

RF EXPOSURE REPORT

Applicant	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center, Haixiu Road, Bao'an District, Shenzhen, China

Manufacturer or Supplier	Shenzhen Arashi Vision Company Limited				
Address	6/F, Building A, Logan Century Center, Haixiu Road, Bao'an District, Shenzhen, China				
Product	Insta360 ONE R				
Brand Name	Insta360				
Model	CINORAH/A				
Additional Model & Model Difference	CINORAH/X (X can be changed with the way change of packing, from B,C,D to Z), see items 1.1				
Date of tests	Sep. 19, 2019 ~ Nov. 07, 2019				

FCC Part 2 (Section 2.1093)

Tested by Andy Zhu

- **⊠ KDB 447498 D01**
- **◯** IEEE C95.1

CONCLUSION: The submitted sample was found to **COMPLY** with the test requirement

Project Engineer / EMC Department	Assistant Manager / EMC Department		
Snely	Detai Nov. 15, 2010		

Date: Nov. 15, 2019

Approved by Glyn He

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
FM190919N042	Original release	Nov. 15, 2019	

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1. CERTIFICATION

FCC ID:	2AFSH-CINORAH-A			
PRODUCT:	Insta360 ONE R			
BRAND NAME:	Insta360			
MODEL NO.:	CINORAH/A			
ADDITIONAL NO.:	CINORAH/X (X can be changed with the way change of packing, from B,C,D to Z)			
TEST SAMPLE:	Engineering Sample			
APPLICANT: Shenzhen Arashi Vision Company Limited				
STANDARDS:	FCC Part 2 (Section 2.1093)			
	KDB 447498 D01			
	IEEE C95.1			

Note1: Additional model (See above table) is identical with the test model CINORAH/A except the packing method and model number for marketing purpose.

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2. RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- > 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

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·(f(MHz)/150)] mW, at 100MHz to 1500 MHz
- b) [Threshold at 50 mm in step 1) + (test separation distance 50 mm)·10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by [1 + log(100/f(MHz))] for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances \leq 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

3. CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as **Portable Device.**

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4. SAR TEST EXCLUSION THRESHOLDS

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412-2462MHz	8.5	+-1	7.5	9.5
802.11g	2412-2462MHz	8.5	+-1	7.5	9.5
802.11n HT20	2412-2462MHz	8.5	+-1	7.5	9.5
Wi-Fi 5GHz(Band1)	5150-5250MHz	7	+-1	6	8
Wi-Fi 5GHz(Band4)	5725-5850MHz	6.5	+-1	5.5	7.5

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	9.22
802.11g	2412	9.05
802.11n HT20	2462	9.17
Wi-Fi 5GHz(Band1)	5240	7.86
Wi-Fi 5GHz(Band4)	5825	7.32

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SAR Test Exclusion Thresholds

Mode	Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremit y SAR	Verdict
Wi-Fi 2.4GHz	2462	9.5	5	2.797	3.0	7.5	Exempt from SAR
Wi-Fi 5GHz (Band1)	5240	8	5	2.889	3.0	7.5	Exempt from SAR
Wi-Fi 5GHz (Band4)	5825	7.5	5	2.714	3.0	7.5	Exempt from SAR

Conclusion

Therefore our device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.

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