



Test Report

Report No.: RKEYS251106253

Date: Nov. 24, 2025

Page 1 of 6

RF EXPOSURE EVALUATION REPORT

for

Product:IR Module Camera

Model:MD200FHDW-IR

FCC ID: 2BRCN-MD200FHDW-IR

Report No.: RKEYS251106253

Issued for

Damoa Cam Co., Ltd.

402, Building C, Woorim Lions Valley, 425 Cheongcheon-dong,

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

TABLE OF CONTENTS

1. TEST CERTIFICATION	3
2. GENERAL INFORMATION	4
2.1. GENERAL DESCRIPTION OF E.U.T.	4
3. RF EXPOSURE EVALUATION	5
3.1. LIMITS	5
3.2. CALCULATION METHOD	5
3.3. TEST RESULT	5
3.4. CONCLUSION	6

1. TEST CERTIFICATION

Product: IR Module Camera

Trade mark: /

FCC ID: 2BRCN-MD200FHDW-IR

Main Model: MD200FHDW-IR

Model List(s): N/A

Applicant : Damoa Cam Co., Ltd.

Address: 402, Building C, Woorim Lions Valley, 425 Cheongcheon-dong, Bupyeong-gu, Incheon, South Korea

Manufacturer: Damoa Cam Co., Ltd.

Address: 402, Building C, Woorim Lions Valley, 425 Cheongcheon-dong, Bupyeong-gu, Incheon, South Korea

Applicable Standards: CFR 47, FCC Part 2.1091

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

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Approved by:

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2. GENERAL INFORMATION

2.1. General Description of E.U.T.

Product Name	IR Module Camera
Main Model	MD200FHDW-IR
Specification	2.4G WIFI
Mode	802.11b/g/n20/n40
Operating frequency	2412-24622MHz for 802.11b/g/n20; 2422-24522MHz for 802.11n40;
Number of Channel	11 Channels for 802.11b/g/n20 9 Channels for 802.11n40
Antenna installation	PIFA antenna (declared by manufacturer)
Antenna Gain	2.24dBi
Type of Modulation	DSSS for 802.11b OFDM for 802.11g/n

Note: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. RF EXPOSURE EVALUATION

3.1. Limits

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

3.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm²)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) $\pi=3.142$

3.3. Test Result

Test mode	Maximum Conducted Output Power(dBm)	Tune-up Power(dBm)
b mode	9.91	9±1dBm
g mode	7.74	8±1dBm

n mode	7.97	8±1dBm
BLE	8.14	8±1dBm

The maximum power density at a distance of 0.2 m is shown as below:

Mode	Maximum Tune up Power (dBm)	Antenna Gain (dBi)	Antenna Gain (linear)	Maximum E.I.R.P. (mW)	Power density (mW/cm ²)	Power density Limit (mW/cm ²)	Result
2.4G WIFI	10	2.24	1.67	10	0.0033	1	PASS

3.4. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

**** End of Report ****