RF EXPOSU7RE REPORT

Applicant:	WECCAN (VIETNAM) TECHNOLOGY COMPANY LIMITED
Address:	Lot M7, Road No.2, Dau Giay IP, Thong Nhat District, Dong Nai Province, Vietnam

Manufacturer or Supplier	WECCAN (VIETNAM) TECHNOLOGY COMPANY LIMITED
Address	Lot M7, Road No.2, Dau Giay IP, Thong Nhat District, Dong Nai Province, Vietnam
Product	Drone Mach 10inch with Camera Streaming
Brand Name	Sharper Image
Model	1019558
Additional Model & Model Difference	101XXXX (where XXXX can be digits 0000-9999 which represent different customers), see items 3.1
Date of tests	Jul. 03, 2025 ~ Jul. 18, 2025

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01 V06**

☒ **IEEE C95.1**

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

Prepared by Andrew Sha Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Aug. 14, 2025

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2506WDG0302-1	Original release	Aug. 14, 2025

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1. CERTIFICATION

FCC ID:	2BRQ8-TSGF69R
PRODUCT:	Drone Mach 10inch with Camera Streaming
BRAND NAME:	Sharper Image
MODEL NO.:	1019558
ADDITIONAL NO.:	101XXXX (where XXXX can be digits 0000-9999 which represent different customers)
TEST SAMPLE:	Engineering Sample
APPLICANT:	WECCAN INDUSTRIAL LIMITED
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 V06
	IEEE C95.1

Note: Additional models (see above table) are identical with the test model 1019558 except model no. for trading purposes.

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/cm^2

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:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2.31	Monopole Antenna
Chain 31	0	Wire Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

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	12	+-2	10	14
802.11g	2412	7	+-2	5	9
802.11n(HT20)	2412	7	+-2	5	9
2.4G wireless (2445-2475MHz)	2475	-22	+-2	-24	-20

The measured conducted Average Power for 2.4GHz WiFi

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2412	11.65
802.11g	2412	6.28
802.11n(HT20)	2412	6.30

The measured conducted Average Power for 2.4GHz wireless

Mode	Frequency (MHz)	Averaged Power (dBuV/m)	Averaged Power (dBm)
2.4G wireless (2445-2475MHz)	2475	73.09	-22.14

TEST MODE	FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
2.4GHz WiFi	2412	14	2.31	20	0.08510	1.0
2.4G wireless	2475	-20	0	20	0.0000019	1.0

CONCLUSION:
The 2.4GHz WiFi and 2.4G wireless can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1
CPD = Calculation power density
LPD = Limit of power density

(0.08510/1) + (0.0000019/1) = 0.0851019<1, which is less than the “1” limit.

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