



**CMA Testing  
and Certification  
Laboratories**

廠商會檢定中心

**TEST REPORT**

Report No. : AM0020155(2) Date : 2010-09-13

Application No. : LM001884(0)

Client : Konami Digital Entertainment, INC.  
2381 Rosecrans Avenue, Suite 200,  
EL Segundo, CA 90245, U.S.A.

Sample Description : One(1) submitted sample(s) stated to be PS3 "Dance Dance Revolution" Dance  
Mat of Model No. 25093  
Rating : USB DC 5V  
No. of submitted sample : Four (4) piece(s)

Date Received : 2010-05-11.

Test Period : 2010-05-19 to 2010-05-25.

Test Requested : FCC Part 15 Certification.

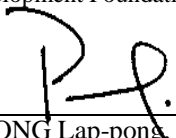
Test Method : 47 CFR Part 15 (10-1-09 Edition)  
ANSI C63.4 – 2003

Test Result : See attached sheet(s) from page 2 to 11.

Conclusion : The submitted sample was found to comply with requirement of FCC Part 15  
Subpart B.

*For and on behalf of*  
CMA Industrial Development Foundation Limited

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

  
Mr. WONG Lap-pong, Andrew  
Assistant Manager  
Electrical Division

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FCC ID: YOH25093

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CMA Industrial Development Foundation Limited

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### **1 General Information**

#### **1.1 General Description**

The equipment under test (EUT) is a PS3 “Dance Dance Revolution” Dance Mat. The oscillation of MCU is generated by a crystal. The EUT is powered by USB DC 5V. When the button on the mat is pressed, the PS3 will take the corresponding action and display on the TV.

The brief circuit description is listed as follows:

- U1 and associated circuit act as an USB controller.
- U2 and associated circuit act as a voltage regulator.



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### **1.2 Location of the test site**

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003. A Semi-Anechoic Chamber Testing Site is set up for investigation and located at:

Ground Floor, Yan Hing Centre,  
9 – 13 Wong Chuk Yeung Street,  
Fo Tan, Shatin,  
New Territories,  
Hong Kong.

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. A shielded room is located at :

Ground Floor, Yan Hing Centre,  
9 – 13 Wong Chuk Yeung Street,  
Fo Tan, Shatin,  
New Territories,  
Hong Kong.

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### 1.3 List of measuring equipment

| Equipment         | Manufacturer | Model No. | Serial No. | Calibration Due Date |
|-------------------|--------------|-----------|------------|----------------------|
| EMI Test Receiver | R&S          | ESCI      | 100152     | 23 Dec, 2010         |
| Broadband Antenna | Schaffner    | CBL6112B  | 2718       | 04 Aug, 2010         |
| LISN              | R&S          | ESH3-Z5   | 100010     | 17 Sep, 2010         |

### 1.4 List of supporting equipment

PS3

Model No.: DECHJ00A

Serial No.: 00-27450172-0402849-DECHJ00A

### 1.5 Measurement Uncertainty

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a level of confidence of approximately 95%.

#### Radiated emissions

| Frequency                     | Uncertainty ( $U_{lab}$ ) |
|-------------------------------|---------------------------|
| 30MHz ~ 200MHz (Horizontal)   | 4.63dB                    |
| 30MHz ~ 200MHz (Vertical)     | 4.64dB                    |
| 200MHz ~ 1000MHz (Horizontal) | 4.65dB                    |
| 200MHz ~ 1000MHz (Vertical)   | 4.64dB                    |

#### Conducted emissions

| Frequency      | Uncertainty ( $U_{lab}$ ) |
|----------------|---------------------------|
| 150kHz ~ 30MHz | 3.04dB                    |



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### **2 Description of the radiated emission test**

#### **2.1 Test Procedure**

Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2003.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is placed 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1 m above the ground.

The device was rotated through three orthogonal axes to determine which attitude and configuration produce the highest emission during measurement for Radiated Emission measurement.

#### **2.2 Test Result**

The frequencies from 30MHz to 1000MHz were investigated, and emissions more 20dB below limit were not reported. Thus, those highest emissions were presented in next page (section 2.3)

The emissions meeting the requirement of section 15.109 are based on measurements employing the CISPR quasi-peak detector below 1000MHz and average detector for frequencies above 1000MHz.

It was found that the EUT meets the FCC requirement.



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### 2.3 Radiated Emission Measurement Data

#### **Radiated emission**

**pursuant to**

**the requirement of FCC Part 15 subpart B**

Environmental conditions:

| Parameter            | Recorded value |     |
|----------------------|----------------|-----|
| Ambient temperature: | 28             | ° C |
| Relative humidity:   | 62             | %   |

| Frequency<br>(MHz) | Polarity<br>(H/V) | Reading<br>at 3m<br>(dBμV) | Antenna Factor<br>and Cable Loss<br>(dB/m) | Field Strength<br>at 3m<br>(dBμV/m) | Limit at 3m<br>(dBμV/m) | Margin<br>(dB) |
|--------------------|-------------------|----------------------------|--|-------------------------------------|-------------------------|----------------|
| 33.517             | V                 | 11.4                       | 18.5                                       | 29.9                                | 40.0                    | -10.1          |
| 48.003             | V                 | 18.9                       | 10.9                                       | 29.8                                | 40.0                    | -10.2          |
| 84.001             | V                 | 17.9                       | 7.8  | 25.7                                | 40.0                    | -14.3          |
| 125.001            | H                 | 7.6                        | 12.6                                       | 20.2                                | 43.5                    | -23.3          |
| 150.000            | H                 | 12.9                       | 12.3                                       | 25.2                                | 43.5                    | -18.3          |
| 210.001            | H                 | 15.6                       | 10.3                                       | 25.9                                | 43.5                    | -17.6          |
| 222.004            | H                 | 17.5                       | 10.3                                       | 27.8                                | 46.0                    | -18.2          |
| 252.006            | H                 | 19.7                       | 14.1                                       | 33.8                                | 46.0                    | -12.2          |
| 288.003            | H                 | 23.3                       | 14.1                                       | 37.4                                | 46.0                    | -8.6           |
| 383.998            | H                 | 16.5                       | 15.9                                       | 32.4                                | 46.0                    | -13.6          |

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### **3 Description of the Line-conducted Test**

#### **3.1 Test Procedure**

Conducted emissions measurements are investigated and also taken pursuant to the procedures of ANSI C63.4 – 2003. The EUT was setup as described in the procedures, and both lines were measured.

#### **3.2 Test Result**

The EUT was connected to a PS3 and the disturbance voltage from PS3 was measured.

It was found that the EUT meets the FCC requirement.

#### **3.3 Graph and Table of Conducted Emission Measurement Data**

For electronic filling, the document is saved with filename TestRpt2.pdf.





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### **4 Photograph**

#### **4.1 Photographs of the Test Setup for Radiated Emission and Conducted Emission**

For electronic filing, the photos are saved with filename TSup1.jpg to TSup5.jpg.

#### **4.2 Photographs of the External and Internal Configurations of the EUT**

For electronic filing, the photos are saved with filename ExPho1.jpg to ExPho2.jpg and InPho1.jpg to InPho2.jpg.



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### 5 Supplementary document

The following document were submitted by applicant, and for electronic filing, the document are saved with the following filenames:

| Document                | Filename     |
|-------------------------|--------------|
| ID Label/Location       | LabelSmp.jpg |
| Block Diagram           | BlkDia.pdf   |
| Schematic Diagram       | Schem.pdf    |
| Users Manual            | UserMan.pdf  |
| Operational Description | OpDes.pdf    |

#### 5.1 Bandwidth

Not Applicable

#### 5.2 Duty cycle

Not Applicable

#### 5.3 Transmission time

Not Applicable



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### 6 Appendices

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| A2  | Photos of the set-up of Conducted Emissions | 2 | pages |
| A3  | Photos of External Configurations           | 1 | page  |
| A4  | Photos of Internal Configurations           | 1 | page  |
| A5  | ID Label/Location                           | 1 | page  |
| A6  | Conducted Emission Measurement Data         | 2 | pages |
| A7  | Block Diagram                               | 1 | page  |
| A8  | Schematics Diagram                          | 1 | page  |
| A9  | User Manual                                 | 5 | pages |
| A10 | Operation Description                       | 1 | page  |

\*\*\*\*\* End of Report \*\*\*\*\*