

FCC RF EXPOSURE REPORT

FCC ID: 2BNK2-XK001

Test Report No.....: RF250107002-01-003

Product(s) Name.....: Smart Security Camera Indoor

Model(s).....: xk001-D10

Trade Mark.....: xkbox

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

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


Receipt Date.....: 2025.01.20

Test Date.....: 2025.01.21~2025.02.22

Issued Date.....: 2025.02.22

Standards.....: CFR47 FCC Part 1: Section 1.1310; CFR47 FCC Part 2: Section 2.1091
FCC KDB Publication 447498 D01v06

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

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

History of this test report

Original Report Issue Date: 2025.02.22

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

Attachment No.	Issue Date	Description

1.. TEST FACILITY

Company:	Shenzhen Haiyun Standard Technical CO., Ltd.
Address:	No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China
CNAS Registration Number:	CNAS L18252
CAB identifier:	CN0145
A2LA Certificate Number:	6823.01
Telephone:	0755-26024411

2.. MPE CALCULATION METHOD

➤ Product Classification

This device defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons.

➤ Radio Frequency Exposure Limit

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

➤ Radio Frequency Exposure Calculation Formula

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

where: S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

or:

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

where: EIRP = equivalent (or effective) isotropically radiated power

➤ **Table for Filed Antenna**

For BLE & 2.4G WIFI

Ant.	Brand	Antenna Type	Connector	Gain (dBi)
1	N/A	PIFA	N/A	3.69

3.. TEST RESULTS

:

Mode	*Measured RF Output Power (dBm)	Antenna Gain (dBi)	MPE Value (mW/cm ²)	FCC Limit (mW/cm ²)
BLE	1.07	3.69	0.0006	1.0
2.4G WIFI	16.45	3.69	0.0205	1.0

Note:

Note: 1. The calculated distance is 20 cm.

Note: 2. the wifi function can transmit at the same time with the BLE function.

$$\text{The ratio} = \text{MPE}_{2.4\text{G WIFI}} / \text{limit} + \text{MPE}_{\text{BLE}} / \text{limit} = 0.0006/1 + 0.0205/1 = 0.0211 < 1.0$$

As the sum of MPE ratios for all simultaneous transmitting antennas is ≤ 1.0 , simultaneous transmission MPE test exclusion will be applied.

➤ **Conclusion**

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology 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 Technology Co., Ltd.

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(END OF REPORT)