



Test Report No.: FM180703N033



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 Pro 2
Brand Name	Insta360
Model	TINPPR2/A
Additional Model & Model Difference	TINPPR2
Date of tests	Jul. 03, 2018 ~ Sep. 10, 2018

- FCC Part 2 (Section 2.1091)
- 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. 26, 2018

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180703N033	Original release	Sep. 26, 2018

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1. CERTIFICATION

PRODUCT: Insta360 Pro 2
BRAND NAME: Insta360
MODEL NO.: TINPPR2/A
ADDITIONAL MODEL: TINPPR2
FCC ID: 2AFSH-TINPPR2-A
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Shenzhen Arashi Vision Company Limited
TESTED DATES: Jul. 03, 2018 ~ Sep. 10, 2018
STANDARDS: FCC Part 2 (Section 2.1091)
KDB 447498 D01
IEEE C95.1



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. CLASSIFICATION

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

5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Frequency Band	Antenna Gain (dBi)	Antenna Type
Wi-Fi 2.4GHz	3.4	Dipole Antenna
Wi-Fi 5GHz (5150-5250MHz)	4.1	Dipole Antenna
Wi-Fi 5GHz (5725-5850MHz)	2.9	Dipole Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned Maximum Conducted Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412-2462MHz	14	+1	13	15
802.11g	2412-2462MHz	20	+1	19	21
802.11n HT20	2412-2462MHz	20	+1	19	21
Wi-Fi 5GHz(Band1)	5150-5250MHz	8	+4	4	12
Wi-Fi 5GHz(Band4)	5725-5850MHz	8	+4	4	12

The measured Maximum Conducted Power

Mode	Frequency (MHz)	Maximum Conducted Power (dBm)
802.11b	2437	14.71
802.11g	2437	20.16
802.11n HT20	2437	20.57
Wi-Fi 5GHz(Band1)	5240	11.73
Wi-Fi 5GHz(Band4)	5745	10.81



FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
Wi-Fi 2.4GHz	21	3.4	20	0.054793	1.0
Wi-Fi 5GHz	12	4.1	20	0.008105	1.0

CONCLUSION:

Both of the WLAN 2.4GHz and 5GHz can not transmit simultaneously.

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