

# TEST REPORT

**Product Name** : Dash camera  
**Model Number** : CR273, DCMWM440, DCMAI4  
**FCC ID** : 2AQ7B-CR273

**Prepared for** : Shenzhen Interthings Technology Co., Ltd.  
**Address** : 701, Building 1, Lechuanghui Building, No.1211  
Guanguang Road, Longhua District, Shenzhen, China

**Prepared by** : EMTEK (DONGGUAN) CO., LTD.  
**Address** : 1&2/F., Building 2, Zone A, Zhongda Marine  
Biotechnology Research and Development Base, No.9,  
Xincheng Avenue, Songshanhu High-technology  
Industrial Development Zone, Dongguan, Guangdong,  
China

TEL: +86-0769-22807078  
FAX: +86-0769-22807079

**Report Number** : EDG2607060240E00102R  
**Date of sample receipt** : July 09, 2026  
**Date(s) of Tests** : July 09, 2026 to July 29, 2026  
**Date of issue** : July 30, 2026

## Table of Contents

|                                    |   |
|------------------------------------|---|
| 1. TEST RESULT CERTIFICATION ..... | 3 |
| 2. EUT SPECIFICATION .....         | 5 |
| 3. TEST REQUIREMENT: .....         | 6 |
| RF EXPOSURE EVALUATION .....       | 6 |
| 4. MEASUREMENT RESULT .....        | 7 |



## 1. TEST RESULT CERTIFICATION

Applicant : Shenzhen Interthings Technology Co., Ltd.  
Address : 701, Building 1, Lechuanghui Building, No.1211 Guanguang Road, Longhua District, Shenzhen, China  
Manufacturer : Shenzhen Interthings Technology Co., Ltd.  
Address : 701, Building 1, Lechuanghui Building, No.1211 Guanguang Road, Longhua District, Shenzhen, China  
Factory : Shenzhen Interthings Technology Co., Ltd.  
Address : 701, Building 1, Lechuanghui Building, No.1211 Guanguang Road, Longhua District, Shenzhen, China  
EUT : Dash camera  
Model Name : CR273, DCMWM440, DCMAI4  
Trademark : N/A

Measurement Procedure Used:

| APPLICABLE STANDARDS  |             |
|-----------------------|-------------|
| STANDARD              | TEST RESULT |
| § 15.247(i), § 2.1091 | PASS        |

The above equipment was tested by EMTEK (DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1091.

The test results of this report relate only to the tested sample identified in this report

Date of Test : July 09, 2026 to July 29, 2026

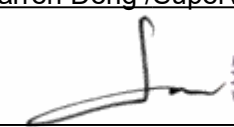
Prepared by :

  
Jessica Zhang /Editor

Reviewer :

  
Warren Deng /Supervisor

Approve & Authorized Signer :

  
Sam Lv / Manager



Modified History

| Version | Report No.           | Revision Date | Summary         |
|---------|----------------------|---------------|-----------------|
|         | EDG2607060240E00102R | /             | Original Report |
|         |                      |               |                 |
|         |                      |               |                 |



## 2. EUT Specification

| Characteristics                       | Description                                                                                                                 |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Product:</b>                       | Dash camera                                                                                                                 |
| <b>Model Number:</b>                  | CR273, DCMWM440, DCMAI4<br>(Note: These models are the same, except for the model number;CR273 was selected for full test.) |
| <b>Sample:</b>                        | E2607060240-01                                                                                                              |
| <b>Device Type:</b>                   | 2.4G WIFI                                                                                                                   |
| <b>Data Rate:</b>                     | 802.11b<br>802.11g<br>802.11n(20MHz channel bandwidth)<br>802.11n(40MHz channel bandwidth)                                  |
| <b>Modulation:</b>                    | DSSS with DBPSK/DQPSK/CCK for 802.11b;<br>OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;                                    |
| <b>Operating Frequency Range(s) :</b> | 2412-2462MHz for 802.11b/g/n(HT20);<br>2422-2452MHz for 802.11n(HT40);                                                      |
| <b>Number of Channels:</b>            | 11 channels for 802.11b/g/n(HT20);<br>7 Channels for 802.11n(HT40);                                                         |
| <b>Transmit Power Max:</b>            | 14.35 dBm(0.027227 W)                                                                                                       |
| <b>Antenna Type:</b>                  | FPC Antenna                                                                                                                 |
| <b>Antenna Gain:</b>                  | 1.29 dBi                                                                                                                    |
| <b>Power Supply:</b>                  | DC 12/24V from adapter<br>DC 3.7V built-in battery                                                                          |
| <b>Evaluation applied:</b>            | <input checked="" type="checkbox"/> MPE Evaluation<br><input type="checkbox"/> SAR Evaluation                               |

### 3. Test Requirement:

## RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

| Frequency Range(MHz)                                         | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density(mW/cm <sup>2</sup> ) | Average Time |
|--------------------------------------------------------------|------------------------------|------------------------------|------------------------------------|--------------|
| <b>(A) Limits for Occupational/Control Exposures</b>         |                              |                              |                                    |              |
| <b>300-1500</b>                                              | --                           | --                           | <b>F/300</b>                       | <b>6</b>     |
| <b>1500-100000</b>                                           | --                           | --                           | <b>5</b>                           | <b>6</b>     |
| <b>(B) Limits for General Population/Uncontrol Exposures</b> |                              |                              |                                    |              |
| <b>300-1500</b>                                              | --                           | --                           | <b>F/1500</b>                      | <b>6</b>     |
| <b>1500-100000</b>                                           | --                           | --                           | <b>1</b>                           | <b>30</b>    |

Friis transmission formula:  $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

$P_d$ = Power density in mW/cm<sup>2</sup>

$P_{out}$ =output power to antenna in mW

$G$ = Numeric gain of the antenna relative to isotropic antenna

$\pi$ =3.1416

$R$ = distance between observation point and center of the radiator in 20 cm

$P_d$  the limit of MPE, 1mW/cm<sup>2</sup>. If we know the maximum gain of the nd total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

## 4. Measurement Result

Antenna gain:

2.4G: 1.29 dBi

| Channel Freq. (MHz) | modulation | conducted power | Tune-up power (dBm) | Max           |        | Antenna |         | Evaluation result | Power density Limits |
|---------------------|------------|-----------------|---------------------|---------------|--------|---------|---------|-------------------|----------------------|
|                     |            | (dBm)           |                     | tune-up power |        | Gain    |         | (mW/cm2 )         | (mW/cm2)             |
|                     |            |                 |                     | (dBm)         | (mW)   | (dBi)   | Numeric |                   |                      |
| 2412                | 11B        | 10.19           | 10±1                | 11            | 12.589 | 1.29    | 1.346   | 0.0034            | 1                    |
| 2437                |            | 11.67           | 11±1                | 12            | 15.849 | 1.29    | 1.346   | 0.0042            | 1                    |
| 2462                |            | 12.42           | 12±1                | 13            | 19.953 | 1.29    | 1.346   | 0.0053            | 1                    |
| 2412                | 11G        | 12.21           | 12±1                | 13            | 19.953 | 1.29    | 1.346   | 0.0053            | 1                    |
| 2437                |            | 13.61           | 13±1                | 14            | 25.119 | 1.29    | 1.346   | 0.0067            | 1                    |
| 2462                |            | 14.34           | 14±1                | 15            | 31.623 | 1.29    | 1.346   | 0.0085            | 1                    |
| 2412                | 11N20SISO  | 12.25           | 12±1                | 13            | 19.953 | 1.29    | 1.346   | 0.0053            | 1                    |
| 2437                |            | 13.63           | 13±1                | 14            | 25.119 | 1.29    | 1.346   | 0.0067            | 1                    |
| 2462                |            | 14.35           | 14±1                | 15            | 31.623 | 1.29    | 1.346   | 0.0085            | 1                    |
| 2422                | 11N40SISO  | 10.46           | 10±1                | 11            | 12.589 | 1.29    | 1.346   | 0.0034            | 1                    |
| 2437                |            | 11.14           | 11±1                | 12            | 15.849 | 1.29    | 1.346   | 0.0042            | 1                    |
| 2452                |            | 11.44           | 11±1                | 12            | 15.849 | 1.29    | 1.346   | 0.0042            | 1                    |

According to KDB 447498, no stand-alone required for WIFI antenna, and no simultaneous SAR measurement is required.

\*\*\* End of Report \*\*\*