

FCC TEST REPORT

Report No.....: AB25100049FW01

FCC ID.....: **2AADK-V8**

Applicant.....: SHENZHEN YUWEI INFORMATION AND TECHNOLOGY
DEVELOPMENT Co.,Ltd

Address.....: Room 901, Block 2, New Generation Industrial Park, No.136,
Zhongkang Road, Meidong Community,Meilin, Futian District,
Shenzhen

Manufacturer.....: SHENZHEN YUWEI INFORMATION AND TECHNOLOGY
DEVELOPMENT Co.,Ltd

Address.....: Room 901, Block 2, New Generation Industrial Park, No.136,
Zhongkang Road, Meidong Community,Meilin, Futian District,
Shenzhen

Product Name.....: Intelligent Video Terminal

Trade Mark.....: /

Test Model.....: V8

Additional Model(s).....: /

Standard.....: FCC Part 2 (Section 2.1091);KDB 447498 D01;IEEE C95.1

Date of Receipt.....: 2025.10.21

Date of Issue.....: 2025.11.28

Test Result.....: Pass

Compiled by: Huaijie Li
(Printed Name + Signature)



Supervised by: David Huang
(Printed Name + Signature)



Approved by: Jay Liu
(Printed Name + Signature)



Testing Laboratory Name.....: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address.....: 101, Building B, Tuori New Energy Industrial Park, High-tech Park,
Tianliao Community, Yutang Street, Guangming District, Shenzhen
City, Guangdong Province, China

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FCC TEST REPORT

EUT.....	:	Intelligent Video Terminal
Test Model.....	:	V8
Applicant.....	:	SHENZHEN YUWEI INFORMATION AND TECHNOLOGY DEVELOPMENT Co.,Ltd
Address.....	:	Room 901, Block 2, New Generation Industrial Park, No.136, Zhongkang Road, Meidong Community, Meilin, Futian District, Shenzhen
Manufacturer.....	:	SHENZHEN YUWEI INFORMATION AND TECHNOLOGY DEVELOPMENT Co.,Ltd
Address.....	:	Room 901, Block 2, New Generation Industrial Park, No.136, Zhongkang Road, Meidong Community, Meilin, Futian District, Shenzhen

Test Result	Positive
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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.

REPORT VERSION

Version No.	Issue Date	Description
01	2025.11.28	Initial Issue

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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Intelligent Video Terminal	
Trade Mark:	/	
Test Model:	V8	
Additional Model(s):	/	
Model Difference:	/	
Hardware Version:	V8N-P, V8N-M	
Software Version:	V8.30	
Power Supply:	DC 12V/24V,0.6A/0.3A 7.2W	
Test Sample(s) Number:	AB25100049-01 (Engineer Sample) AB25100049-02 (Normal Sample)	
2.4G WIFI		
Radio Specification:	IEEE 802.11b/g/n	
Frequency Range:	2412MHz~2462MHz for IEEE 802.11b/g/n(HT20) 2422MHz~2452MHz for IEEE 802.11n(HT40)	
Modulation Type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM (64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM (64-QAM, 16-QAM, QPSK, BPSK)	
Channel Spacing:	5MHz	
Channel Number(s):	11 Channels for IEEE 802.11b/g/n(HT20) 7 Channels for IEEE 802.11n(HT40)	
Antenna Type:	FPC Antenna	
Antenna Gain:	1.02dBi	
WCDMA		
Support Networks:	WCDMA, HSDPA, HSUPA	
	WCDMA Band II:	1852.4MHz~1907.6MHz
	WCDMA Band IV:	1712.4MHz~1752.6MHz
	WCDMA Band V:	826.4MHz~846.6MHz
	WCDMA Band:	BPSK
	HSDPA:	QPSK
	HSUPA:	QPSK
UMTS Power Class:	Class 3	
Antenna Type:	FPC Antenna	
	WCDMA Band II:	2.19dBi (Max.)
	WCDMA Band IV:	1.65dBi (Max.)
	WCDMA Band V:	1.66dBi (Max.)
LTE		
Support Networks:	Band 2 / 4 / 5 / 12 / 13 / 14 / 66/71	
Frequency Range:	Band 2	1850MHz~1910MHz
	Band 4	1710MHz~1755MHz
	Band 5	824MHz~849MHz
	Band 12	699MHz~716MHz
	Band 13	777MHz~787MHz
	Band 14	788MHz~798MHz

	Band 66	1710MHz–1780MHz
	Band 71	663MHz–698MHz
Modulation Type:	QPSK, 16QAM	
Channel Bandwidth:	Band 2	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 4	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 5	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 12	1.4MHz, 3MHz, 5MHz, 10MHz
	Band 13	5MHz, 10MHz
	Band 14	5MHz, 10MHz
	Band 66	1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
	Band 71	5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	FPC Antenna	
Antenna Gain:	Band 2	2.19 dBi
	Band 4	1.27 dBi
	Band 5	1.66 dBi
	Band 12	-0.02 dBi
	Band 13	-0.93 dBi
	Band 14	-0.93 dBi
	Band 66	1.66 dBi
	Band 71	-0.23 dBi

1.2. DESCRIPTION OF TEST FACILITY

Test Lab: Aibo Standard Technology (Shenzhen) Co., Ltd.

Address: 101, Building B, Tuori New Energy Industrial Park, High-tech Park, Tianliao Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, China

Tel.: +(86) 0755 85250797

E-mail: aibo@aibonorm.com

Website: www.aibonorm.com

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

A2LA-Lab Certificate No.: 7514.01

Aibo Standard Technology (Shenzhen) Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1411

Test Firm Registration Number: 567066

ISED Wireless Device Testing Laboratories

Company Number: 33924

CAB identifier: CN0185

2. RF EXPOSURE EVALUATION

2.1 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 Evaluation Result

Mode	Output power to antenna (dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm ²)	Limit (mW/cm ²)	Result
2.4G WIFI	18.49	89.331	0.017772	1.0	PASS
WCDMA band 2	23.23	364.754	0.072565	1.0	PASS
WCDMA band 4	23.14	279.254	0.055556	1.0	PASS
WCDMA band 5	22.91	165.196	0.032865	0.5576	PASS
LTE band 2	23.05	349.945	0.069619	1.0	PASS
LTE band 4	20.58	154.882	0.030813	1.0	PASS
LTE band 5	24.85	258.226	0.051372	0.5576	PASS
LTE band 12	23.35	215.278	0.042828	0.4717	PASS
LTE band 13	24.35	219.786	0.043725	0.5213	PASS
LTE band 14	23.74	190.985	0.037995	0.5287	PASS
LTE band 66	21.04	173.380	0.034493	1.0	PASS
LTE band 71	22.90	184.927	0.036790	0.4537	PASS

Results for transmit simultaneously

No.	Configurations	Maximum MPE Value mW/cm ²		Transmit simultaneously	Limits
1	2.4G WIFI+ WCDMA band 2	0.017772	0.072565	0.090337	1
2	2.4G WIFI+ LTE band 2	0.017772	0.069619	0.087391	1

At the transmit simultaneously calculation method is as follows:

Transmit simultaneously MPE = Σ of MPE ratios²

MPE ratios = Field strengths or power density / MPE limit at the test frequency

So a SAR test is not required

*****THE END*****