



HomeTek Technology Inc.

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Taipei Hsien, Taiwan

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# FCC TEST REPORT FOR

|           |  |
|-----------|--|
| APPLICANT | : <u>SMART CABLING &amp; TRANSMISSION CORP.</u>  |
| ADDRESS   | : <u>10F, No. 493, Chung-Cheng Rd.,</u><br><u>Hsin Tien City, Taipei 231, Taiwan, R. O. C.</u> |
| EUT       | : <u>CAT5 AV Multimedia Transmission</u>   |
| MODEL NO. | : <u>TPPXXCVB</u>  |



Accredited by the National Voluntary Laboratory Accreditation Program  
for the specific scope of accreditation under Lab Code 200331-0

### MEASUREMENT PROCEDURE USED

FCC RULES AND CISPR 22-1997 AND FCC / ANSI C63.4-2003

### PREPARED BY :

HomeTek Technology Inc.

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

Taipei Hsien. Taiwan

Report # : FD5F023



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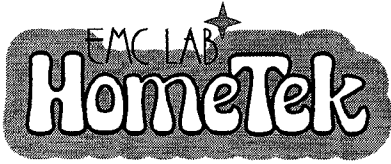
**SAMPLE OF FCC DOC LABEL 2** ..... 21

**APPENDIX A**

PHOTOS OF TEST CONFIGURATION

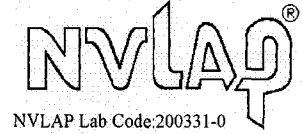
**APPENDIX B**

PHOTOS OF EUT



HomeTek Technology Inc.

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Declaration of Conformity
for
FCC Part 15, Subpart B Class B

APPLICANT : SMART CABLING & TRANSMISSION 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: 06/22/2006
EUT : CAT5 AV Multimedia Transmission
MODEL NO. : TTPXXCVB

MEASUREMENT PROCEDURE USED :
PART 15 SUBPART B FCC RULES AND CISPR 22-1997
AND FCC / ANSI C63.4-2003
TEST PROCEDURE AND DATA ARE TRACEABLE TO NIST/USA,
TL or NML/TAIWAN.

- THE MAXIMUM EMISSION LEVELS WERE COMPARED TO THE CISPR 22 CLASS B LIMITS BOTH RADIATED AND CONDUCTED EMISSION.
THE ABOVE DEVICE WAS TESTED BY HOMETEK TECHNOLOGY INC. TO SHOWS THE MAXIMUM EMISSION LEVEL FROM THE DEVICE.
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.
THE REPORT MUST NOT BE USED BY THE CLIENT TO CLAIM PRODUCT ENDORSEMENT BY NVLAP OR ANY AGENCY OF THE U. S. GOVERNMENT.
THE TEST RESULTS ARE TRACEABLE TO THE NATIONAL OR INTERNATIONAL STANDARD.

APPROVED BY : Albert Tsai 06/28/2006
ALBERT TSAI / Senior Engineer

## GENERAL INFORMATION

- 1 APPLICANT : SMART CABLING & TRANSMISSION CORP.
- 2 ADDRESS : 10F, No. 493, Chung-Cheng Rd.,  
Hsin Tien City, Taipei 231, Taiwan, R. O. C.
- 3 MANUFACTURER : SMART CABLING & TRANSMISSION 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
- FCC ID : N/A
- Model Number : TTPXXCVB
- Serial # : N/A

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

T T P X X X C V B

(1) The first and second “X” represent different system input.

(2) The latter “X” represent different accessory.

The PCB layout is similar. The worst case of model is TTP111CVB, and the final test data were shown in this test report.

- 6 FEATURES OF EUT :

**Please refer to user manual or product specification.**



HomeTek Technology Inc.

## **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 **ANSI C63.4 – 2003 & CISPR 22.**

### **2 RESULT OF CONDUCTED EMISSION TEST**

N/A (Conducted Power Line Test is not applicable to this EUT ( Model : TTP111CVB)).

## 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     | <input checked="" type="checkbox"/> OATS 3 |                 |                        | JUL/2005     |
| 2    | EMI TEST RECEIVER       | 20Hz ~ 26.5GHz                             | ROHDE & SCHWARZ | ESMI<br>845442/006     | FEB/2006     |
| 3    | PRE-AMPLIFIER           | 9KHz ~ 3000MHz                             | ADVANTEST       | BB525C<br>90081001     | OCT/2005     |
| 4    | ANTENNA (BI-LOG)        | 25MHz ~ 2GHz                               | SCHAFFNER       | CBL6112B<br>S/N : 2614 | JUN/2006     |
| 5    | Attenuation             | 50Ω/6dB                                    | JYE BAO         | FAT-N (M-F)<br>001     | JUL/2005     |
| 6    | Cable                   | 10m  | SUHNER          | RG214/U<br>OS3-003     | DEC/2005     |
| 7    | Cable                   | 14m  | BELDEN          | 9913<br>OS3-001        | DEC/2005     |
| 8    | EMI 32 (software)       | N/A  | AUDIX           | 19991013-0923          | N/A          |

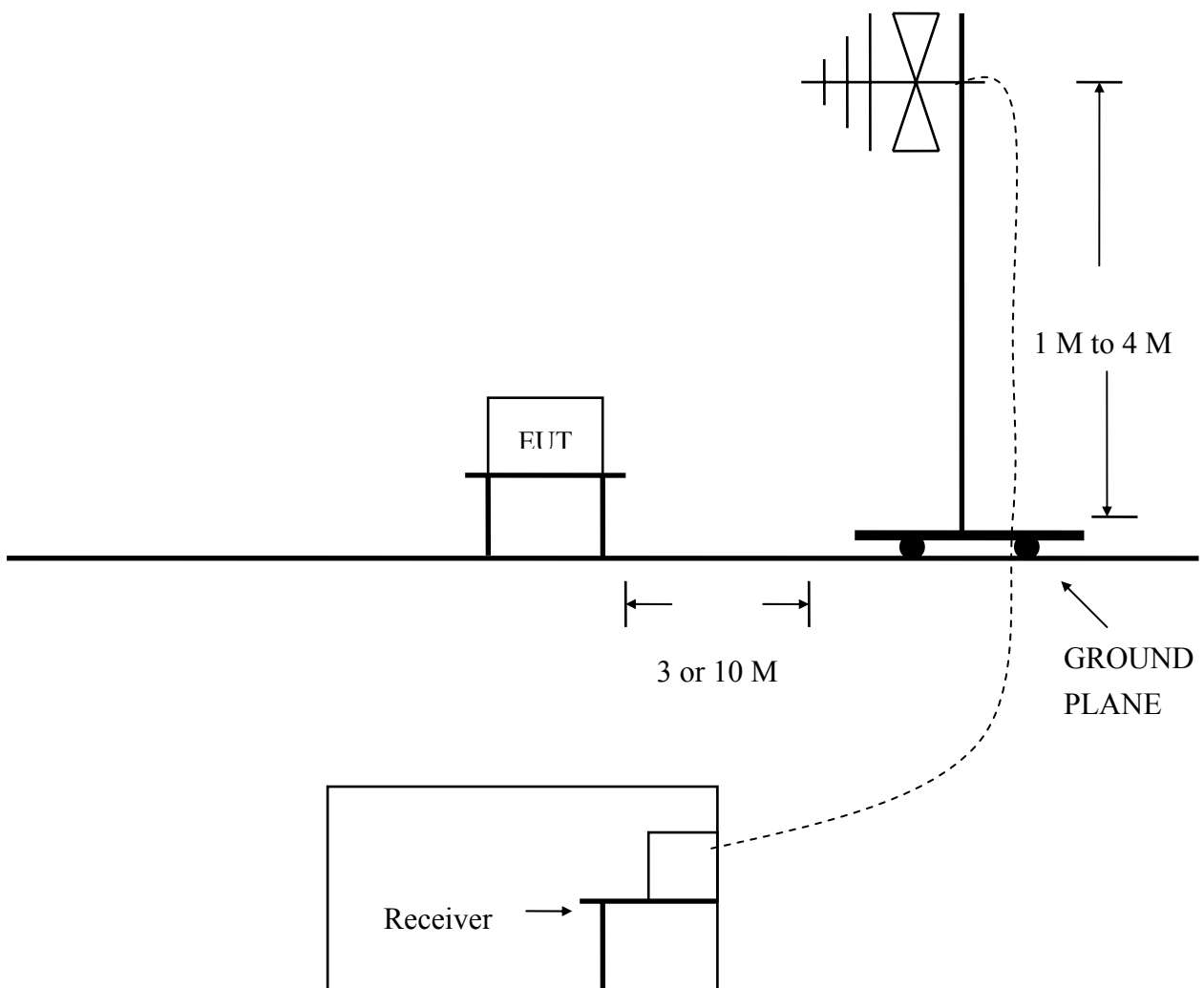
Note : Items 1 ~ 7 were calibrated within period of 1 year.

## 2 TEST PROCEDURE

- 2.1 The EUT was test according to **ANSI C63.4 – 2003 Section 5.4, 5.5, 8.1, 8.2, 8.3 & CISPR 22 - 1997 & C18-01-11 (HomeTek test procedure)**.
- 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

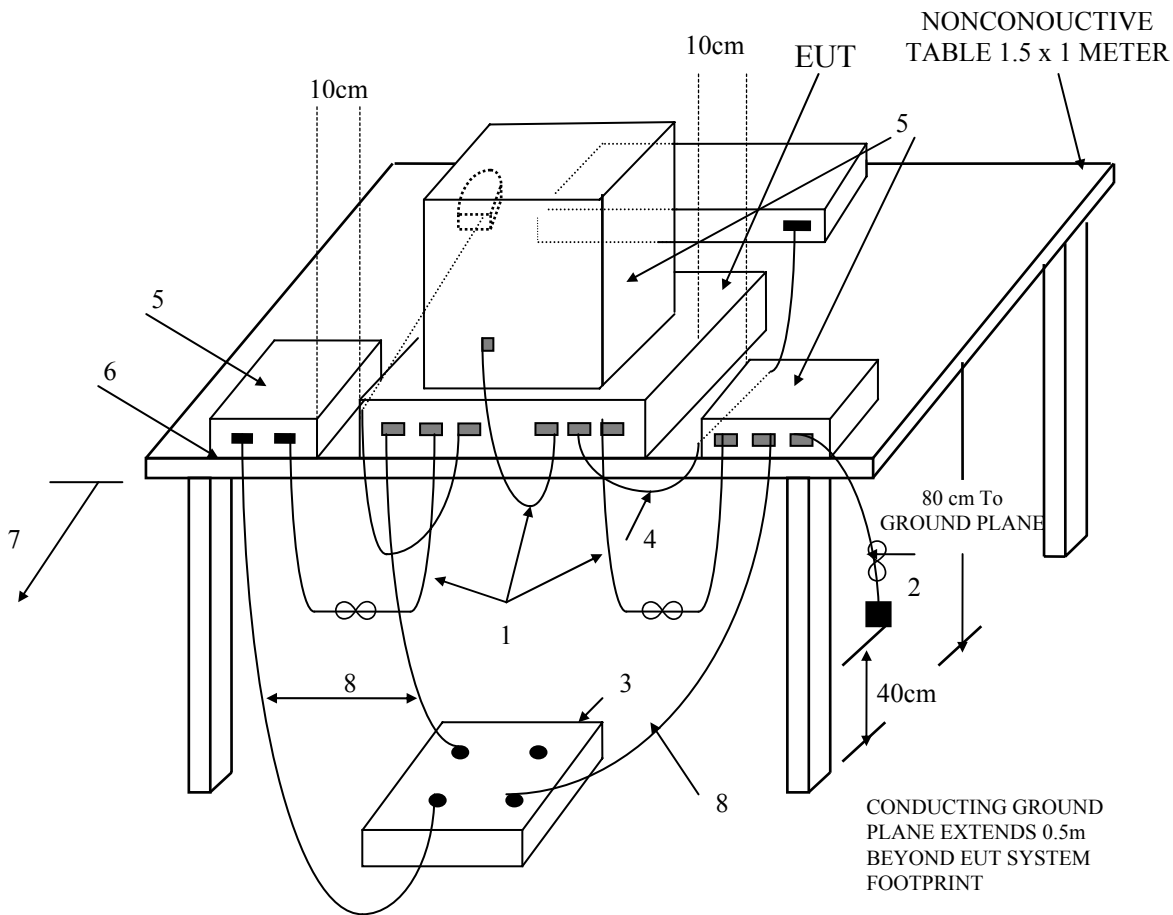
### 3.1 TEST SETUP OF OPEN SITE.



### 3.2 TEST SETUP OF EUT

ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE RANGE OF 9kHz TO 40 GHz

ANSI  
C63.4-2003



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

**LEGEND:**

1. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between ground plane and table.
2. I/O cables that are connected to a peripheral shall be bundled in center. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1m.
3. If LISNs are kept in the test setup for radiated emissions, it is preferred that they be installed under the ground plane with the receptacle flush with the ground plane.
4. Cables of hand-operated devices, such as keyboards, mice, etc., have to be placed as close as possible to the controller.
5. Non-EUT components of EUT system being tested.
6. The rear of all components of the system under test shall be located flush with the rear of the table.
7. No vertical conducting wall used.
8. Power cords drape to the floor and are routed over to receptacle.

**Test Configuration**  
**Tabletop Equipment Radiated Emission**

#### 4 CONFIGURATION OF THE EUT

The EUT was configured according to **ANSI C63.4 - 2003 & CISPR 22 - 1997**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :

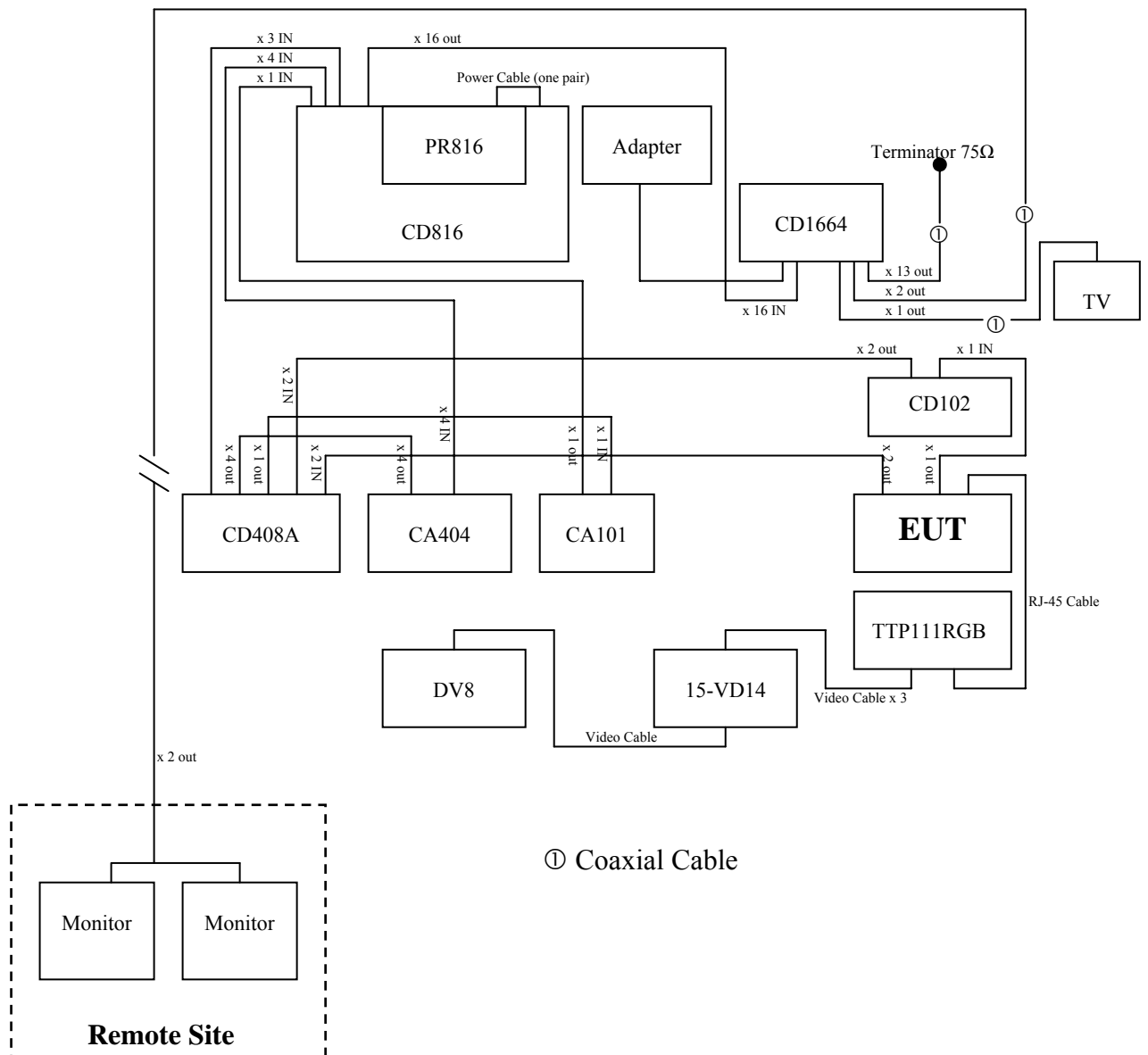


Figure 1



#### 4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production  
Condition when received : Good Damage : \_\_\_\_\_  
Device : CAT5 AV Multimedia Transmission  
Applicant : SMART CABLING & TRANSMISSION CORP.  
Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : TTPXXXCVB  
Serial Number : N/A  
FCC ID : N/A  
RJ-45 Port : Plastics Type Connector  
Video Output Port x 3 : Metal Type Connector  
Power Cord : N/A  
Power Supply Type : N/A

#### 4.2 PERIPHERALS

DV8

Manufacturer : SONY  
Model Number : DCR-PC110  
Serial Number : 1158142  
FCC ID : FCC DoC  
Data Cable : Shielded, 1.8 m, Connected to the coaxial port  
Power Cord : N/A



Video Distribution Amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CD1664  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Shielded, 1.0 m, Connected to the coaxial port  
Power Cord : Un-Shielded, 1.8 m

Video Distribution Amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CD102  
Serial Number : N/A  
FCC ID : N/A  
Data Cable x 1 : Shielded, 1.8 m, Connected to the Video Output Port  
Power Cord : Un-Shielded, 1.8 m

Video Amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CA101  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Shielded, 1.0 m, Connected to the coaxial port  
Power Cord : Un-Shielded, 1.8 m



Video Distribution Amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CD408A  
Serial Number : N/A  
FCC ID : N/A  
Data Cable x 2 : Shielded, 1.8 m, Connected to the Video Output Port  
Power Cord : Un-Shielded, 1.8 m

Video Distribution Amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CD816  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Shielded, 1.0 m, Connected to the coaxial port  
Power Cord : Un-Shielded, 1.8 m

Power Center

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : PR816  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : N/A  
Power Cord (AC) : Un-Shielded, 1.8 m  
Power Cord (DC) : Un-Shielded, 0.2 m



CAT5 AV Multimedia Transmission

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : TTP111RGB  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Un-Shielded, 1.0 m, Connected to the RJ-45 Port  
Power Cord : N/A

Video Amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CA404  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Shielded, 1.0 m, Connected to the coaxial port  
Power Cord : Un-Shielded, 1.8 m

Terminator

Manufacturer : HomeTek  
Model Number : 75Ω  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Shielded, 1.8 m, Connected to the coaxial port  
Power Cord : N/A



TV

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

Video Distributor

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : 15-VD14  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : Shielded, 1.8 m, Connected to the coaxial port  
Power Cord : Un-Shielded, 1.8 m

Adapter for CD1664

Manufacturer : YUH NIAN  
Model Number : HPA-501242U3 A3  
Serial Number : N/A  
FCC ID : N/A  
Data Cable : N/A  
Power Cord (AC) : Un-Shielded, 1.8 m  
Power Cord (DC) : Shielded, 1.0 m



Monitor x 2 (Remote Site)

Manufacturer : SMART CABLING & TRANSMISSION CORP.

Model Number : MT14A

Serial Number : N/A

FCC ID : N/A

Data Cable : Shielded, 10 m, Connected to the coaxial port

Power Cord : Un-Shielded, 1.8 m

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 III.
- 5.3 The operation condition of EUT, Please refer to section 4.
- 5.4 Support unit 1 represent Video Distributor(15-VD14).  
Support unit 2 represent CAT5 AV Multimedia Transmission(TTP111RGB).  
Support unit 3 represent Video Distribution Amplifier(CD102).  
Support unit 4 represent Video Distribution Amplifier(CD408A).  
Support unit 5 represent Video Amplifier(CA404).  
Support unit 6 represent Video Amplifier(CA101).  
Support unit 7 represent Video Distribution Amplifier(CD816).  
Support unit 8 represent Video Distribution Amplifier(CD1664).
- 5.5 DV gives color Bar signal to Support unit 1 via Video Port.
- 5.6 Support unit 1 is video distributors with one video input to three video output and transmits the signal to Support unit 2 via three video ports.
- 5.7 Support unit 2 transforms three video signals(input) into CAT 5 signal(output) then Support unit 2 transmits CAT 5 signal to EUT via one CAT 5 UTP cable.
- 5.8 EUT transforms CAT 5 signal(input) into three video signals(output) then EUT transmits video signal to Support unit 3 via one coaxial cable and Support unit 4 via two coaxial cable.
- 5.9 Support unit 3 is video distributors with one video input to two video output and transmits the signal to Support unit 4 via two video ports.
- 5.10 Support unit 4 receives four video signal through EUT and Support unit 3, then it transforms four video signals(input) into eight video signals(output).
- 5.11 Support unit 4 transmits four video signals to Support unit 5 via four coaxial cables.
- 5.12 Support unit 4 transmits one video signal to Support unit 6 via one coaxial cable.
- 5.13 Support unit 4 transmits three video signals to Support unit 7 via three coaxial cables.
- 5.14 Support unit 5 receives four video signals through Support unit 4 then it transmits and amplifies four video signals(input) to Support unit 7 via coaxial cables.
- 5.15 Support unit 6 receives video signal through Support unit 4 then it transmits and amplifies video signal(input) to Support unit 7 via coaxial cable.
- 5.16 Support unit 7 receives video signal through Support unit 4, Support unit 5 and Support unit 6.
- 5.17 Support unit 7 is video distributors with eight video input to sixteen video output and transmits the signals to Support unit 8 via coaxial cables.
- 5.18 Support unit 8 is video distributors with sixteen video inputs to sixty-four video outputs and transmits one signal to TV via coaxial cables and two signals to remote side (two Monitor) via 10m coaxial cable.
- 5.19 TV displays Color Bar.
- 5.20 Thirteen ports of Support unit 8 connects with terminator (75ohm).
- 5.21 The other ports are verified that they are not high incidence of EMC characteristic.
- 5.22 Measure the emission noise.
- 5.23 The photos of radiated test configuration, please refer to appendix A.**

## 6 LIMIT OF RADIATED EMISSION CLASS B

### CISPR 22

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

- 6.1 The tighter limit shall apply at the edge between two frequency bands.
- 6.2 Measurement distance in meters between the measuring instrument antenna and the closed point of any part of the EUT or peripherals.

## 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 All readings above 1 GHz are average or peak values with resolution bandwidth of 1 MHz
- 7.4 The measurements were made at 10 meters of HomeTek Lab's open site III.
- 7.5 Temperature : 32 °C, Humidity : 47 % RH.
- 7.6 Deviation form the test standards and rules : None
- 7.7 The radiation emission result were gained by the following method :  
 Level = Reading Level + Probe Factor (Antenna Factor) + Cable Loss – Preamp Factor  
 Over Limit = Level – Limit Line
- 7.8 The radiated mission test was passed at minimum margin :  
 Vertical 82.02 MHz/ 24.85 dBuV/m, Antenna Height 1.5 Meter,  
 Turn Table 120 degree, The Model : TTP111CVB.
- 7.9 Result : **PASSED**

8 RADIATED EMISSION TEST DATA (PAGE 1)

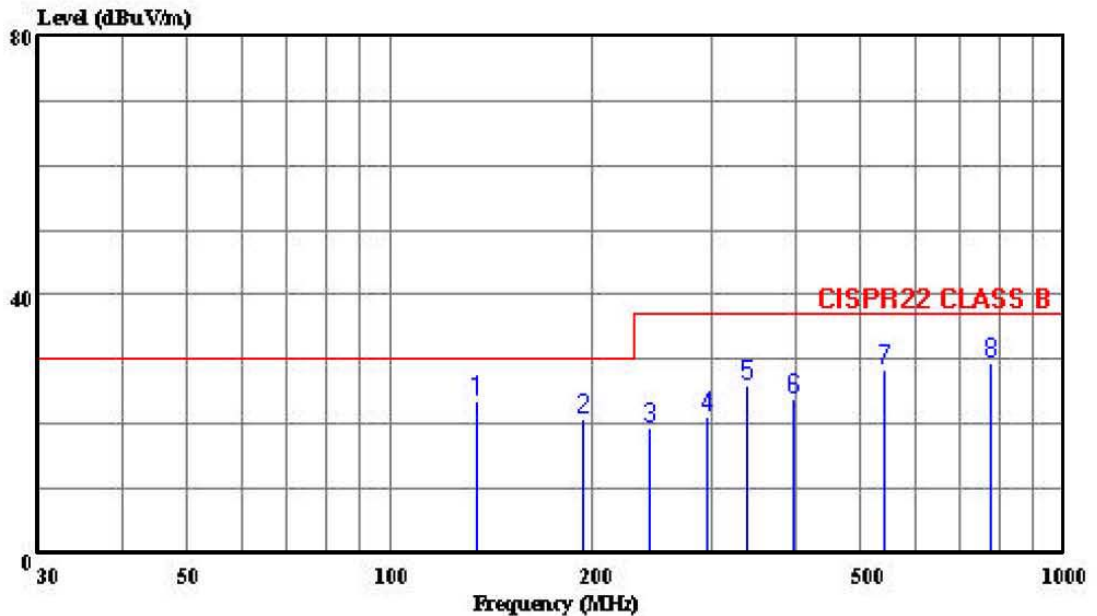


HomeTek Technology Inc.

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 Taipei County, Taiwan R.O.C.  
 Tel: 02-22608375  
 Fax: 02-22748013

Data#: 1 File#: 5F023.EMI

Date: 2006-06-22 Time: 09:00:44



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 HORIZONTAL  
 eut : CAT5 AV Multimedia Transmission  
 power: N/A  
 memo : TTP111CVB

Page: 1

|   | Freq    | Level  | Limit  | Over   | ReadAntenna | Cable  | Preamp |        |        |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|--------|
|   | MHz     | dBuV/m | dBuV/m | Limit  | Level       | Factor | Loss   | Factor | Remark |
|   |         |        |        | dB     | dBuV        | dB/m   | dB     | dB     |        |
| 1 | 134.340 | 23.49  | 30.00  | -6.51  | 36.18       | 11.45  | 1.58   | 25.72  | Peak   |
| 2 | 192.913 | 20.83  | 30.00  | -9.17  | 35.54       | 8.98   | 1.94   | 25.64  | Peak   |
| 3 | 242.740 | 19.33  | 37.00  | -17.67 | 31.10       | 11.66  | 2.14   | 25.58  | Peak   |
| 4 | 296.000 | 20.97  | 37.00  | -16.03 | 31.10       | 13.04  | 2.35   | 25.52  | Peak   |
| 5 | 337.440 | 25.93  | 37.00  | -11.07 | 34.73       | 14.09  | 2.56   | 25.44  | Peak   |
| 6 | 397.940 | 23.89  | 37.00  | -13.11 | 30.79       | 15.55  | 2.88   | 25.33  | Peak   |
| 7 | 539.447 | 28.33  | 37.00  | -8.67  | 31.22       | 18.44  | 3.47   | 24.80  | Peak   |
| 8 | 779.333 | 29.44  | 37.00  | -7.56  | 29.32       | 19.70  | 4.26   | 23.85  | Peak   |



9 RADIATED EMISSION TEST DATA (PAGE 2)

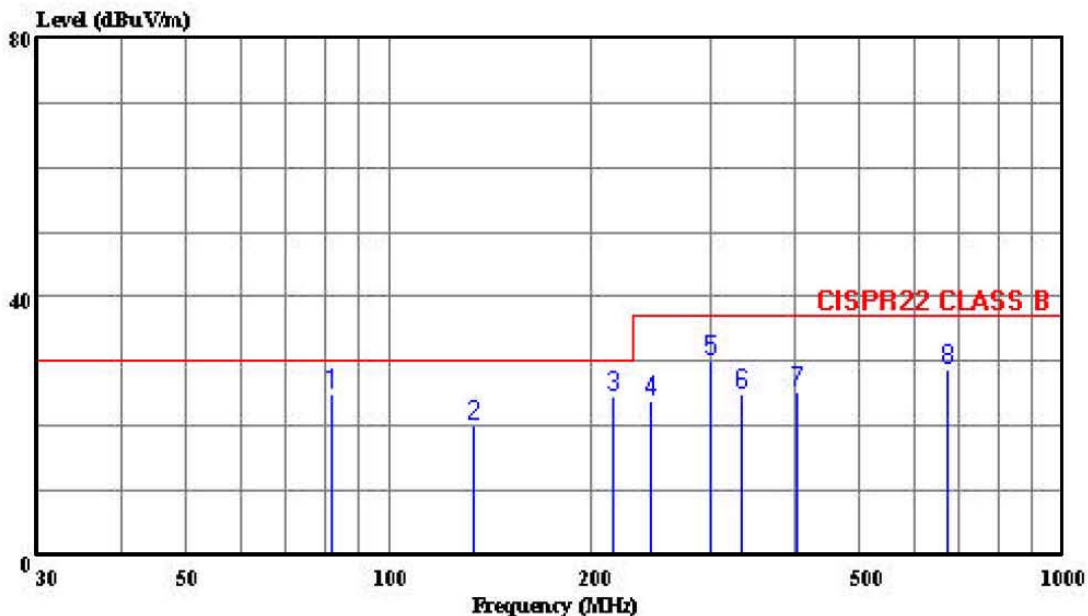


HomeTek Technology Inc.

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

Data#: 2 File#: 5F023.EMI

Date: 2006-06-22 Time: 09:47:20



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 VERTICAL  
eut : CAT5 AV Multimedia Transmission  
power: N/A  
memo : TTP111CVB

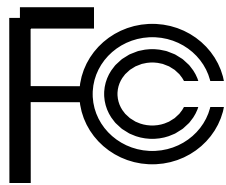
Page: 1

|   | Freq    | Level  | Limit  | Over   | ReadAntenna | Cable  | Preamp |        |        |
|---|---------|--------|--------|--------|-------------|--------|--------|--------|--------|
|   | MHz     | dBuV/m | dBuV/m | Limit  | Level       | Factor | Loss   | Factor | Remark |
|   |         |        |        | dB     | dBuV        | dB/m   | dB     | dB     |        |
| 1 | 82.027  | 24.85  | 30.00  | -5.15  | 41.89       | 7.57   | 1.22   | 25.83  | Peak   |
| 2 | 133.500 | 20.08  | 30.00  | -9.92  | 32.77       | 11.46  | 1.58   | 25.72  | Peak   |
| 3 | 215.553 | 24.61  | 30.00  | -5.39  | 39.08       | 9.10   | 2.04   | 25.61  | Peak   |
| 4 | 244.007 | 23.77  | 37.00  | -13.23 | 35.37       | 11.82  | 2.15   | 25.58  | Peak   |
| 5 | 300.000 | 30.18  | 37.00  | -6.82  | 40.21       | 13.13  | 2.37   | 25.52  | Peak   |
| 6 | 333.527 | 24.94  | 37.00  | -12.06 | 33.84       | 14.01  | 2.54   | 25.45  | Peak   |
| 7 | 404.460 | 25.42  | 37.00  | -11.58 | 32.14       | 15.68  | 2.91   | 25.31  | Peak   |
| 8 | 674.887 | 28.89  | 37.00  | -8.11  | 30.03       | 18.90  | 4.07   | 24.11  | Peak   |

### **SAMPLE OF FCC DoC LABEL 1**

This device complies with part 15 of the FCC Rules.  
Operation is subject to the following two conditions: (1)  
This device may not cause harmful interference. And (2)  
this device must accept any interference received, including  
interference that may cause undesired operation.

### **SAMPLE OF FCC DoC LABEL 2**



Trade Name  
Model Number



HomeTek Technology Inc.

## **Appendix A**

# **PHOTOS OF TEST CONFIGURATION**

## PHOTO OF RADIATED EMISSION TEST

Model : TTP111CVB



Front View



Rear View



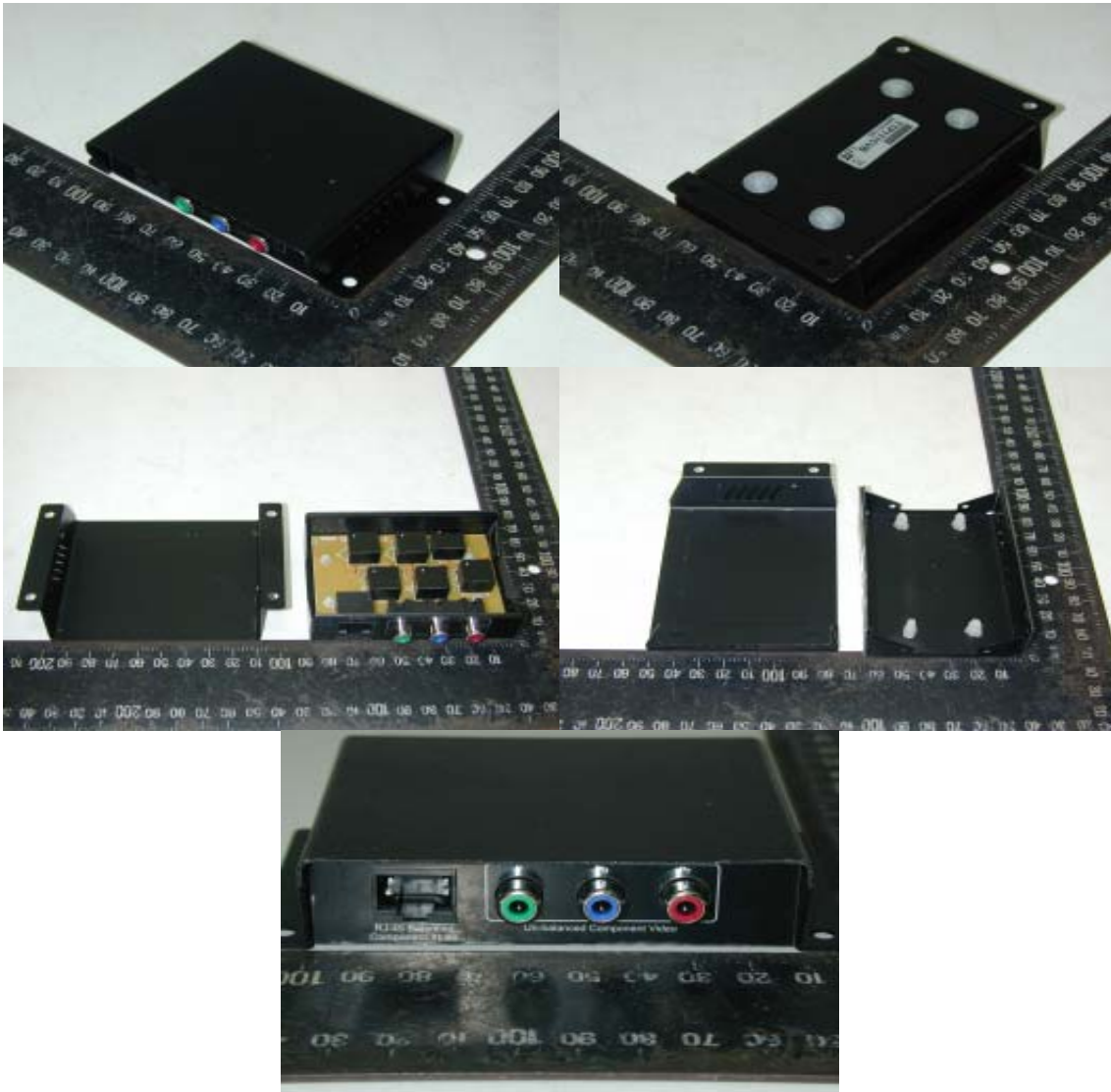
HomeTek Technology Inc.

## **Appendix B**

### **PHOTOS OF EUT**

## PHOTO OF EUT

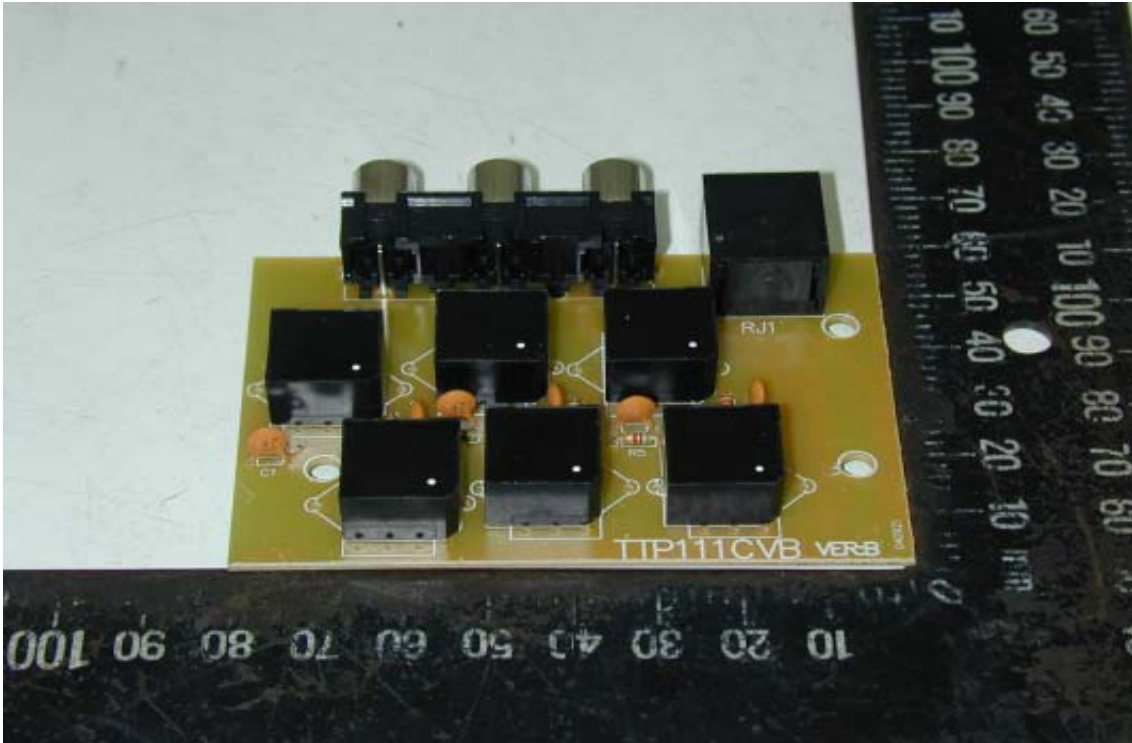
Model : TTP111CVB



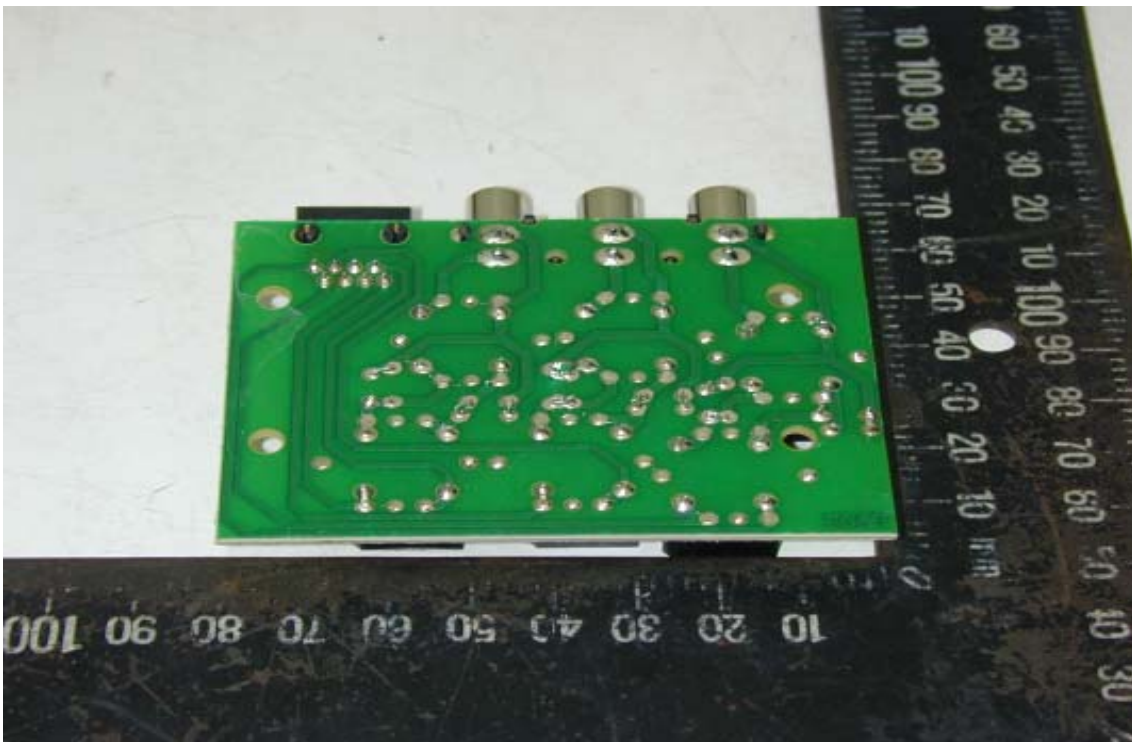
Full View of EUT

## PHOTO OF EUT

Model : TTP111CVB



Component Side of Main Board



Solder Side of Main Board

# Declaration of Conformity

Responsible Party Name :

Address :

Phone No :

Fax No :

Declares under our sole responsibility that the product

Product Name : CAT5 AV Multimedia Transmission

Model No. : TTPXXCXB

to which this declaration relates is in conformity with the following standards or other normative documents

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Representative Person's Name : \_\_\_\_\_

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

United States Department of Commerce  
National Institute of Standards and Technology



---

**Certificate of Accreditation to ISO/IEC 17025:1999**

---

NVLAP LAB CODE: 200331-0

**HomeTek Technology Inc.**

Taipei Shien 236  
TAIWAN

*is recognized by the National Voluntary Laboratory Accreditation Program for conformance with criteria set forth in  
NIST Handbook 150:2001 and all requirements of ISO/IEC Guide 17025:1999.  
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:*

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**

---

2005-10-01 through 2006-09-30

*Effective dates*



*For the National Institute of Standards and Technology*

A handwritten signature in black ink, appearing to read "John P. Ward".



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999**

**HomeTek Technology Inc.**  
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No. 67-9 Shir Men Rd., Tu Chen City  
Taipei Shien 236  
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**ELECTROMAGNETIC COMPATIBILITY  
AND TELECOMMUNICATIONS**

**NVLAP LAB CODE 200331-0**

*NVLAP Code Designation / Description*

**Emissions Test Methods:**

- 12/CIS14a EN 55014-1 (1993), A1 (1997), A2 (1999):
- 12/CIS14a2 BS EN 55014-1 (2001) with A1 and A2: Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS14b1 AS/NZS CISPR 14-1 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS14c CNS 13783-1: Electromagnetic Compatibility Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
- 12/CIS14d IEC/CISPR 14-1 (2001) and A1 (2001): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emissions
- 12/CIS14x IEC/CISPR 14-1, Ed. 4 (2003): Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
- 12/CIS22 IEC/CISPR 22 (1997) & EN 55022 (1998) + A1(2000): Limits and methods of measurement of radio disturbance characteristics of information technology equipment
- 12/CIS22a IEC/CISPR 22 (1993) and EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment, Amendment 1 (1995) and Amendment 2 (1996)

2005-10-01 through 2006-09-30

*Effective dates*

*For the National Institute of Standards and Technology*



**National Voluntary  
Laboratory Accreditation Program**



**ELECTROMAGNETIC COMPATIBILITY  
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**NVLAP LAB CODE 200331-0**

| <i>NVLAP Code</i> | <i>Designation / Description</i>   |
|-------------------|--|
| 12/CIS22b         | CNS 13438 (1997): Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment                                      |
| 12/CIS22c         | IEC/CISPR 22, Fourth Edition (2003-04) & EN 55022 (1998): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement |
| 12/FCC15b         | ANSI C63.4 (2003) with FCC Method 47 CFR Part 15, Subpart B: Unintentional Radiators   |
| 12/T51a           | AS/NZS CISPR 22 (2004): Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement                                   |
| 12/VCCIa          | VCCI: Agreement of Voluntary Control Council for Interference by Information Technology Equipment - Technical Requirements: V-3/2004.04                            |

2005-10-01 through 2006-09-30

*Effective dates*

*For the National Institute of Standards and Technology*