



**FCC CFR47 PART 15 SUBPART C  
INDUSTRY CANADA RSS-210 ISSUE 8**

**CERTIFICATION TEST REPORT**

**FOR**

**Wii Remote Plus**

**MODEL NUMBER: RVL-036**

**FCC ID: BKERV036  
IC: 4360A-RVL036**

**REPORT NUMBER: 31JE0311-SH-01-A**

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*Prepared for*

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Revision History

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** NINTENDO CO., LTD  
11-1 KAMITIBA-HOKOTATE-CHO, MINAMI-KU  
KYOTO, 601-8501, JAPAN

**EUT DESCRIPTION:** Wii Remote Plus

**MODEL:** RVL-036

**SERIAL NUMBER:** 40PWB-EN NO8 (Radiated tests below 1GHz),  
RCDP2-A0187 (Radiated tests above 1GHz)  
RCDP2-A0001 (Conducted tests)

**DATE TESTED:** JULY 8-12 and AUGUST 30, 2011

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

UL Japan, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Japan, Inc based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Japan, Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Japan, Inc. will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by any government agency.

Approved & Released For UL Japan, Inc. By:                      Tested By:



Go Ishiwata  
Manager of WiSE Japan,  
UL Verification Service



Akio Hayashi  
Engineer of WiSE Japan,  
UL Verification Service

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa-ken, 259-1220 JAPAN.

UL Japan is accredited by JAB, Laboratory Code RTL02610. The full scope of accreditation can be viewed at

[http://www.jab.or.jp/cgi-bin/jab\\_exam\\_proof\\_j.cgi?page=2&authorization\\_number=RTL02610](http://www.jab.or.jp/cgi-bin/jab_exam_proof_j.cgi?page=2&authorization_number=RTL02610)

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY	
Radiated Emission	30MHz-300MHz(3m)	+/- 4.7 dB
	300MHz-1000MHz(3m)	+/- 4.5 dB
	1000MHz-13GHz(3m)	+/- 3.9 dB
	13GHz-18GHz(1m)	+/- 4.8 dB
	18GHz-26.5GHz(1m)	+/- 4.2 dB

Uncertainty figures are valid to a confidence level of 95% using a coverage factor k=2..

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

The EUT is a Bluetooth Remote control unit, powered by battery.

The radio module is manufactured by CSR.

### 5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Channel	Frequency (MHz)	20 dB Bandwidth (kHz)	99% Bandwidth (kHz)
Low	2402	881.621	889.5282
Middle	2441	882.285	886.9304
High	2480	883.065	882.2608

\* Refer to Section 7.1.5.

### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes  $\lambda/4$  PIFA antenna, with a maximum gain of 1.83 dBi.

### 5.4. SOFTWARE AND FIRMWARE

The test utility software used during testing: fs\_1012201147 + 20110614\_No01

### 5.5. WORST-CASE CONFIGURATION AND MODE

The fundamental and spurious was measured in three different orientations X, Y and Z to find worst-case orientation, and final testing for radiated emissions was performed with EUT in following orientation.

	Horizontal	Vertical
Carrier	X	Z
Spurious (above 1GHz)	Z	Y
Spurious (below 1GHz)	Z	X

The worst-case channel is determined as the channel with the highest output power, radiated emissions below 1 GHz and power line conducted emissions were performed with the EUT set to the channel with highest output power.

## 5.6. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST			
Description	Manufacturer	Model	Serial Number
Nunchuk	NINTENDO	RVL-004	RCDP2-A0187
JIG	NINTENDO	-	-

### I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC Input	1	DC	Un-Shielded	2m	N/A
2	Signal	1	Signal	Shielded	0.9m	N/A

**SETUP DIAGRAM FOR RADIATED TESTS**

