



## RF EXPOSURE REPORT

**Product:** Remote Controller

Model Name: D23

FCC ID: 2AQ95-NIUD23

Applicant: Beijing Niu Technology Co., Ltd

Address: 11F, Fangheng Times Center Block A (Lianluo Building), No. 10

Wangjing street, Chaoyang, Beijing, China

Manufacturer: Jiangsu Niu Electric Technology Co., Ltd.

Address: No.5 Lingxiang Rd, WEZ, Wujin, Changzhou, Jiangsu Province

Prepared by: BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Location: No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue,

North Area, Hi-Tech Industrial Park, Nanshan District,

Shenzhen, Guangdong, China

**TEL:** +86 755 8869 6566

**FAX:** +86 755 8869 6577

**E-MAIL:** customerservice.dg@cn.bureauveritas.com

**Report No.:** SA180830W001

Received Date: Dec. 03, 2018

**Test Date:** Dec. 04, 2018 ~ Jan. 04, 2019

**Issued Date:** Jan. 07, 2019

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# **RELEASE CONTROL RECORD**

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA180830W001	Original release	Jan. 07, 2019

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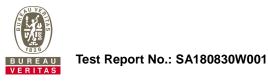
**BV 7Layers Communications Technology** 

(Shenzhen) Co. Ltd

Email: <a href="mailto:customerservice.dg@cn.bureauveritas.com">customerservice.dg@cn.bureauveritas.com</a>

Tel: +86 755 8869 6566

Fax: +86 755 8869 6577



### 1 CERTIFICATION

**PRODUCT:** Remote Controller

**BRAND NAME**: NIU **MODEL NAME**: R800

APPLICANT: Beijing Niu Technology Co., Ltd

**TESTED:** Dec. 04, 2018 ~ Jan. 04, 2019

**TEST SAMPLE:** Production Unit

STANDARDS: FCC Part 2 (Section 2.1093)

KDB 447498 D01 General RF Exposure Guidance v06

**IEEE C95.1** 

The above equipment has been tested by **BV 7Layers Communications Technology (Shenzhen) Co. Ltd** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :		,	DATE:	Jan. 07, 2019	
	(Roger Li / Engineer)		<del>-</del>		

(Sam Tung / Manager)

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### 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Remote Controller
MODEL NAME	D23
NOMINAL VOLTAGE	3Vdc (button battery)
OPERATING TEMPERATURE RANGE	-20 ~ 70°C
MODULATION TYPE	ASK
OPERATING FREQUENCY	ASK
ANTENNA GAIN	PCB Antenna with 1.5dBi gain
HW VERSION	HRXN-D23-2150L-FCC-C20180926
SW VERSION	HR-2150L-V1.0-C1CF
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

#### NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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Tel: +86 755 8869 6566



#### 3 RF EXPOSURE

Per KDB 447498 D01, for 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]  $\cdot$  [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR,

f(GHz) is the RF channel transmit frequency in GHz;

Power and distance are rounded to the nearest mW and mm before calculation;

The result is rounded to one decimal place for comparison;

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 3.1 CALCULATION RESULT

Frequency (MHz)	Max. Tune-up Power (dBm)	Test Position	Separation Distance (mm)	Max. Tune-up (mW)	√f(GHz)	Calculation Result	limit:3.0(1g)
315	-1.0	Body	5	0.79	0.561	0.1	No

#### 3.2 CONCLUSION

According to the KDB447498 D01, the RF exposure analysis concludes that the SAR test is no required, and compliant the FCC Rule.

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