

RF Exposure Report

FCC ID: 2BL2W-KT-P11

Report No. : SSP24100289-2E

Applicant : SHENZHEN KAIDI SENTAI Technology CO.,LTD

Product Name : Surveillance Camera

Model Name : Model: KT-P11

Test Standard : FCC CFR 47 PART 1.1307(b)

Date of Issue : 2024-11-15



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen,
Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

| | |
|--|---|
| Applicant: | SHENZHEN KAIDI SENTAI Technology CO.,LTD 1603, No.8, East Seventh Lane, Lifeng Road, Qiaotou Village, Fuyong Street, Address of Applicant.....: Bao'an District, Shenzhen, China |
| Manufacturer: | SHENZHEN KAIDI SENTAI Technology CO.,LTD 1603, No.8, East Seventh Lane, Lifeng Road, Qiaotou Village, Fuyong Street, Address of Manufacturer.....: Bao'an District, Shenzhen, China |
| Product Name: | Surveillance Camera |
| Brand Name: | - |
| Main Model: | KT-P11 |
| Series Models: | See section 1.1 (Page 5) |
| Test Standard: | FCC CFR 47 PART 1.1307(b) KDB 447498 D01 v06 |
| Date of Test | 2024-10-31 to 2024-11-04 |
| Test Result: | PASS |
| Tested By | <u>Walker Wu</u> (Walker Wu) |
| Reviewed By: | <u>Lieber Ouyang</u> (Lieber Ouyang) |
| Authorized Signatory: | <u>Lahm Peng</u> (Lahm Peng) |
| <p>Note : This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.</p> | |



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Revision History

| Revision | Issue Date | Description | Revised By |
|----------|------------|-----------------|------------|
| V1.0 | 2024-11-15 | Initial Release | Lahm Peng |
| | | | |
| | | | |
| | | | |
| | | | |

1. General Information

1.1 Product Information

| | |
|---|--|
| Product Name: | Surveillance Camera |
| Trade Name: | - |
| Main Model: | KT-P11 |
| Series Models: | KT-P11, KT-P12, KT-P13, KT-P14, KT-P15, KT-A7, KT-A8, KT-A9, KT-A10, KT-A11, KT-H011, KT-H012, KT-H013, KT-H014, KT-H015, KT-F01A, KT-F02A, KT-F03A, KT-F04A, KT-F05A, KT-G08H, KT-G09H, KT-G10H, KT-G11H, KT-G12H, KT-X10, KT-X11, KT-X12, KT-X13, KT-X14 |
| Rated Voltage: | DC 12V/2A |
| Battery: | - |
| Test Sample No: | SSP24100289-1 |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Note 1: The test data is gathered from a production sample, provided by the manufacturer. | |
| Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer. | |

| Wireless Specification | |
|------------------------|--|
| Wireless Standard: | 802.11b/g/n |
| Operating Frequency: | 2412MHz ~ 2462MHz for 802.11b/g/n(HT20) 2422MHz ~ 2452MHz for 802.11n(HT40) |
| RF Output Power: | 10.14dBm |
| Antenna Gain: | 0dBi |
| Type of Antenna: | PCB Antenna |
| Type of Device: | <input type="checkbox"/> Portable Device <input checked="" type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device |

1.2 Test Facilities

| | |
|--|---|
| Laboratory Name: | Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China |
| CNAS Laboratory No.: | L18863 |
| A2LA Certificate No.: | 6893.01 |
| FCC Registration No: | 583813 |
| ISED Registration No.: | CN0164 |
| All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China. | |

2. RF Exposure

2.1 Standard and Limit

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 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 |

f = frequency in MHz

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

Where

P_d = power density in mW/cm², P_{out} = 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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

2.2 Test Data and Results

For 2.4G WiFi

| Mode | Frequency (MHz) | Output power to antenna (dBm) | Tune-up Power(dBm) | Max Tune-up Power(dBm) | Output power to antenna (mW) | Power Density at R=20cm (mW/cm2) | Limit (mW/cm2) | Result |
|---------|--------------------|---|-----------------------|------------------------------|--|---|-------------------|--------|
| 802.11b | 2412 | 10.14 | 10(±1) | 11 | 12.59 | 0.0025 | 1.0 | PASS |

Remark: antenna gain=0dBi