



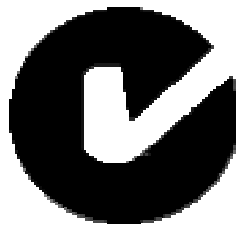
HomeTek Technology Inc.

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



## EMI TEST REPORT FOR

APPLICANT : SMART CABLING & TRANSMISSION CORP.  
ADDRESS : 10F, No. 493, Chung-Cheng Rd.,  
Hsin Tien City, Taipei 231, Taiwan, R. O. C.  
EUT : Wall Plate Audio & Video CAT5 Extender  
MODEL NO. : CW0XXX



### MEASUREMENT PROCEDURE USED

AS/NZS CISPR 22: 2004 Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement

PREPARED BY :  
HomeTek Technology Inc.  
No. 67-9, Shir Men Road, Tu Cheng City,  
Taipei Hsien. Taiwan  
Report # : AS6E015



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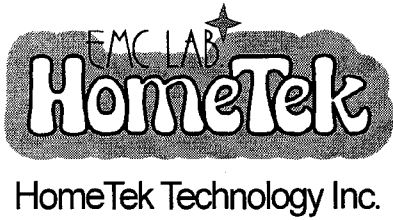
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**APPENDIX A**

PHOTOS OF TEST CONFIGURATION

**APPENDIX B**

PHOTOS OF EUT



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



## CERTIFICATE

APPLICANT : SMART CABLING & TRANSMISSION CORP.  
ADDRESS : 10F, No. 493, Chung-Cheng Rd.,  
Hsin Tien City, Taipei 231, Taiwan, R. O. C.  
Receipt Date : 05/15/2007 Final Test Date: 05/18/2007  
EUT : Wall Plate Audio & Video CAT5 Extender  
MODEL NO. : CW0XXX

### MEASUREMENT PROCEDURE USED :

AS/NZS CISPR 22: 2004 Information technology equipment – Radio  
disturbance characteristics – Limits and methods of measurement

- 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, NIST OR ANY AGENCY OF THE U. S. GOVERNMENT.
- THE TEST RESULTS ARE TRACEABLE TO THE NATIONAL OR INTERNATIONAL STANDARD.

APPROVED BY :  5/30/2007

ALAIN LIN / Supervisor

## 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 : Wall Plate Audio & Video CAT5 Extender
- Model Number : CW0XXX
- Serial # : N/A

5.1 The difference between series of models CW0XXX are as shown below:

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

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

- 6 FEATURES OF EUT :

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



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## **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 **AS/NZS CISPR 22**.

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

N/A (Conducted Power Line Test is not applicable to this EUT ( Model : CW01AV)).

## 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/2006     |
| 2    | EMI TEST RECEIVER       | 20Hz ~ 26.5GHz                             | ROHDE & SCHWARZ | ESMI<br>845442/006     | FEB/2007     |
| 3    | PRE-AMPLIFIER           | 9KHz ~ 3000MHz                             | ADVANTEST       | BB525C<br>90081001     | OCT/2006     |
| 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/2006     |
| 6    | Ferrite Clamp           | 30 ~ 1000MHz                               | ADT             | FC18<br>910030         | DEC/2006     |
| 7    | Ferrite Clamp           | 30 ~ 1000MHz                               | HomeTek         | HFC<br>001             | DEC/2006     |
| 8    | Cable                   | 10m  | SUHNER          | RG214/U<br>OS3-003     | DEC/2006     |
| 9    | Cable                   | 14m  | BELDEN          | 9913<br>OS3-001        | DEC/2006     |
| 10   | EMI 32 (software)       | N/A  | AUDIX           | 19991013-0923          | N/A          |

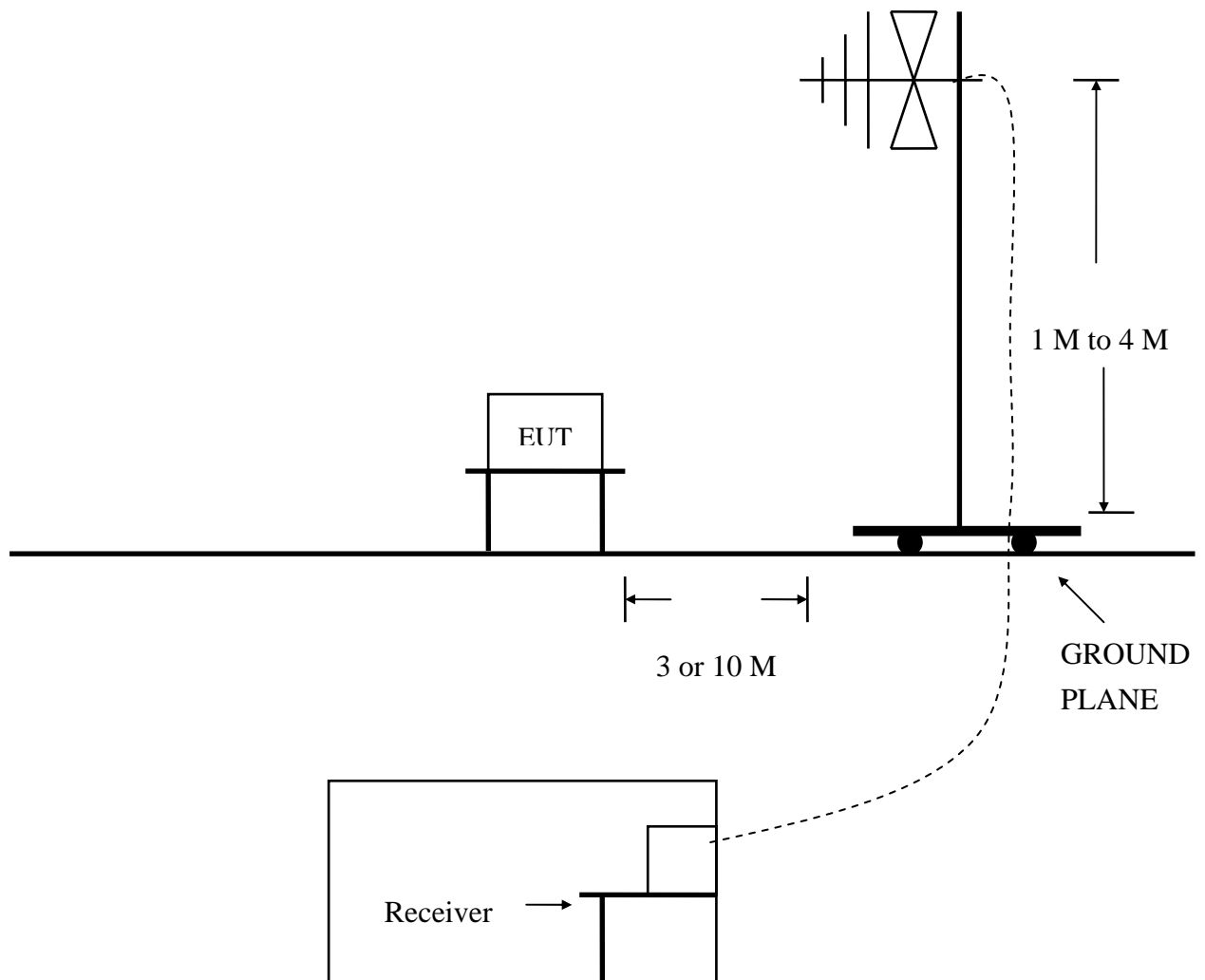
Note : Items 1 ~ 9 were calibrated within period of 1 year.

## 2 TEST PROCEDURE

- 2.1 The EUT was test according to **AS/NZS CISPR 22**.
- 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.

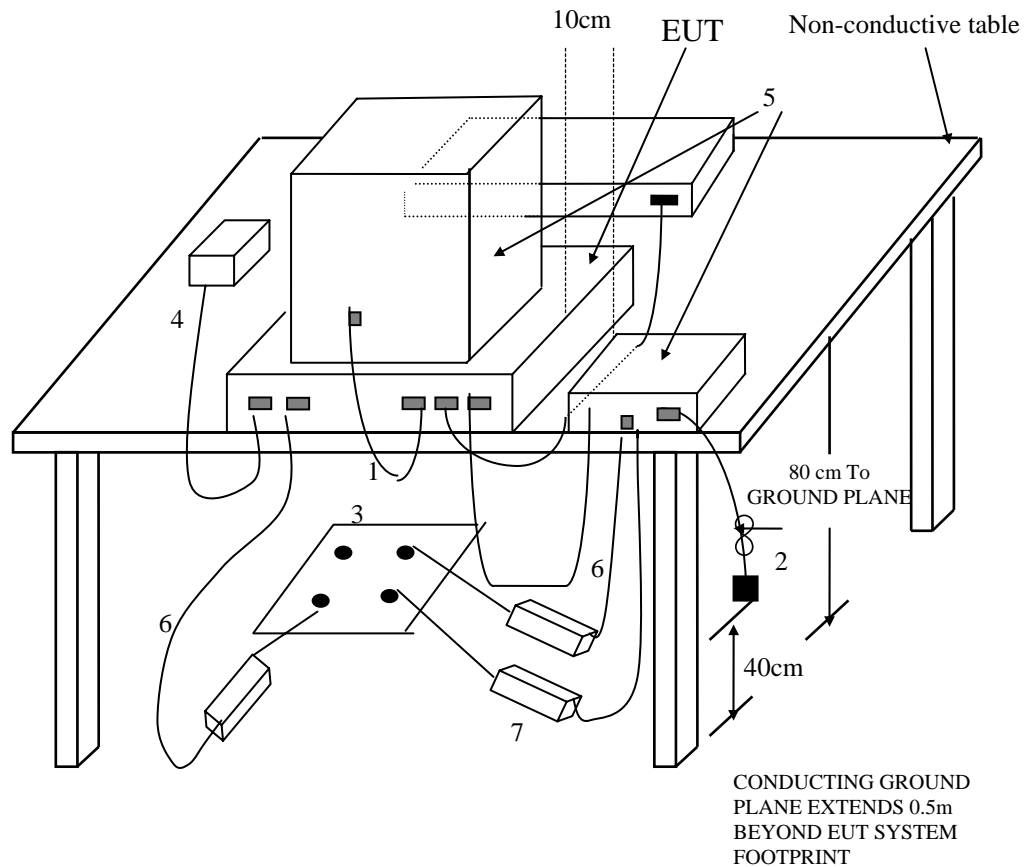
## 3 TEST SETUP

### 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 AS  
NZS CISPR 22



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

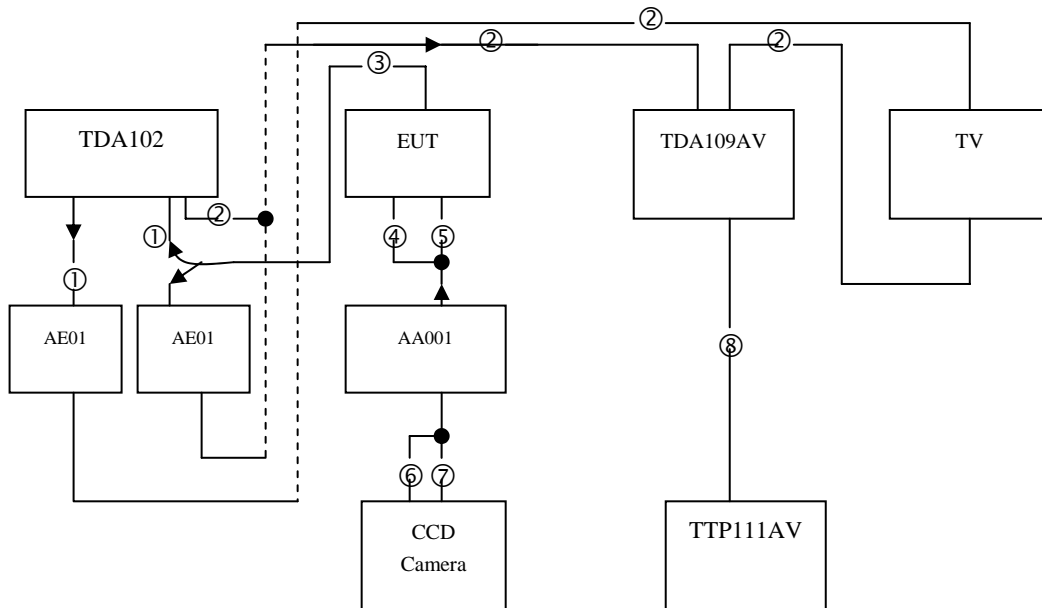
#### LEGEND:

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 cm 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 Emission

#### 4 CONFIGURATION OF THE EUT

The EUT was configured according to **AS/NZS CISPR 22**. All I/O ports were connected to the appropriate peripherals. All peripherals and cables are listed below (including internal device) :



- ① Data Cable
- ② AV Cable
- ③ RJ-45 Cable
- ④ Audio Out Cable
- ⑤ Video Out Cable
- ⑥ Video In Cable
- ⑦ Power Cable
- ⑧ RJ-45 Cable x 9

Figure 1



#### 4.1 EUT

EUT Type : Proto Type Engineer Type Mass Production  
Condition when received : Good Damage : \_\_\_\_\_  
Device : Wall Plate Audio & Video CAT5 Extender  
Applicant : SMART CABLING & TRANSMISSION CORP.  
Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : CW0XXX  
Serial Number : N/A  
FCC ID : N/A  
Video Out Port : Metal Type Connector  
Audio Out Port : Metal Type Connector  
RJ-45 Port : Plastic Type Connector  
Power Cord : N/A  
Power Supply Type : N/A

#### 4.2 PERIPHERALS

##### AUDIO PICK-UP BOX

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : AA001  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 : Un-Shielded, 0.5 m, Connected to the AV Out port  
Data Cable 2 : Un-Shielded, 0.3 m, Connected to the Video port  
Data Cable 3 : Un-Shielded, 0.5 m, Connected to the Power Output port  
Power Cord : N/A



Twisted Pair 1 input to 2 Output Video Distributor

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : TDA102  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 : Un-Shielded, 0.1 m, Connected to the Video In port  
Data Cable 2 : Un-Shielded, 0.1 m, Connected to the Video Out port  
Data Cable 3 : Shielded, 1.6 m, Connected to the Video Out port  
Power Cord & Adaptor : Un-Shielded, 1.8 m

1 input 9 output video & audio CAT5 distribution amplifier

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : TDA109AV  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 x 3 : Shielded, 1.6 m, Connected to the AV In port  
Data Cable 2 x 3 : Shielded, 1.2 m, Connected to the AV Out port  
Data Cable 3 x 9 : Un-Shielded, 10 m, Connected to the RJ-45 In port  
Power Cord (DC) : Un-Shielded, 1.8 m

Video & Audio Transceiver

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : TTP111AV  
Serial Number : N/A  
FCC ID : N/A  
Data Cable x 9 : Un-Shielded, 10 m, Connected to the RJ-45 port  
Power Cord (DC) : N/A



## HomeTek Technology Inc.

Audio CAT5 extender x 2

Manufacturer : SMART CABLING & TRANSMISSION CORP.  
Model Number : AE01  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 : Un-Shielded, 0.1 m, Connected to the Video In port  
Data Cable 2 : Un-Shielded, 0.1 m, Connected to the Video Out port  
Data Cable 3 : Shielded, 1.6 m, Connected to the AV In port  
Data Cable 4 : Shielded, 1.6 m, Connected to the AV Out port  
Power Cord : N/A

CCD Camera

Manufacturer : Comedar  
Model Number : CM-930  
Serial Number : N/A  
FCC ID : N/A  
Data Cable 1 : Un-Shielded, 0.3 m, Connected to the Video port  
Data Cable 2 : Un-Shielded, 0.5 m, Connected to the Power Output port  
Power Cord : N/A

TV

Manufacturer : TCL  
Model Number : 1419A  
Serial Number : 010019502035F0039  
FCC ID : N/A  
Data Cable 1 : Shielded, 1.2 m, Connected to the AV Out port  
Data Cable 2 : Shielded, 1.6 m, Connected to the AV Out port  
Power Cord (DC) : Un-Shielded, 1.8 m

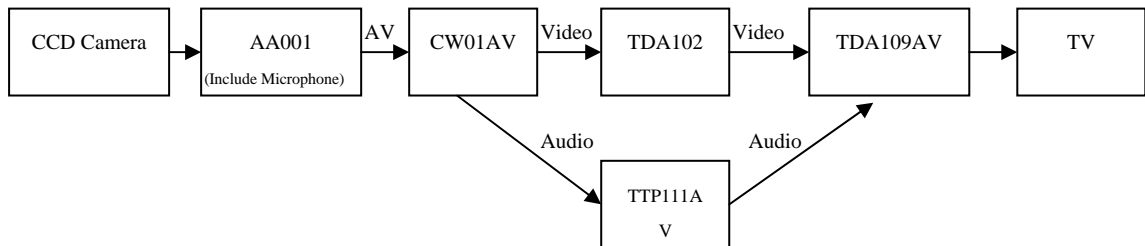
4.3 REMARK : N/A

## 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



5.4 CCD camera & AA001 send audio and video signals to CW01AV, TTP111AV, TDA102, TDA109AV, and CW01AV, TTP111AV, TDA102, TDA109AV change audio and video signals.

5.5 Then has changed audio and video signals send to TV display.

5.6 Measure the maximum emission noise.

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

## 6 LIMIT OF RADIATED EMISSION CLASS B

### AS/NZS 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 The measurements were made at 10 meters of HomeTek Lab's open site III.
- 7.4 Temperature : 29 °C, Humidity : 58 % RH.
- 7.5 Uncertainty in radiated emission measurement :  $\pm 4.18\text{dB}$ .
- 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)

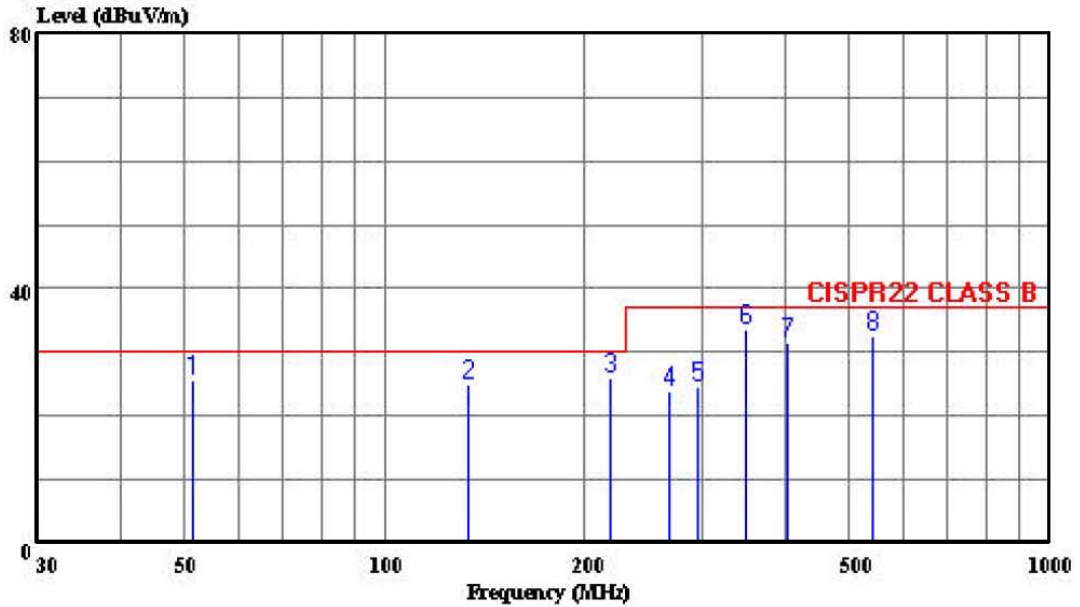


HomeTek Technology Inc.

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

Data#: 6 File#: 6e015.emi

Date: 2007-05-16 Time: 17:39:15



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 HORIZONTAL  
eut : Wall Plate Audio & Video CAT5 Extender  
power: 240V/50Hz  
memo : CW01AV

Page: 1

| Peak | Freq<br>MHz | Level<br>dBuV/m | Limit<br>dBuV/m | Over<br>Limit<br>dB | ReadAntenna<br>Level<br>dBuV | Cable<br>Factor<br>dB/m | Preamp<br>Loss<br>dB | Remark     |
|------|-------------|-----------------|-----------------|---------------------|------------------------------|-------------------------|----------------------|------------|
| 1    | 51.348      | 25.66           | 30.00           | -4.34               | 42.35                        | 8.52                    | 0.76                 | 25.97 Peak |
| 2    | 133.396     | 24.80           | 30.00           | -5.20               | 37.44                        | 11.45                   | 1.74                 | 25.83 Peak |
| 3    | 218.642     | 25.93           | 30.00           | -4.07               | 40.27                        | 9.10                    | 2.23                 | 25.68 Peak |
| 4    | 266.940     | 23.72           | 37.00           | -13.28              | 34.07                        | 12.62                   | 2.60                 | 25.56 Peak |
| 5    | 295.237     | 24.75           | 37.00           | -12.25              | 34.47                        | 13.04                   | 2.75                 | 25.51 Peak |
| 6    | 348.006     | 33.68           | 37.00           | -3.32               | 41.50                        | 14.45                   | 3.08                 | 25.36 Peak |
| 7    | 402.531     | 31.53           | 37.00           | -5.47               | 37.62                        | 15.72                   | 3.38                 | 25.19 Peak |
| 8    | 541.140     | 32.67           | 37.00           | -4.33               | 34.17                        | 18.44                   | 4.74                 | 24.68 Peak |



9 RADIATED EMISSION TEST DATA (PAGE 2)

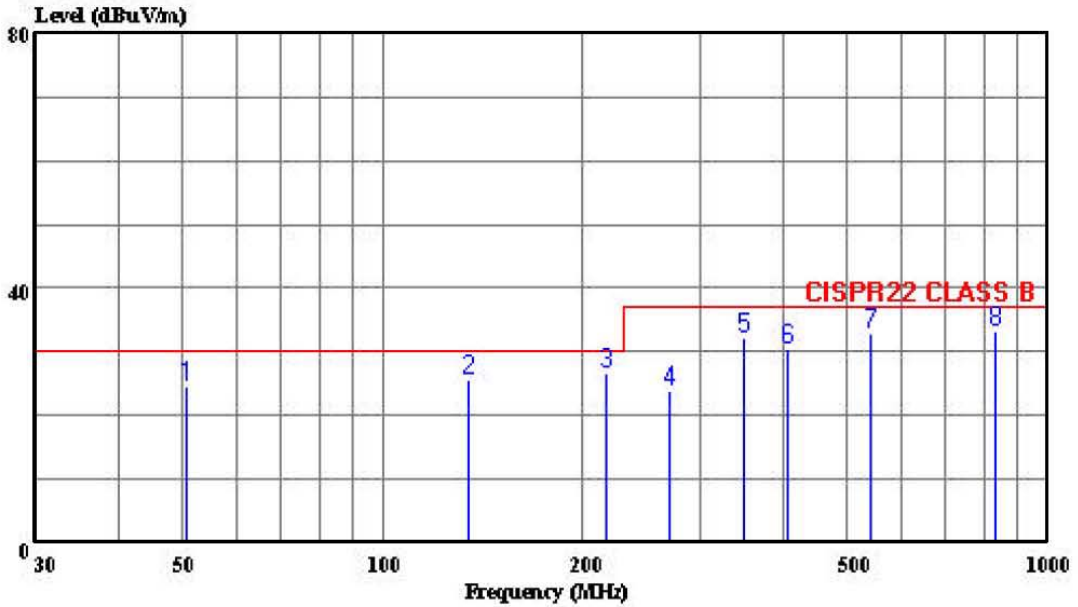


HomeTek Technology Inc.

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

Data#: 4 File#: 6e015.emi

Date: 2007-05-16 Time: 17:06:58



Trace:

Ref Trace:

Condition: CISPR22 CLASS B 10m CHASE 2614 060506 VERTICAL  
 eut : Wall Plate Audio & Video CAT5 Extender  
 power: 240V/50Hz  
 memo : CW01AV

Page: 1

|      | Limit   | Over   | ReadAntenna | Cable  | Preamp |        |      |       |      |
|------|---------|--------|-------------|--------|--------|--------|------|-------|------|
| Freq | Level   | Line   | Level       | Loss   | Factor | Remark |      |       |      |
| MHz  | dBuV/m  | dBuV/m | dB          | dB     | dB/m   | dB     | dB   |       |      |
| 1    | 50.469  | 24.69  | 30.00       | -5.31  | 41.37  | 8.52   | 0.76 | 25.97 | Peak |
| 2    | 134.366 | 25.78  | 30.00       | -4.22  | 38.42  | 11.45  | 1.74 | 25.83 | Peak |
| 3    | 216.042 | 26.83  | 30.00       | -3.17  | 41.17  | 9.10   | 2.23 | 25.68 | Peak |
| 4    | 269.940 | 24.02  | 37.00       | -12.98 | 34.37  | 12.62  | 2.60 | 25.56 | Peak |
| 5    | 350.006 | 32.28  | 37.00       | -4.72  | 40.10  | 14.45  | 3.08 | 25.36 | Peak |
| 6    | 405.531 | 30.53  | 37.00       | -6.47  | 36.62  | 15.72  | 3.38 | 25.19 | Peak |
| 7    | 540.180 | 32.80  | 37.00       | -4.20  | 34.30  | 18.44  | 4.74 | 24.68 | Peak |
| 8    | 833.212 | 33.09  | 37.00       | -3.91  | 31.50  | 20.11  | 5.14 | 23.66 | Peak |



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## **Appendix A**

# **PHOTOS OF TEST CONFIGURATION**

## PHOTO OF RADIATED EMISSION TEST

Model : CW01AV



Front View



Rear View



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## **Appendix B**

### **PHOTOS OF EUT**

## PHOTO OF EUT

Model : CW0XXX



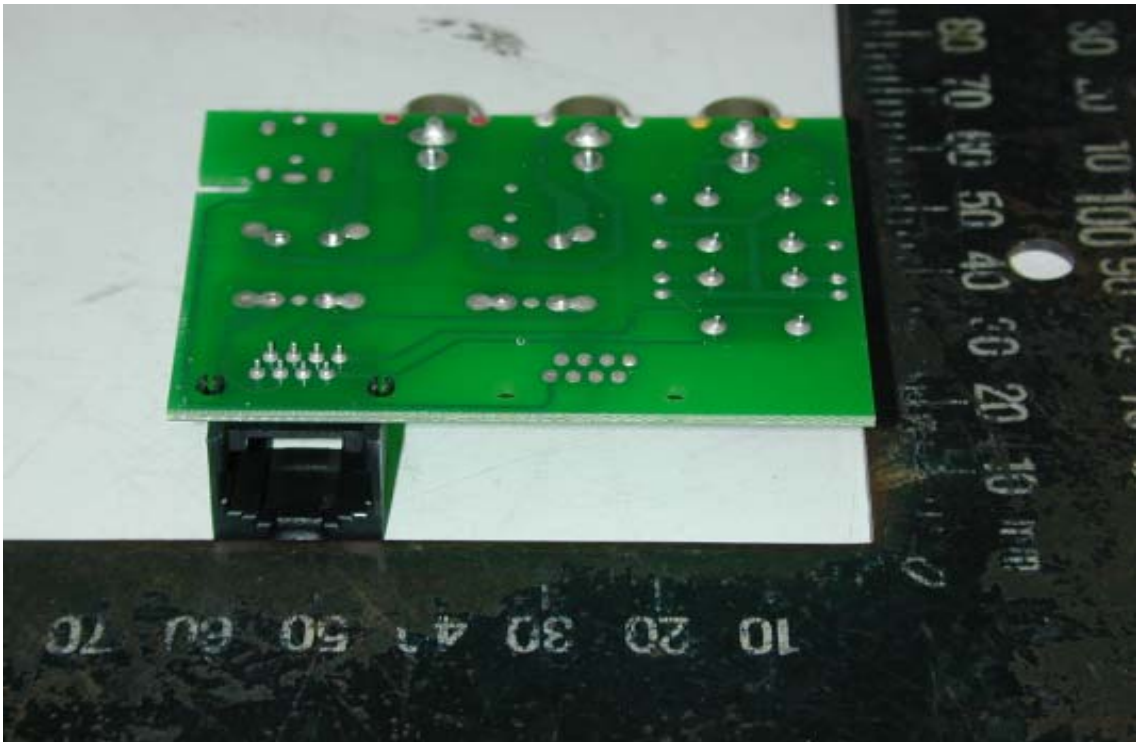
Full View of EUT

## PHOTO OF EUT

Model : CW0XXX



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 : Wall Plate Audio & Video CAT5 Extender

Model No. : CW0XXX

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

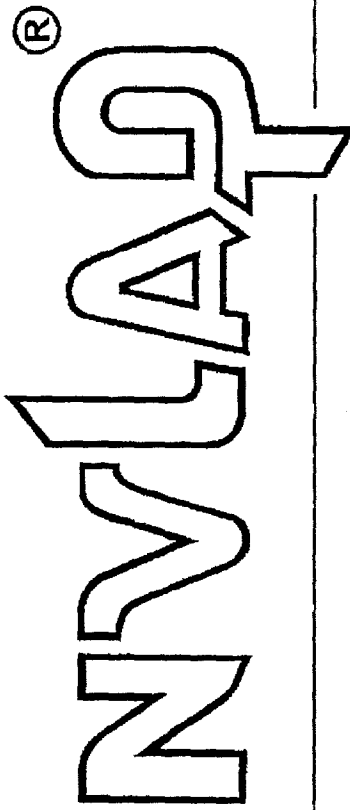
AS/NZS CISPR 22 (2004) : Electromagnetic Interference  
– Limits and Methods of Measurement of Information Technology Equipment

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

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

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

United States Department of Commerce  
National Institute of Standards and Technology



---

## Certificate of Accreditation to ISO/IEC 17025:2005

---

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  
NVLAP accreditation documents and all requirements of ISO/IEC 17025:2005.  
Accreditation is granted for specific services, listed on the Scope of Accreditation, for:

**ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS**

2006-10-01 through 2007-09-30

Effective dates



*Dally A. Bruce*  
For the National Institute of Standards and Technology



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

**HomeTek Technology Inc.**  
P.O Box: 13-131, Pan-Chiao City  
No. 67-9 Shir Men Rd., Tu Chen City  
Taipei Shien 236  
TAIWAN  
Mr. Grant Huang  
Phone: 886-2-22608375 Fax: 886-2-22748013  
E-Mail: hometek@ms15.hinet.net

**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         |

2006-10-01 through 2007-09-30

*Effective dates*

*Sally A. Bruce*  
For the National Institute of Standards and Technology



**National Voluntary  
Laboratory Accreditation Program**



**ELECTROMAGNETIC COMPATIBILITY  
AND TELECOMMUNICATIONS**

**NVLAP LAB CODE 200331-0**

| <i>NVLAP Code</i> | <i>Designation / Description</i>   |
|-------------------|--|
| 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) |
| 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-3/2005.04  |

2006-10-01 through 2007-09-30

*Effective dates*

*For the National Institute of Standards and Technology*