

RF EXPOSURE **EXEMPT REPORT**

: Shenzhen Snoppa Technology Co., Ltd **APPLICANT**

: Vmate Gimbal Camera PRODUCT NAME

MODEL NAME : S191

BRAND NAME : SNOPPA

FCC ID : 2AIXRVMATE

STANDARD(S) : 47CFR 2.1093

KDB 447498

RECEIPT DATE : 2020-03-20

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Edited by:

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Change History				
Version	Version Date Reason for Change			
1.0	2020-04-03	First edition		



1. Technical Information

Note: Provide by applicant.

1.1 Applicant and Manufacturer Information

Applicant:	Shenzhen Snoppa Technology Co., Ltd
Applicant Address:	410 room NO.2 Building Nanhaiyiku NO.6 Xinghua Road
Applicant Address:	Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Snoppa Technology Co., Ltd
Manufacturer Address	410 room NO.2 Building Nanhaiyiku NO.6 Xinghua Road
Manufacturer Address:	Nanshan District, Shenzhen, China

1.2 Equipment Under Test (EUT) Description

Product Name:	Vmate Gimbal Camera
Serial No:	(N/A, marked #1 by test site)
Hardware Version:	V2.1
Software Version:	V4.9.37
Equipment Type:	Bluetooth LE
	IEEE 802.11ac(VHT80)
Bluetooth Version:	4.2
Operating Frequency Range:	2402MHz - 2480MHz ;
Operating Frequency Range.	5180 MHz- 5240MHz;
Modulation Type:	BLE:GFSK
Modulation Type.	IEEE 802.11ac:OFDM
Antenna Type:	Ceramic Antenna
Antenna Gain:	2.3dBi

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1.3 Applied Reference Documents

Leading reference documents for testing:

No.	ldentity	Document Title	Method determination /Remark
1	47 CFR§2.1093	Radio Frequency Radiation Exposure Evaluation: portable devices	No deviation
2	KDB 447498 D01v06	General RF Exposure Guidance	No deviation

Note 1: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.





2. Device Category and RF Exposure Limit

Per user manual, this device is a ClearDryve 220. 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.



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3. RF Output Power

<Bluetooth Output Power>

Mode	Channel	Frequency	Average power (dBm)
iviode		(MHz)	1Mbps
	0	2402	1.37
BLE	19	2440	0.60
	39	2480	1.41
Tune-up Limit			2.00

<802.11ac (VHT80) Output Power>

Mode	Channel	Frequency (MHz)	Average power (dBm)
802.11ac	802.11ac 42 5210		0.000011
Tune-up Limit		i	0.5

Note 1: According to KDB 447498 Section 4.3, SAR test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

Note 2: The output power refers to report (Report No.: SZ19120156W01/W02).

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4. RF Exposure Evaluation

> 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)]·[√f(GHz)] ≤ 3.0.
 - · 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
- 2. When the device is used, 5mm as the most conservative minimum test separation distance was used for evaluating.

BLE Mode

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test Distance (mm)	Result	Exclusion Thresholds for 1-g SAR
CH 39	2.480	2.00	1.58	5	0.50	3.0

IEEE 802.11ac mode

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test Distance (mm)	Result	Exclusion Thresholds for 1-g SAR
CH 42	5.210	0.5	1.12	5	0.51	3.0

Note: The conduction power was rounded in mW.

3. When standalone SAR is not required to be measured, per FCC KDB 447498 D01v06 4.3.2), the following equation must be used to estimate the standalone 1g SAR.

Estimated SAR =
$$\frac{\sqrt{f(GHz)}}{7.5} \cdot \frac{\text{Max. power of channel, mW}}{\text{Min. Separation Distance, mm}}$$

> Conclusion:

SAR evaluation is not required.





Annex A Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

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

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory	
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong	
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END OF REPORT	

