

# RF EXPOSURE REPORT

**Product:** Remote Controller

**Model Name:** D23

**FCC ID:** 2AQ95-NIUD23

**Applicant:** Beijing Niu Technology Co., Ltd

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**Manufacturer:** Jiangsu Niu Electric Technology Co., Ltd.

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**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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## 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 :** Roger, **DATE:** Jan. 07, 2019  
(Roger Li / Engineer)

**APPROVED BY :** [Signature], **DATE:** Jan. 07, 2019  
(Sam Tung / Manager)

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

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

### 3 RF EXPOSURE

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

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

$f(\text{GHz})$  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)	$\sqrt{f}(\text{GHz})$	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 not required, and compliant with the FCC Rule.

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