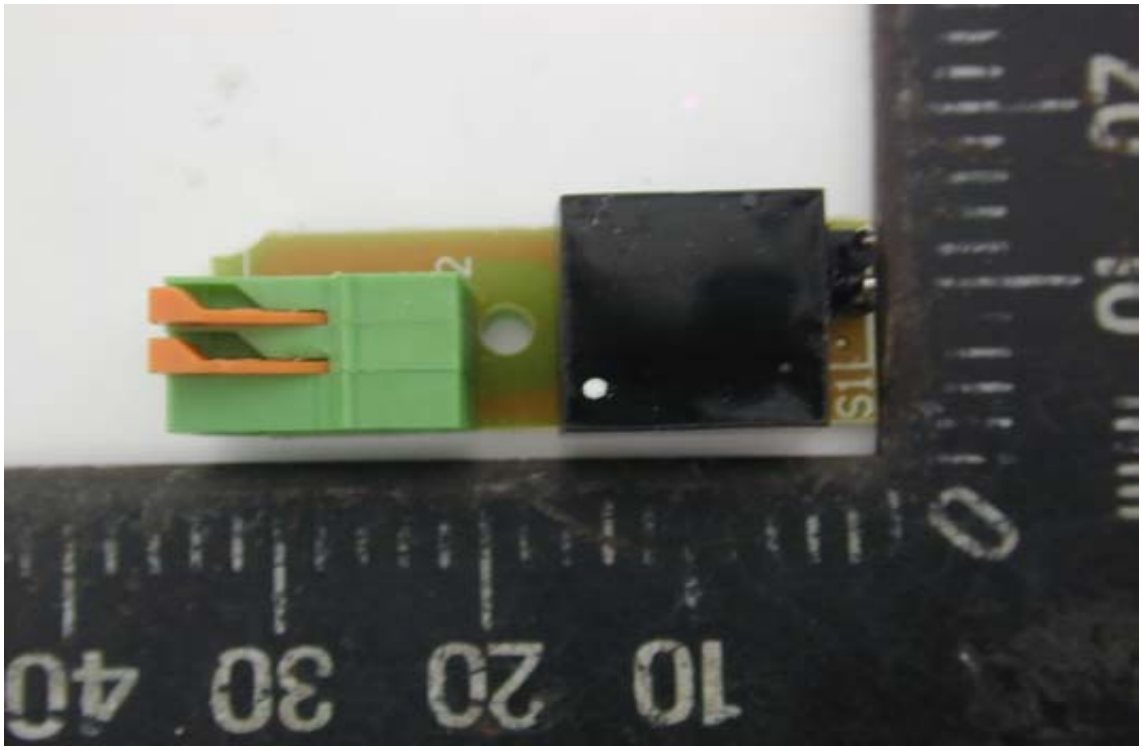


Full View of EUT

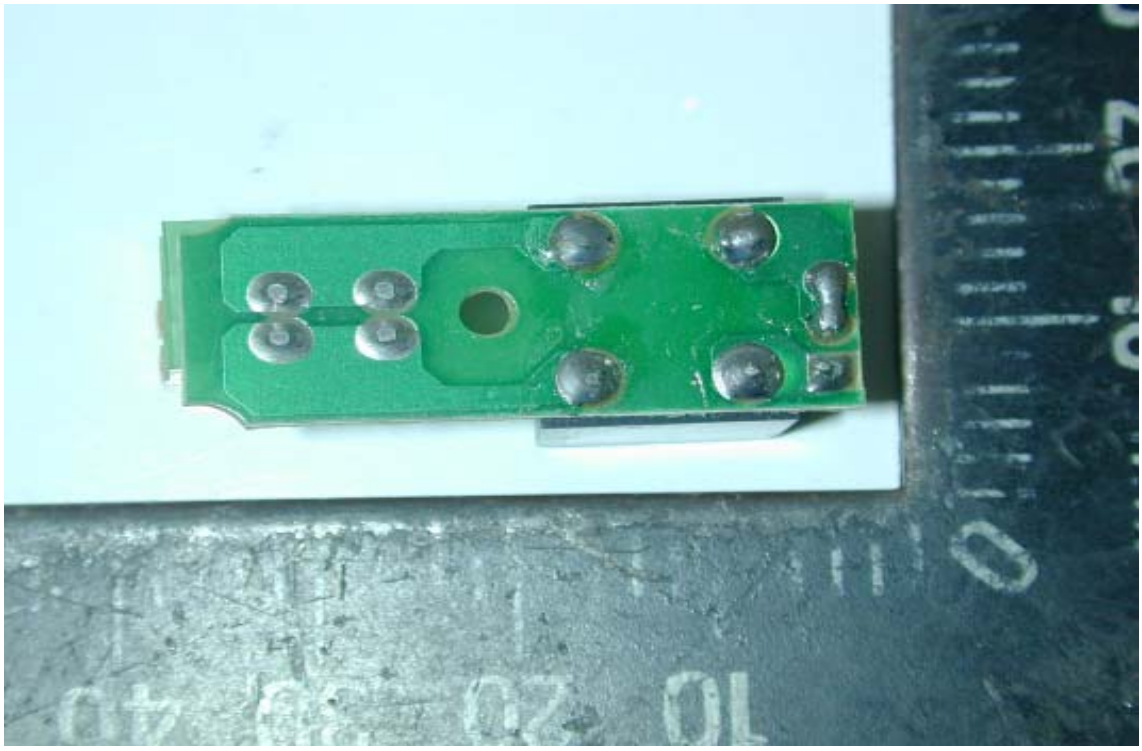
Case Inside View of EUT

PHOTO OF EUT

Model : TTP111XXX



Component Side of Main Board



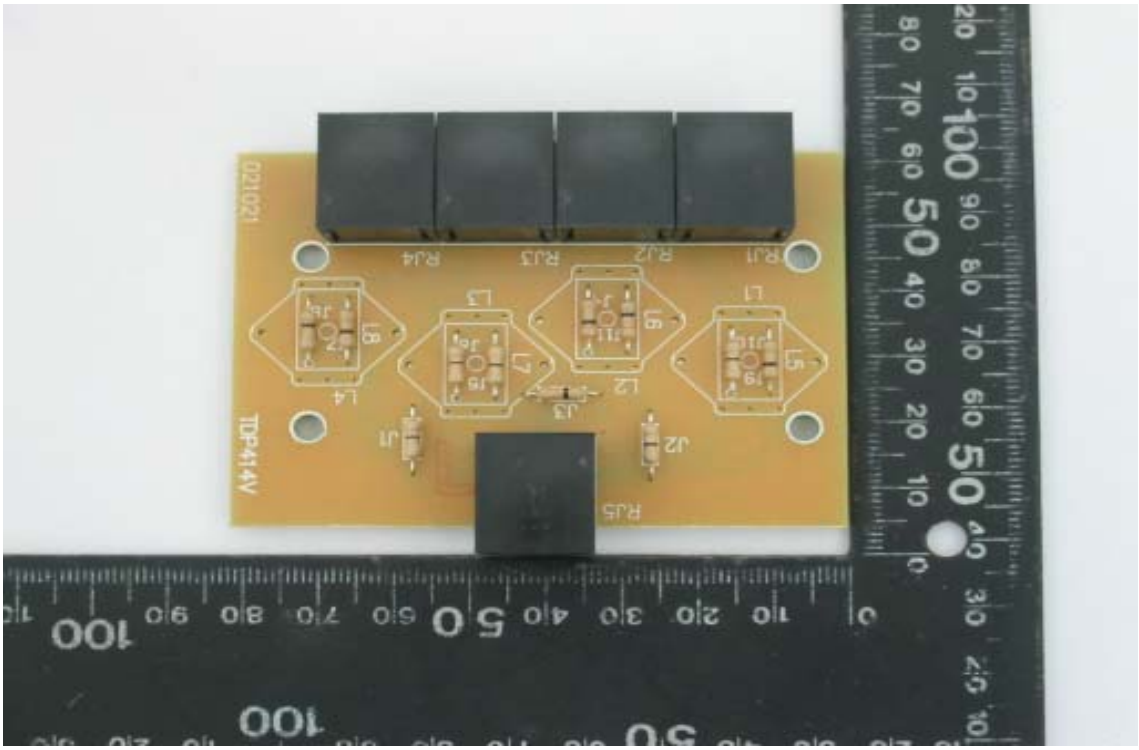
Solder Side of Main Board

PHOTO OF EUT

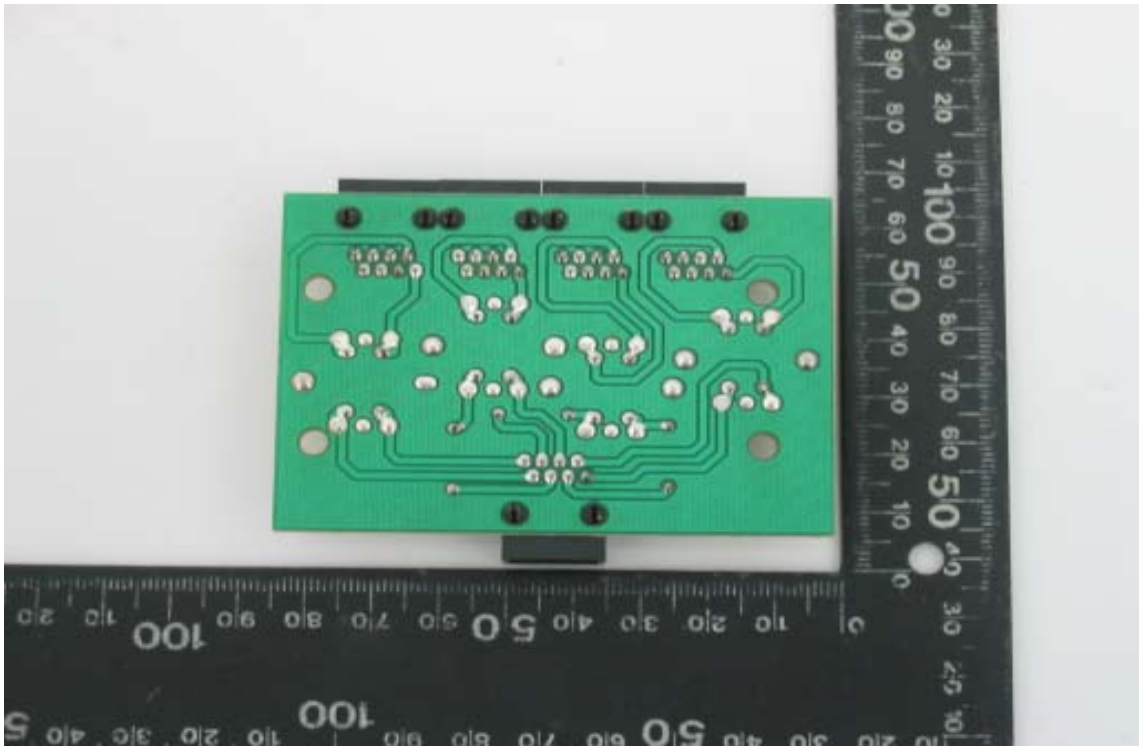
Model : TTP414XXX

PHOTO OF EUT

Model : TTP414XXX



Component Side of Main Board



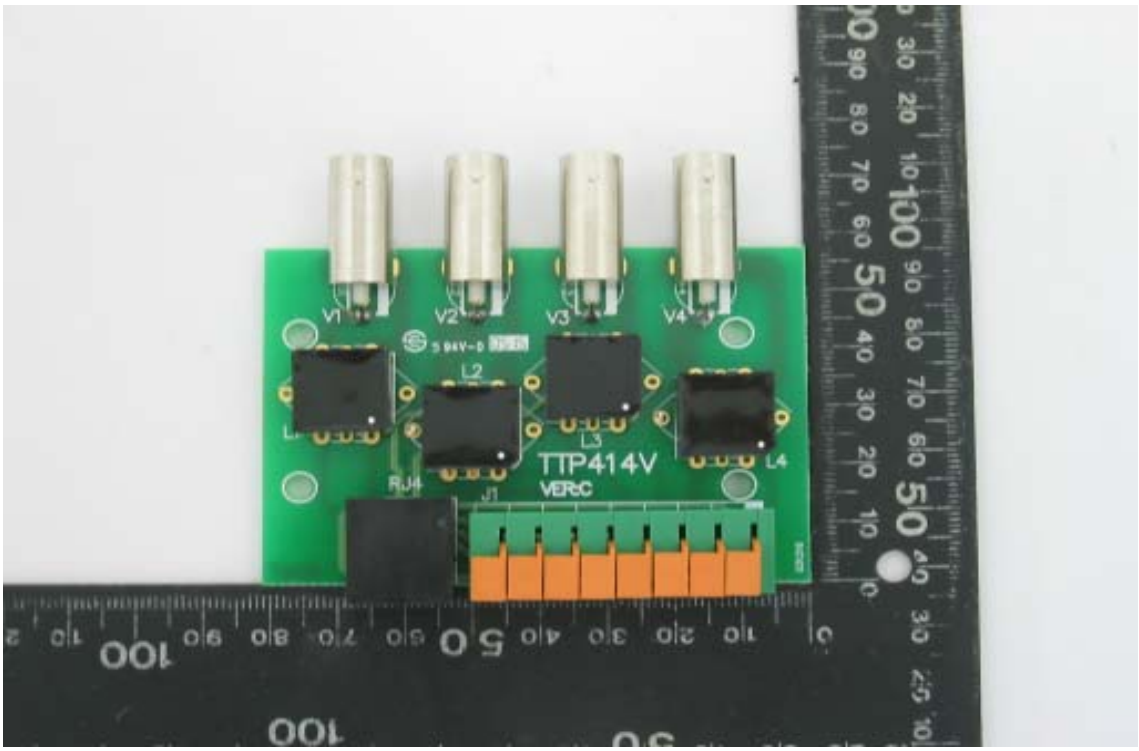
Solder Side of Main Board

PHOTO OF EUT

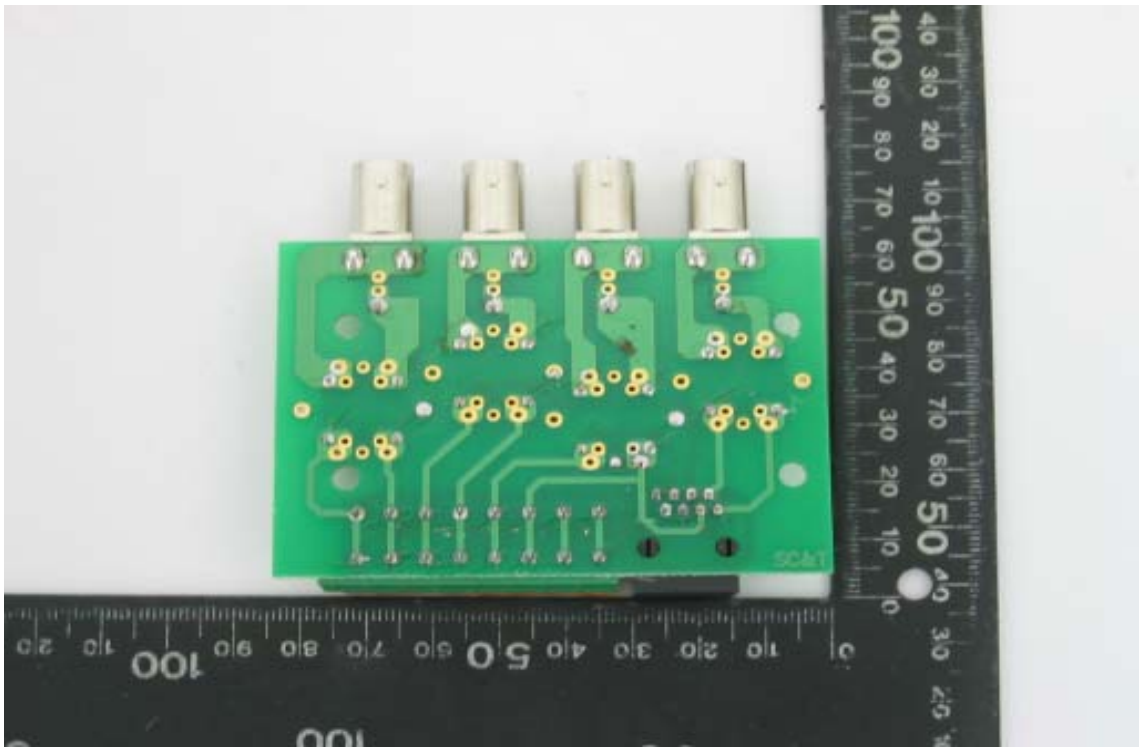
Model : TDP414XXX

PHOTO OF EUT

Model : TDP414XXX



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 : Twisted Pair Transmission

Model No. : TTP111XXX, TTP414XXX, TDP414XXX

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

☑ EN 61000-6-3 (2001)

- ☑ CISPR 22 Class B (1997)
- ☑ EN 61000-3-2 (2000)
- ☑ EN 61000-3-3 (1995) + A1 (2001)

☑ EN 50130-4 (1996) + A1 (1998)

- ☑ IEC 61000-4-2 (2001)
- ☑ IEC 61000-4-3 (2002)
- ☑ IEC 61000-4-4 (2004)
- ☑ IEC 61000-4-5 (2001)
- ☑ ENV 50141 (1993)
- ☑ IEC 61000-4-11 (2004)

following the provisions of 89/336/EEC Directive

Place: _____ Signature: _____

Date : _____ Full name: _____

CE Title: _____

EB4F051

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. : 10012161-2004 **Valid until : Febuary 14, 2006**

TÜV Rheinland Taiwan Ltd.
Taipei, December 21, 2004

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. : 10012161-2004

Taipei, December 21 , 2004

Dipl.-Ing. Bodo Kretzschmar
Product Safety and Quality