



Test Report No.: FM180705N021

RF EXPOSURE REPORT

Applicant	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center Haixiu Road, Bao an District Shenzhen Guangdong 518000 China

Manufacturer or Supplier	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center Haixiu Road, Bao an District Shenzhen Guangdong 518000 China
Product	Insta360 ONE X
Brand Name	Insta360
Model	CINONEX/A
Additional Model & Model Difference	CINONEX
Date of tests	Jul. 05, 2018 ~ Sep. 12, 2018

FCC Part 2 (Section 2.1093)

KDB 447498 D01

IEEE C95.1

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

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department

Date: Sep. 13, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180705N021	Original release	Sep. 13, 2018

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1. CERTIFICATION

FCC ID:	2AFSH-CINONEX-A
PRODUCT:	Insta360 ONE X
BRAND NAME:	Insta360
MODEL NO.:	CINONEX/A
ADDITIONAL NO.:	CINONEX
TEST SAMPLE:	Engineering Sample
APPLICANT:	Shenzhen Arashi Vision Company Limited
STANDARDS:	FCC Part 2 (Section 2.1093)
	KDB 447498 D01
	IEEE C95.1



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)] $\cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where
 - $f(\text{GHz})$ 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 comparisonThe test exclusions are applicable only when the minimum test separation distance is ≤ 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) $\cdot (f(\text{MHz})/150)$] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) $\cdot 10$] 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 $[1 + \log(100/f(\text{MHz}))]$ 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 ≤ 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)
BT-LE (GFSK)	2402-2480MHz	-3	+/-1	-4	-2
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)
BT-LE (GFSK)	2480	-2.25
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



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 extremity SAR	Verdict
BT 2.4GHz	2480	-2	5	0.199	3.0	7.5	Exempt from SAR
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.