



**INTERNATIONAL ELECTRICAL CERTIFICATION CENTRE LTD.**

**F C C -  
TEST REPORT**

REPORT NO.: 16865/8/200F

Units 602-605, 6/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong  
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INTERNATIONAL ELECTRICAL  
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# LABORATORY - REPORT

**APPLICANT:** ALCO ELECTRONICS LTD  
**ADDRESS:** 5/F, Zung Fu Industrial Building  
1067 King's Road  
Quarry Bay  
HONG KONG

**DATE OF SAMPLE RECEIVED:** 1998-06-25

**DATE OF TESTING:** 1998-07-08

### DESCRIPTION OF SAMPLE:

**Product:** CD Graphic Player with Cassette Recorder Echo Sound and Vocal Changer  
**Manufacturer:** HAU KAI ALCO ELECTRONICS/CHANG AN COMMUSONICS ELECTRONICS FTY  
**Model number:** CDG2-S  
**Additional model number:** CDG2  
**Brand name:** VENTURER  
**Rating:** AC 120V 60Hz 30W  
**Country of Origin:** P.R. CHINA

**INVESTIGATIONS REQUESTED:** Measurements to the relevant clauses of F.C.C. Rules and Regulations Part 15 Subpart B – Unintentional Radiators. The results obtained are to compare with the Class B Digital Device limit.

**RESULTS:** See the attached test sheets

**CONCLUSIONS** From the measurement data obtained, the tested sample was considered to have **COMPLIED** with the requirements for the relevant clauses of Federal Communications Commission Rules as specified above.



*[Handwritten Signature]*  
Authorized Signature



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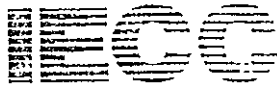
# Summary of Test Results

### Interference Radiation:

Test result: O.K.  
Test data: See attached data sheet

### Interference Voltage:

Test result: O.K.  
Test data: See attached data sheet



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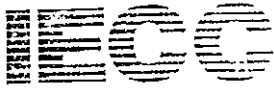
International Electrical Certification Centre Ltd.

Interference Radiation 30MHz-1000MHz  
Acc: FCC Part 15 Subpart B

IECC Ref: 16865/8/200F  
 Model: VENTURER CDG2-S  
 Applicant: ALCO ELECTRONICS LTD  
 Ser.Nr.: 1  
 Set under test: CD Graphic Player with Cassette Recorder Echo Sound and Vocal Changer  
 Connected sets: -  
 Operating mode: Power "On" (CD Playing)  
 Class: B

Test Equipment  
 Receiver: ESVP Rohde & Schwarz  
 Antenna: Schwarzbeck BBA 9106  
 and UHALP 9107

Frequency (MHz)	Horz. Reading dB(µV)	Vert. Reading dB(µV)	Antenna Factor (dB)	Horiz. Test Result dB(µV/m)	Vert. Test Result dB(µV/m)	Limit dB(µV/m)
30	< 16	< 16	14.0	< 30.0	< 30.0	40.0
43	24	28	9.4	33.4	37.4	40.0
50.9	28	31	6.9	34.9	37.9	40.0
57.3	27	32	5.9	32.9	37.9	40.0
71.6	29	30	4.2	33.2	34.2	40.0
76.3	20	23	4.6	24.6	27.6	40.0
85.9	28.5	25	5.9	34.4	30.9	40.0
101.6	25	28.5	8.8	33.8	37.3	43.5
114.6	28	28.5	10.3	38.3	38.8	43.5
135.9	22	19	12.2	34.2	31.2	43.5
143.2	28	23	12.7	40.7	35.7	43.5
150.3	28	25	13.0	41.0	38.0	43.5
169.4	22	< 16	14.0	36.0	< 30.0	43.5
186.1	22	16	14.7	36.7	30.7	43.5
203.2	22	16	15.2	37.2	31.2	43.5
207.5	22	16	15.4	37.4	31.4	43.5
220.1	23	< 16	15.8	38.8	< 31.8	46.0
227.8	21	16	16.0	37.0	32.0	46.0
236.2	22	< 16	16.3	38.3	< 32.3	46.0
243.4	22	16	16.5	38.5	32.5	46.0
258.4	23	16	17.0	40.0	33.0	46.0
326	20	27	16.8	36.8	43.8	46.0
330.2	18	26.5	16.9	34.9	43.4	46.0
343	18	26	17.2	35.2	43.2	46.0
347.2	20	26	17.3	37.3	43.3	46.0
368.3	< 16	25	17.7	< 33.7	42.7	46.0
376.9	< 16	24	17.9	< 33.9	41.9	46.0
385.3	< 16	22	18.0	< 34.0	40.0	46.0
402.3	< 16	21	18.3	< 34.3	39.3	46.0
423.3	21	< 16	18.6	39.6	< 34.6	46.0
440.3	20	< 16	18.9	38.9	< 34.9	46.0
500	< 16	< 16	19.7	< 35.7	< 35.7	46.0
800	< 16	< 16	23.7	< 39.7	< 39.7	46.0
1000	< 16	< 16	26.5	< 42.5	< 42.5	54.0



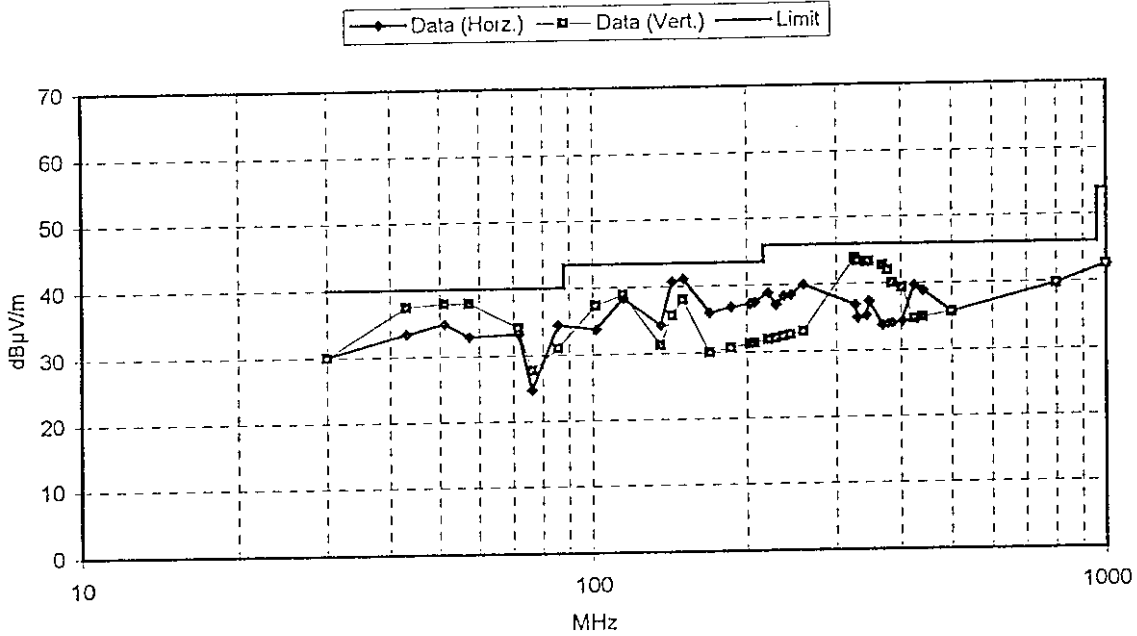
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International Electrical Certification Centre Ltd.

Interference Radiation 30MHz-1000MHz  
Acc: FCC Part 15 Subpart B

IECC Ref: 16865/8/200F  
Model: VENTURER CDG2-S  
Applicant: ALCO ELECTRONICS LTD  
Ser.Nr.: 1  
Set under test: CD Graphic Player with Cassette Recorder Echo Sound and Vocal Changer  
Connected sets: -  
Operating mode: Power "On" (CD Playing)  
Class: B

Test Equipment  
Receiver: ESVP Rohde & Schwarz  
Antenna: Schwarzbeck BBA 9106  
and UHALP 9107



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# Notes for Radiation Measurement

- 1. Measurement facility:**  
Measurement facility located at Fanling (Hong Kong), placed on file with the FCC Pursuant to Section 2.948 of the FCC Rules.
- 2. Distance between the EUT and measuring antenna:**  
3 meters.
- 3. Measuring instrumentations:**  
Rohde & Schwarz ESVP Test Receiver ( 20 - 1300 MHz ) with a CISPR weighting QP detector, 6 dB bandwidth set at 120 KHz.
- 4. Measuring antenna:**  
Broad-band antenna for the frequency range 30 - 300 MHz and frequency range 300 - 1000 MHz, connected with 10 meters coaxial cable. Cable loss of the coaxial cable included in the Antenna Factor for measurement data. The antennas are capable of measuring both horizontal and vertical polarizations.
- 5. Frequency range scanned:**  
The frequency range 30 - 1000 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.
- 6. Arrangement of EUT:**  
During the test, the sample was operated at rated supply voltage and arranged for maximum emissions.
- 7. Measuring Procedure:**  
In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'.



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International Electrical Certification Centre Ltd.

Interf. Voltage 450 KHz - 25 MHz  
Acc: FCC Part 15 Subpart B

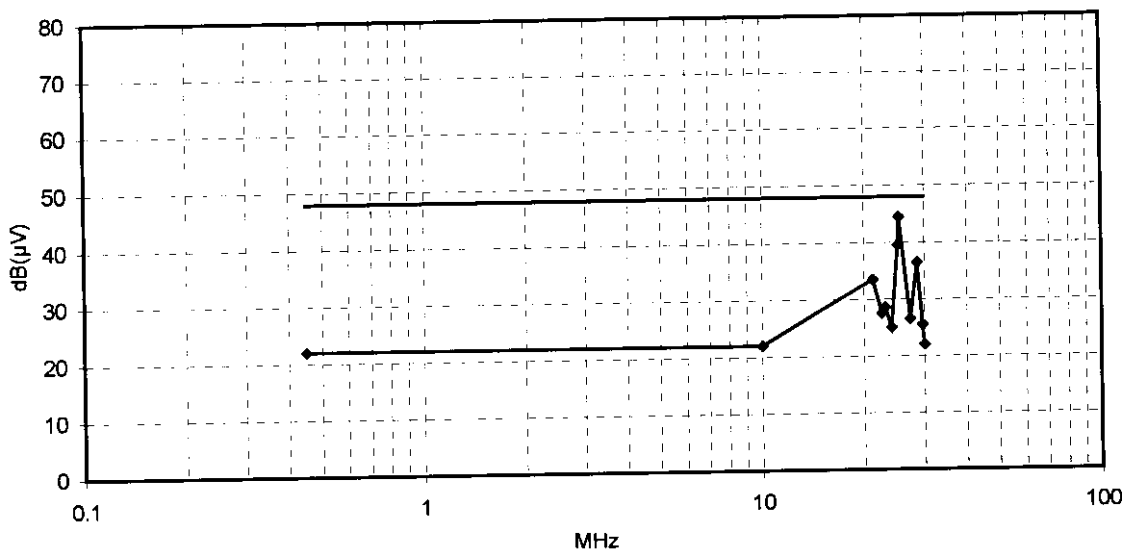
IECC Ref: 16865/8/200F  
Model: VENTURER CDG2-S  
Applicant: ALCO ELECTRONICS LTD

Test Equipment  
Receiver: Rohde & Schwarz ESH 3  
Schwarzbeck NNLA 8119

Ser.Nr.: 1  
Set under test: CD Graphic Player with Cassette Recorder Echo Sound and Vocal Changer  
Connected sets: -  
Operating mode: Power "On"

Frequency (MHz)	Reading dB(μV)	Test Result dB(μV)	Limit dB(μV)
0.45	< 22	< 22	48
10	< 22	< 22	48
21.17	33.5	33.5	48
22.58	27.5	27.5	48
23.07	28.5	28.5	48
24.12	25	25	48
25.16	39.5	39.5	48
25.41	44.5	44.5	48
27.26	26.5	26.5	48
28.64	36.5	36.5	48
29.64	25.5	25.5	48
30	< 22	< 22	48

◆ Data — Limit



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# Notes for Voltage Measurement

1. **LISN (Line Impedance Stabilization Network) used:**  
50  $\mu$ H LISN in accordance with Section 4 of ANSI C63.4-1992.
  
2. **Measuring instrumentations:**  
Rohde & Schwarz ESH3 Test Receiver ( 9 KHz - 30 MHz ) with a CISPR weighting QP detector, 6 dB bandwidth set at 10 KHz.
  
3. **Frequency range scanned:**  
The frequency range 450 KHz - 30 MHz has been scanned. Readings of the highest emissions relating to the limit were reported as above.
  
4. **Setup of EUT:**  
Connection of equipment and operation conditions are the same as those in the Radiation measurement.
  
5. **Measuring Procedure:**  
In accordance with the relevant sections of the American National Standards Institute (ANSI) C63.4-1992 'Methods of Measurement of Radio Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9KHz to 40GHz'