

RF EXPOSURE EVALUATION REPORT

APPLICANT: EmdoorVR Technology Co.,Ltd

PRODUCT NAME: Wireless Controller

MODEL NAME : XCR2

BRAND NAME: Variety Products,LLC.

FCC ID : 2ANTOEM-XCR2

STANDARD(S) : 47CFR 2.1093

KDB 447498 D01 General RF Exposure Guidance v06

ISSUE DATE : 2017-11-03

Tested by: Peng Fuwei (Test engineer)

Approved by:

Peng Huarui (Supervisor)

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Change History			
Issue Date		Reason for change	
1.0 2017-11-03		First edition	



1. Technical Information

Note: Provide by manufacturer.

1.1. Applicant and Manufacturer Information

Applicant:	EmdoorVR Technology Co.,Ltd
Applicant Address	811/F JinFuLai Building,49-1 Dabao Road, Bao An District,
Applicant Address:	Shenzhen
Manufacturer: EmdoorVR Technology Co.,Ltd	
Manufactura Adda a	811/F JinFuLai Building,49-1 Dabao Road, Bao An District,
Manufacturer Address:	Shenzhen

1.2. Equipment Under Test (EUT) Description

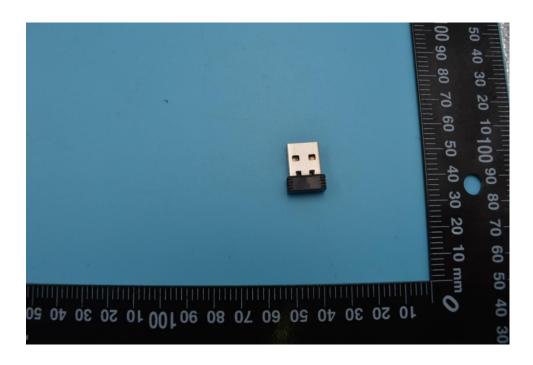
EUT Type:	Wireless Controller
Hardware Version:	BM-311VER1.3
Software Version:	V1.8
Frequency Bands:	2.4G:2405-2475MHz;
Modulation Mode:	GFSK;
Antenna type:	PCB Antenna



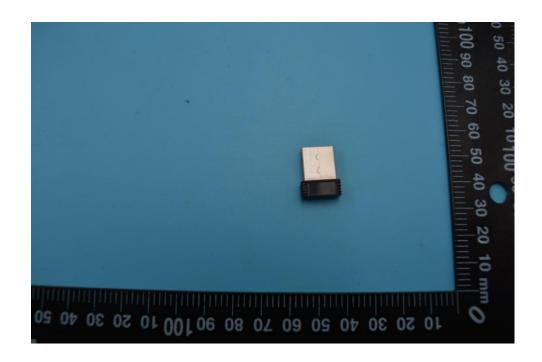


1.3. Photographs of the EUT

1. EUT front view



2. EUT rear view





FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,



1.3.1. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity		Hardware Version	Software Version
	1#	BM-311VER1.3	V1.8

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable
		devices
2	KDB 447498 D01v06	General RF Exposure Guidance

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2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Game pad. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.





3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. 2.4G Wifi average output power

Band	Channel	Frequency (MHz)	Output Power(dBm) GFSK
	0	2405	-8.71
2.4G	36	2440	-8.44
	70	2475	-8.42



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4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation Distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] ≤ 3.0

The maximum tune-up limit power is 0.144mW @ 2.475GHz

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When Game pad is used on the hand, so use 5mm as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =**0.045** \leq 3.0

So SAR evaluation is not required for this device.





ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

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Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.		
Department:	Morlab Laboratory		
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang		
	Road, Block 67, BaoAn District, ShenZhen, GuangDong		
	Province, P. R. China		
Responsible Test Lab Manager:	Mr. Su Feng		
Telephone:	+86 755 36698555		
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2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
	Morlab Laboratory
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