



ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR FCC CLASS B CERTIFICATION

Test Report No. : E058R-070

Applicant : Honest Technology

Address : Kyung-Dong Bldg., 5F, 906-5, Jijok-Dong, Yuseong-Gu, Daejeon, Korea

Manufacturer : KOHIN ELECTRONICS., LTD.

Address : No. 45, New Sun Industrial Park, Lin Cun District, Tang Xia Town,
Dong Guan City, Guang Dong Province, P.R. China

Type of Equipment : USB Remote Controller (Receiver)

FCC ID : TJWIC-TVRECEIVER

Model Name : IC-TV Remote Controller

Serial Number : N/A

Total page of Report : 11 pages (including this page)

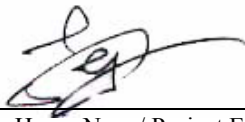
Date of Incoming : August 15, 2005

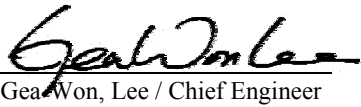
Date of Issuing : August 30, 2005

SUMMARY

The equipment complies with the requirements of **FCC CFR 47 PART 15 SUBPART B, Class B.**

This test report contains only the results of a single test of the sample supplied for the examination. It is not a general valid assessment of the features of the respective products of the mass-production.

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**1. VERIFICATION OF COMPLIANCE**

- APPLICANT : Honest Technology
- ADDRESS : Kyung-Dong Bldg., 5F, 906-5, Jijok-Dong, Yuseong-Gu, Daejeon, Korea
- CONTACT PERSON : Mr. Jae-Yong, Lee / Engineer
- TELEPHONE NO : +82-42-477-0717
- FCC ID : TJWIC-TVRECEIVER
- MODEL NAME : IC-TV Remote Controller
- SERIAL NUMBER : N/A
- DATE : August 30, 2005

EQUIPMENT CLASS	JBP - Part 15 Class B computing Device Peripheral
E.U.T. DESCRIPTION	USB Remote Controller (Receiver)
THIS REPORT CONCERNS	ORIGINAL GRANT
MEASUREMENT PROCEDURES	ANSI C63.4: 2003
TYPE OF EQUIPMENT TESTED	PRE-PRODUCTION
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	CERTIFICATION
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15, SECTION 15.101
MODIFICATIONS ON THE EQUIPMENT TO ACHIEVE COMPLIANCE	No
FINAL TEST WAS CONDUCTED ON	3 METER OPEN AREA TEST SITE

- This device has shown compliance with the conducted emissions limits in 15.107 adopted under FCC 02-107 (ET Docket 98-80). The device may be marketed after July 11, 2005 affected by the 15.37(j) transition provisions.
- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.



2. GENERAL INFORMATION

2.1 Product Description

The Honest Technology, Model IC-TV Remote Controller (referred to as the EUT in this report) is an USB Remote Controller (Receiver). Product specification described herein was obtained from product data sheet or user's manual.

CHASSIS TYPE	Plastic
LIST OF EACH OSC. OR CRY. FREQ.(FREQ.>=1MHz)	4 MHz
ELECTRICAL RATING	DC 5V
EXTERNAL CONNECTOR	USB

2.2 Model Differences:

-. None

2.3 Related Submittal(s) / Grant(s)

Original submittal only

2.4 Test System Details

The model numbers for all the equipments that were used in the tested system is:

Model	Manufacturer	FCC ID	Description	Connected to
IC-TV Remote Controller	KOHIN ELECTRONICS., LTD.	TJWIC- TVRECEIVER	USB Remote Controller (Receiver) (EUT)	NOTEBOOK PC
N/A	KOHIN ELECTRONICS., LTD.	N/A	Remote Controller(Tx)	-
PP01L	DELL Computer Corp.	DoC	NOTEBOOK PC	-
M4	Mouse System Corp.	DoC	HYUNDAI-JPC INC	NOTEBOOK PC
2225C	HP	DSI6XU2225	PRINTER	NOTEBOOK PC

2.5 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4: 2003. Radiated testing was performed at a distance of 3 meters from EUT to the antenna.

2.6 Test Facility

The open area test site and conducted measurement facilities are located on at 426-1 Daessangryung-Ri, Chowol-Eup, Kwangju-City, Kyunggi-Do, 464-080, Korea. Description details of test facilities were submitted to the Commission on April 04, 2003. (Registration Number: 340658)

3. SYSTEM TEST CONFIGURATION

3.1 Justification

This device was configured for testing in a typical way as a normal customer is supposed to be used. During the test, the following components were installed inside of the EUT.

DEVICE TYPE	MANUFACTURER	MODEL/PART NUMBER	FCC ID
Main Board	KOHIN ELECTRONICS., LTD.	IR-RECEIVER	N/A

3.2 EUT exercise Software

- After connecting the EUT to the Notebook PC, the signal was transmitted from the remote controller(Tx) to receiver(EUT) continuously.

3.3 Cable Description

	Power Cord Shielded (Y/N)	I/O cable Shielded (Y/N)	Length (M)
USB Remote Controller (Receiver) (EUT)	N/A	Y	1.2 (D)
Remote Controller (Tx)	N/A	N/A	-
NOTEBOOK PC	N	-	1.5 (P)
AC/DC ADAPTER (Notebook PC)	N	N	1.5 (P), 1.0 (D)
MOUSE	N/A	Y	1.2(D)
PRINTER	N	Y	1.8 (P), 1.2 (D)

* The marked "(P)" means the Power Cable and "D" means the I/O Cable.

3.4 Noise Suppression Parts on Cable

	Ferrite Bead (Y/N)	Location	Metal Hood (Y/N)	Location
Infrared Receiver (EUT)	N	N/A	Y	EUT END
Remote Controller (Tx)	-	-	-	-
NOTEBOOK PC	-	-	-	-
AC/DC ADAPTER (Notebook PC)	Y	Notebook PC END	Y	Notebook PC END
MOUSE	N	N/A	Y	Notebook PC END
PRINTER	N	N/A	Y	BOTH END

3.5 Equipment Modifications

- None



3.6 Configuration of Test System

Line Conducted Test : The receiver(EUT) was connected to PC and the power line of PC was connected to LISN. All supporting equipments were connected to another LISN. Preliminary Power line Conducted Emission test was performed by using the procedure in ANSI C63.4: 2003 7.2.3 to determine the worse operating conditions.

Radiated Emission Test : Preliminary radiated emission test was conducted using the procedure in ANSI C63.4: 2003 8.3.1.1 to determine the worse operating conditions. Final radiated emission test was conducted at 3 meters open area test site.

4. PRELIMINARY TEST

4.1 AC Power line Conducted Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
After connecting the EUT to the Notebook PC, the signal was transmitted from the remote controller to receiver(EUT).	X

4.2 Radiated Emission Test

During Preliminary Test, the following operating mode was investigated

Operation Mode	The Worse operating condition (Please check one only)
After connecting the EUT to the Notebook PC, the signal was transmitted from the remote controller to receiver(EUT).	X

**5. FINAL RESULT OF MEASUREMENT**

Preliminary test was done in normal operation mode. And the final measurement was selected for the maximized emission level

5.1 Conducted Emission TestHumidity Level : 43 %Temperature: 22 °CLimits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.107 (a)Type of Test : CLASS BResult : PASSED BY -7.83 dB at 0.19 MHz

EUT : USB Remote Controller (Receiver)

Date: August 16, 2005

Operating Condition : The signal was transmitted from the remote controller to receiver continuously.

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 9 kHz)

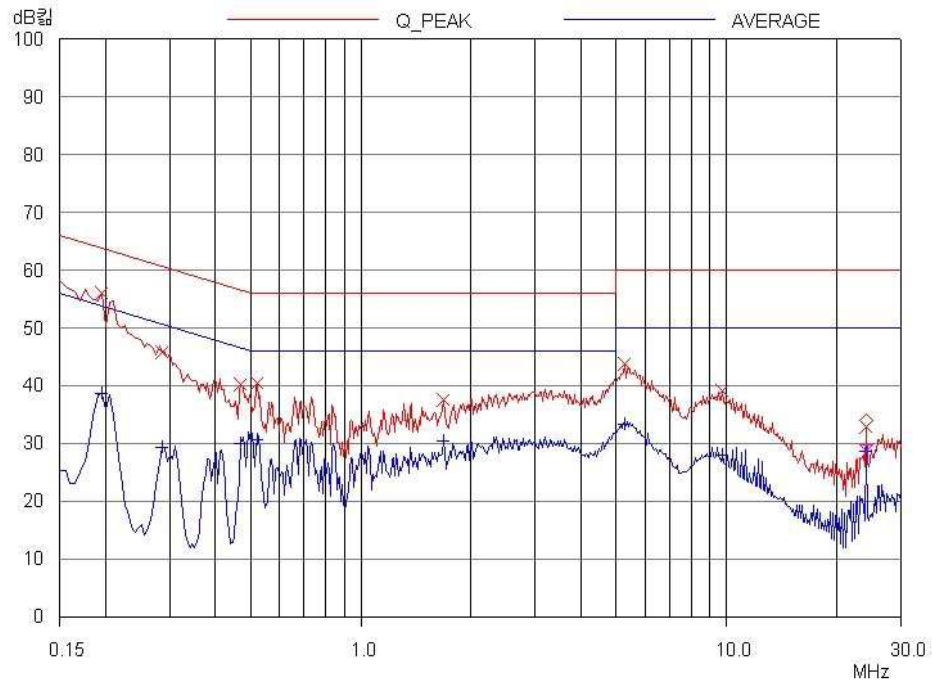
Frequency (MHz)	Line	Quasi-Peak (dBuV)			Margin (dB)	Average (dBuV)		Margin (dB)
		Emission level	Detect Mode	Limits		Emission level	Limits	
0.19	H	55.99	P	63.82	-7.83	38.67	53.82	-15.15
0.28	N	46.35	P	60.67	-14.32	32.28	50.67	-18.39
0.31	N	44.78	P	59.97	-15.19	31.34	49.97	-18.63
0.52	N	41.08	P	56.00	-14.92	32.09	46.00	-13.91
5.37	N	44.22	P	60.00	-15.78	34.54	50.00	-15.46
11.63	N	45.33	P	60.00	-14.67	24.52	50.00	-25.48

Line Conducted Emission Tabulated Data

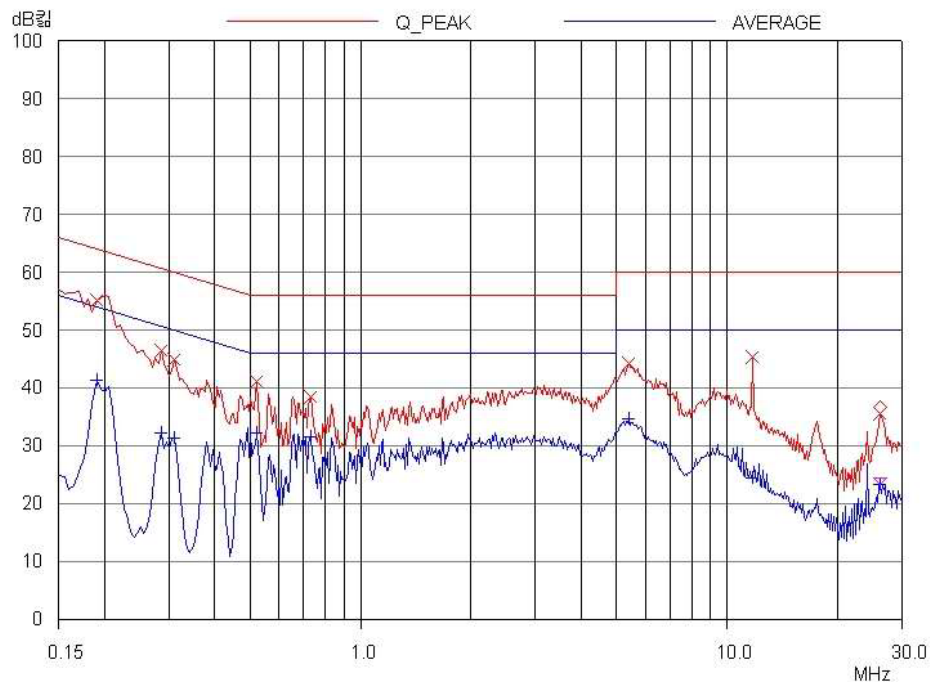
Remark : "H": Hot Line, "N": Neutral line, "P": Peak detector.

See next page for an overview sweep performed with peak and average detector.

Tested by: Dong-Yub, Lee / Test Engineer



HOT LINE



NEUTRAL LINE

**5.2 Radiated Emission Test**

The following table shows the highest levels of radiated emission on both polarizations of horizontal and vertical.

Humidity Level : 41 % Temperature: 24 °C
 Limits apply to : FCC CFR 47, PART 15, SUBPART B, SECTION 15.109 (a)
 Type of Test : CLASS B
 Result : PASSED BY -3.72 dB at 53.00 MHz

EUT : USB Remote Controller (Receiver) Date: August 16, 2005
 Operating Condition : The signal was transmitted from the remote controller to receiver continuously.
 Frequency range : 30MHz – 1000MHz
 Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)
 Distance : 3 Meter

Radiated Emissions		Ant	Correction Factors		Total	FCC CLASS B	
Freq. (MHz)	Amplitude (dBuV)	Pol.	Antenna (dB/m)	Cable (dB)	Amplitude (dBuV/m)	Limit (dBuV/m)	Margin (dB)
53.00	25.20	V	9.64	1.44	36.28	40.00	-3.72
240.00	19.80	H	16.78	3.24	39.82	46.02	-6.20
359.10	15.50	H	14.54	4.24	34.28	46.02	-11.74
464.20	13.70	H	16.89	4.78	35.37	46.02	-10.65
798.00	11.30	H	20.42	7.19	38.91	46.02	-7.11
929.20	11.10	H	22.72	7.74	41.56	46.02	-4.46

Radiated Emissions Tabulated Data

Tested by: Dong-Yub, Lee / Test Engineer



6. FIELD STRENGTH CALCULATION

Meter readings are compared to the specification limit correcting for antenna and cable losses

+ Meter reading (dBuV)

+ Cable Loss (dB)

+ Antenna Factor (Loss) (dB/meter)

= Corrected Reading (dBuV/meter)

- Specification Limit (dBuV/meter)

= dB Relative to Spec (+/- dB)

**7. LIST OF TEST EQUIPMENT**

No.	EQUIPMENTS	MFR.	MODEL	SER. NO.	LAST CAL	DUE CAL	USE
1.	Test receiver	R/S	ESVS10	827864/005	DEC/04	12MONTH	■
2.	Test receiver	R/S	ESHS 10	834467/007	MAY/05	12MONTH	■
3.	Spectrum analyzer	HP	8566B	3407A08547	JUL/05	12MONTH	
4.	Spectrum analyzer	HP	8568B	3109A05456	APR/05	12MONTH	■
5.	RF preselector	HP	85685A	3107A01264	APR/05	12MONTH	■
6.	Quasi-Peak Adapter	HP	8574B	2811A01432	APR/05	12MONTH	■
7.	TRILOG Broadband Antenna	Schwarzbeck	VULB9163	VULB9163 166	APR/05	12MONTH	
8.	Biconical antenna	EMCO	3110	9003-1121	FEB/05	12MONTH	
		Schwarzbeck	VHA9103	91031852	JAN/05		■
9.	Log Periodic antenna	EMCO	3146	9001-2614	FEB/05	12MONTH	
		Schwarzbeck	9108-A(494)	62281001	FEB/05		■
10.	LISN	EMCO	3825/2	9109-1867	JUL/04	12MONTH	
				9109-1869	NOV/04		■
		Schwarzbeck	NSLK 8128	8128-216	JUN/05		■
11.	Position Controller	HD GmbH	HD100	N/A	N/A	N/A	■
12.	Turn Table	HD GmbH	DS420S	N/A	N/A	N/A	■
13.	Antenna Master	HD GmbH	MA240	N/A	N/A	N/A	■