



Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

RF Exposure MPE

Report Reference No.....: CTA25110401604

FCC ID.....: 2B06V-KI-D086L

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Date of issue.....: Dec. 02, 2025

Testing Laboratory Name: Shenzhen CTA Testing Technology Co., Ltd.

Address.....: Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name: SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.

Address.....: 1ST FLOOR, BUILDING 12TH, HONGFA INDUSTRIAL PARK, NO.91 TANGTOU RD, SHIYAN STREET, BAOAN, SHENZHEN, GUANGDONG, China

Standard: 47CFR §1.1310
47CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06

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Test item description.....: Interactive intelligent panel

Trade Mark: N/A

Manufacturer.....: SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.

Model/Type reference.....: KI-D086L

Listed Models.....: KI-D055L, KI-D065L, KI-D075L

Rating: AC 120V, 50/60Hz

Result.....: PASS

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TEST REPORT

Equipment under Test : Interactive intelligent panel

Model /Type : KI-D086L

Listed Models : KI-D055L, KI-D065L, KI-D075L

Model difference : The PCB board, circuit, structure and internal of these models are the same, Only model number, appearance, screen size are different for these model.

Applicant : **SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.**

Address : 1ST FLOOR, BUILDING 12TH, HONGFA INDUSTRIAL PARK, NO.91
TANGTOU RD, SHIYAN STREET, BAOAN, SHENZHEN,
GUANGDONG, China

Manufacturer : **SHENZHEN KINGIMAGE TECHNOLOGY CO.,LTD.**

Address : 1ST FLOOR, BUILDING 12TH, HONGFA INDUSTRIAL PARK, NO.91
TANGTOU RD, SHIYAN STREET, BAOAN, SHENZHEN,
GUANGDONG, China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Device, RF Exposure, Equipment Authorization Procedures.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices

2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Nov. 04, 2025
Testing commenced on	:	Nov. 04, 2025
Testing concluded on	:	Dec. 02, 2025

2.2 Product Description

Product Name:	Interactive intelligent panel			
Model/Type reference:	KI-D086L			
Power supply:	AC 120V, 50/60Hz			
Hardware version:	V1.0			
Software version:	V1.0			
Testing sample ID:	CTA251104016-1# (Engineer sample) CTA251104016-2# (Normal sample)			
BLE				
Modulation:	GFSK			
Operation frequency:	2402MHz to 2480MHz			
Channel number:	40			
Channel separation:	2 MHz			
Bit Rate of Transmitter:	1Mbps			
Antenna type:	External antenna			
Antenna gain:	2.0 dBi			
2.4GWIFI :				
Supported type:	802.11b/802.11g/802.11n/ax(HT20)/ 802.11n/ax(HT40)			
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20)/ 802.11n(HT40): OFDM 802.11ax(HT20)/ 802.11ax(HT40): OFDMA			
Operation frequency:	802.11b/802.11g/802.11n/ax(HT20): 2412MHz~2462MHz 802.11n/ax(HT40): 2422MHz~2452MHz			
Channel number:	802.11b/802.11g/802.11n/ax(HT20): 11 802.11n/ax(HT40):7			
Channel separation:	5MHz			
Antenna type:	External antenna			
Antenna gain:	2.0 dBi for Ant 1&Ant 2			
5GWIFI				
Supported type:	20MHz system	40MHz system	80MHz system	160MHz system
	802.11a 802.11n	802.11n 802.11ac	802.11ac	N/A

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	802.11ac			
Operation frequency:	5180MHz-5240MHz 5745MHz-5825MHz	5190MHz- 5230MHz 5755MHz- 5795MHz	5210MHz 5775MHz	N/A
Modulation:	OFDM	OFDM	OFDM	N/A
Channel number:	9	4	2	N/A
Channel separation:	20MHz	40MHz	80MHz	N/A
Antenna type:	External antenna			
Antenna gain:	2.02 dBi for 5180-5240MHz for Ant 1&Ant 2 2.05 dBi for 5745-5825MHz for Ant 1&Ant 2			

2.3 Special Accessories

The following is the EUT test of the auxiliary equipment provided by the laboratory:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by
/	/	/	/	/	/

2.4 Modifications

No modifications were implemented to meet testing criteria.

3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community,
Fuhai Street, Bao'an District, Shenzhen, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 517856 Designation Number: CN1318

Shenzhen CTA Testing Technology Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6534.01

Shenzhen CTA Testing Technology Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

ISED#: 27890 CAB identifier: CN0127

Shenzhen CTA Testing Technology Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

3.3 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen CTA Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen CTA Testing Technology Co., Ltd. :

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	9KHz~30MHz	3.02 dB	(1)
Radiated Emission	30~1000MHz	4.06 dB	(1)
Radiated Emission	1~18GHz	5.14 dB	(1)
Radiated Emission	18-40GHz	5.38 dB	(1)
Conducted Disturbance	0.15~30MHz	2.14 dB	(1)
Output Peak power	30MHz~18GHz	0.55 dB	(1)
Power spectral density	/	0.57 dB	(1)
Spectrum bandwidth	/	1.1%	(1)
Radiated spurious emission (30MHz-1GHz)	30~1000MHz	4.10 dB	(1)
Radiated spurious emission (1GHz-18GHz)	1~18GHz	4.32 dB	(1)
Radiated spurious emission (18GHz-40GHz)	18-40GHz	5.54 dB	(1)
Time	/	±2%	(1)

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4 Test limit

4.1 Requirement

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
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

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100) *	30
3.0 – 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

*=Plane-wave equivalent power density

4.2 MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

4.3 Conducted Power Results

Type	Channel	Output power (dBm)
GFSK 1Mbps	00	0.12
	19	-0.26
	39	-0.28

ANT1

Type	Channel	Output power PK (dBm)
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802.11b	01	14.64
	06	15.11
	11	14.62
802.11g	01	12.63
	06	13.32
	11	13.33
802.11n(HT20)	01	12.88
	06	13.55
	11	13.49
802.11n(HT40)	03	11.96
	06	12.42
	09	12.57
802.11ax(HT20)	01	12.76
	06	13.62
	11	13.50
802.11ax(HT40)	03	12.05
	06	12.47
	09	12.70

ANT2

Type	Channel	Output power PK (dBm)
802.11b	01	14.01
	06	14.79
	11	14.70
802.11g	01	12.95
	06	13.71
	11	13.70
802.11n(HT20)	01	13.34
	06	14.17
	11	14.01
802.11n(HT40)	03	12.58
	06	13.14
	09	13.22
802.11ax(HT20)	01	13.27
	06	14.12
	11	13.98
802.11ax(HT40)	03	12.73
	06	13.10

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ANT1

Test Mode	Antenna	Freq(MHz)	Result [dBm]
11A	Ant1	5180	12.55
		5220	12.22
		5240	12.00
		5745	11.75
		5785	11.49
		5825	11.35
11N20SISO	Ant1	5180	12.45
		5220	12.13
		5240	11.92
		5745	11.80
		5785	11.46
		5825	11.33
11N40SISO	Ant1	5190	12.42
		5230	12.13
		5755	11.87
		5795	11.47
11AC20SISO	Ant1	5180	12.50
		5220	12.18
		5240	11.95
		5745	11.78
		5785	11.46
		5825	11.34
11AC40SISO	Ant1	5190	12.44
		5230	12.09
		5755	11.88
		5795	11.51
11AC80SISO	Ant1	5210	12.67
		5775	11.96

ANT2

Test Mode	Antenna	Freq(MHz)	Result [dBm]
11A	Ant1	5180	12.56
		5220	12.37
		5240	12.18
		5745	11.91
		5785	11.53
		5825	11.40
11N20SISO	Ant1	5180	12.48
		5220	12.23
		5240	12.05
		5745	11.92
		5785	11.53
		5825	11.29
11N40SISO	Ant1	5190	12.52
		5230	12.33
		5755	12.01
		5795	11.64
11AC20SISO	Ant1	5180	12.53
		5220	12.31
		5240	12.05
		5745	11.97
		5785	11.54
		5825	11.33
11AC40SISO	Ant1	5190	12.57
		5230	12.32
		5755	12.05
		5795	11.56
11AC80SISO	Ant1	5210	12.84
		5775	11.99

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4.4 Manufacturing tolerance

Mode		Max. Peak Conducted Output Power (dBm)	Max. tune-up
BLE		0.12	0.0 ± 1
2.4GWIFI	ANT1	15.11	15.0 ± 1
	ANT2	14.79	14.0 ± 1
Mode		Max. Average Conducted Output Power (dBm)	Max. tune-up
5.2GWIFI	ANT1	12.67	12.0 ± 1
	ANT2	12.84	12.0 ± 1
5.8GWIFI	ANT1	11.96	12.0 ± 1
	ANT2	12.05	12.0 ± 1

4.5 Standalone MPE Result

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, $r = 20\text{cm}$, as well as the gain of the used antenna is refer to section 2.2, the RF power density can be obtained.

Modulation Type	Output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm^2)	MPE Limits (mW/cm^2)
	dBm	mW				
BLE	1.0	1.2589	2.00	1.5849	0.0004	1.0000
2.4GWIFI	ANT1	16.0	39.8107	2.00	1.5849	0.0126
	ANT2	15.0	31.6228	2.00	1.5849	0.0100
5.2GWIFI	ANT1	13.0	19.9526	2.02	1.5922	0.0063
	ANT2	13.0	19.9526	2.02	1.5922	0.0063
5.8GWIFI	ANT1	13.0	19.9526	2.05	1.6032	0.0064
	ANT2	13.0	19.9526	2.05	1.6032	0.0064

Remark:

1. Output power (Peak) including turn-up tolerance;
2. MPE evaluate distance is 20cm from user manual provide by manufacturer.

4.6 Simultaneous Transmission for MPE Result

2.4GWIFI ANT1 MPE (Ratio)	2.4GWIFI ANT2 MPE (Ratio)	5.8GWIFI ANT1 MPE (Ratio)	5.8GWIFI ANT2 MPE (Ratio)	simultaneous MPE (Ratio)	MPE Limits (Ratio)
0.0126	0.0100	0.0064	0.0064	0.0354	1.0000

5 Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device Threshold per KDB 447498 D01v06

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

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