

# RF EXPOSURE REPORT

**FCC ID: 2BNK2-XK001-XXX**

Test Report No.....: RF250509006-01-002

Product(s) Name.....: 4G Outdoor Smart PTZ Camera

Model(s).....: xk001-E10

Trade Mark.....: xkbox

Applicant.....: Hangzhou Kedang Technology Co., LTD.

Address.....: Kedang Building, No. 666, Fuxian Road, Yinhu Street,  
FuyangDistrict, Hangzhou


Receipt Date.....: 2025.05.27

Test Date.....: 2025.05.30~2025.06.16

Issued Date.....: 2025.06.17

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1  
FCC Title 47 Part 2.1091  
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

## History of this test report

Original Report Issue Date: 2025.06.17

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

## 1. MPE CALCULATION METHOD

### Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

### Calculation Method of RF Safety Distance:

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

where:

S = power density

P = power input to the 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

**Table for Filed Antenna**

Operating Mode	Antenna gain	Antenna Type
LTE Band 2	2.28 dBi	External Antenna
LTE Band 4	2.28 dBi	External Antenna
LTE Band 5	1.38 dBi	External Antenna
LTE Band 12	1.38 dBi	External Antenna
LTE Band 13	1.38 dBi	External Antenna
LTE Band 66	2.28 dBi	External Antenna
LTE Band 71	1.38 dBi	External Antenna

## 2. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Tune-up power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm <sup>2</sup> )	
LTE Band 2	1850-1910	23.0	2.28	25.28	337.29	1	0.067
LTE Band 4	1710-1755	23.0	2.28	25.28	337.29	1	0.067
LTE Band 5	824-849	23.0	1.38	24.38	274.16	0.549	0.055
LTE Band 12	699-716	23.0	1.38	24.38	274.16	0.466	0.055
LTE Band 13	777-787	23.0	1.38	24.38	274.16	0.518	0.055
LTE Band 66	1710-1780	23.0	2.28	25.28	337.29	1	0.067
LTE Band 71	663 - 698	23.0	1.38	24.38	274.16	0.442	0.055

Note: 1. The calculated distance is 20 cm.

2. This device only incorporates one WWAN transmitter, therefore simultaneous assessment is not required.

Result: Complies

## Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

## Shenzhen Haiyun Standard Technical Co., Ltd.

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(END OF REPORT)